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PRECAUTION

PRECAUTIONS

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

INFOID:0000000013522417

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 dual stage front air bag modules. The SRS system may only deploy one front air bag, depending on the severity of a collision and whether the front passenger seat is occupied. Information necessary to service the system safely is included in the SR and SB section 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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, 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 SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

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

Cautions in Removing Battery Terminal and AV Control Unit (Models with AV Control Unit)

INFOID:0000000012849374

CAUTION:

Remove battery terminal and AV control unit 30 seconds or more after turning the ignition switch OFF.

NOTE:

After the ignition switch is turned OFF, the AV control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

Precaution for Trouble Diagnosis

INFOID:0000000012849375

AV COMMUNICATION SYSTEM

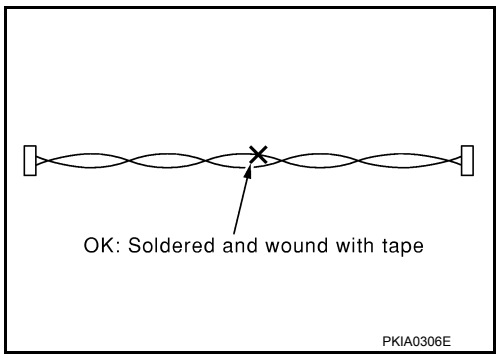
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

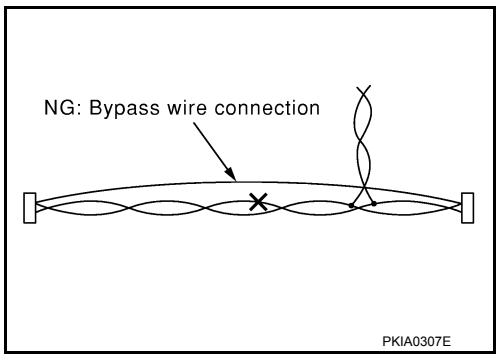
INFOID:0000000012849376

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.)



Precaution for Work

INFOID:0000000012849377

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

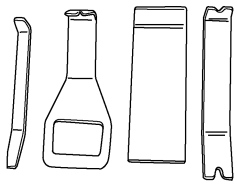
PREPARATION

PREPARATION

Special Service Tool

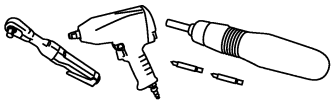
INFOID:0000000012849378

The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tools

INFOID:0000000012849379

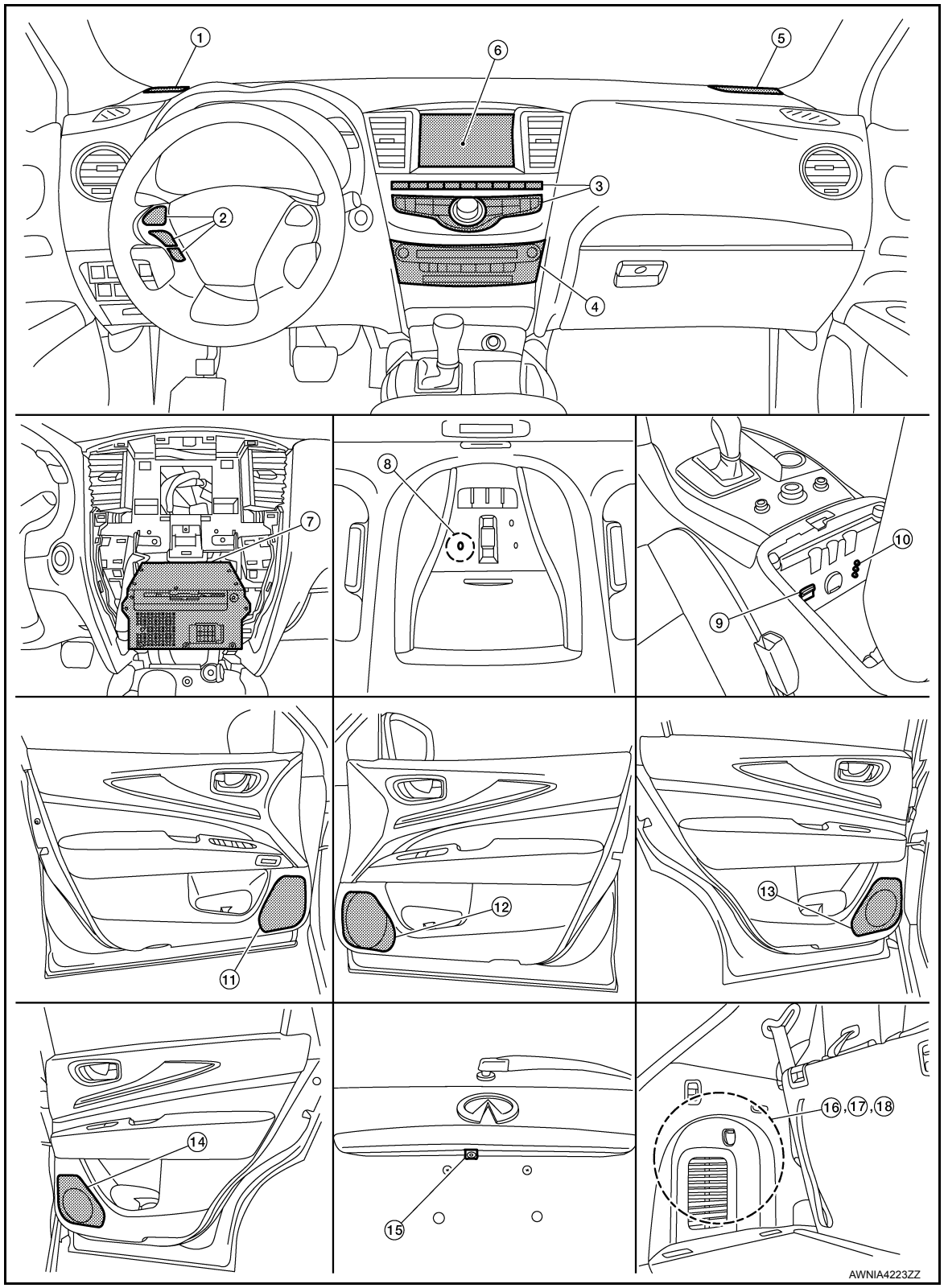
Tool name	Description
Power tools  PIIB1407E	Loosening nuts, screws and bolts

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000012849380



1. Instrument panel tweeter LH
2. Steering switch
3. Multifunction switch
4. Preset switch
5. Instrument panel tweeter RH
6. Display unit
7. AV control unit (view with center stack removed)
8. Microphone
9. USB interface
10. Front auxiliary input jacks
11. Front door speaker LH
12. Front door speaker RH
13. Rear door speaker LH
14. Rear door speaker RH
15. Rear view camera
16. Bluetooth® control unit
17. Satellite radio tuner
18. Bluetooth® antenna

Component Description

INFOID:0000000012849381

Part name	Description
AV control unit	• Master unit of MULTI AV system. • AV control unit includes audio, USB connection and vehicle status functions. • Connected to MULTI AV system control units via AV communication. • Connected to other vehicle control units via CAN communication to obtain necessary information for vehicle information function. • Receives steering angle signal via CAN communication from steering angle sensor and controls an expected course line during rear view monitor operation. • Inputs signals for driving status recognition (vehicle speed, reverse and parking brake). • TEL voice signal and voice guidance signal are input from Bluetooth® control unit. • Camera image signal is received and transmitted to display unit.
Display unit	• Display image is controlled by AV control unit via serial communication. • Receives power (signal VCC and inverter VCC) from AV control unit. • RGB image signals (RGB image, RGB area and RGB synchronizing) are input from AV control unit. • Composite image signals are input from AV control unit. • Synchronizing signals (HP, VP) are output to AV control unit.
Front door speaker	Outputs low and mid range sounds.
Instrument panel tweeter	Outputs high range sounds.
Rear door speaker	Outputs low, mid and high range sounds.
Multifunction switch	• Operation panel is equipped with the centralized switch where audio and air conditioner, etc. operations are integrated. • Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication. • The disk ejection operating signal is performed by hardwire.
Preset switch	• Operation panel is equipped with the centralized switch where audio operations are integrated. • Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication.
Rear view camera	• Camera power supply is input from AV control unit. • Vehicle rear view image is transmitted to display unit via AV control unit.
Steering angle sensor	Connected to AV control unit via CAN communication and transmits steering angle sensor signal.
Steering switch	• Operations for audio, hands-free phone and voice recognition are possible. • Steering switch signal (operation signal) is output to AV control unit.
Microphone	• Used for hands-free phone and voice recognition operation. • Microphone signal is transmitted to Bluetooth® control unit. • Power (Microphone VCC) is supplied from Bluetooth® control unit.
Antenna amp.	• Radio signal received by window antenna is amplified and transmitted to AV control unit. • Power (antenna amp. ON signal) is supplied from AV control unit.
Satellite radio tuner	• Inputs satellite radio signal from satellite radio antenna and outputs sound signal to AV control unit. • Controlled via serial communication (communication signal and request signal) by AV control unit.

Part name	Description
Satellite radio antenna	Satellite radio signal is received and transmitted to satellite radio tuner.
Bluetooth® control unit	• Inputs TEL voice signal from Bluetooth® antenna and outputs it to AV control unit. • Controlled via AV communication by AV control unit.
Bluetooth® antenna	Receives TEL voice signal and outputs it to Bluetooth® control unit.
USB connector	USB sound and data input signals are transmitted to AV control unit.

SYSTEM
MULTI AV SYSTEM
MULTI AV SYSTEM : System Diagram

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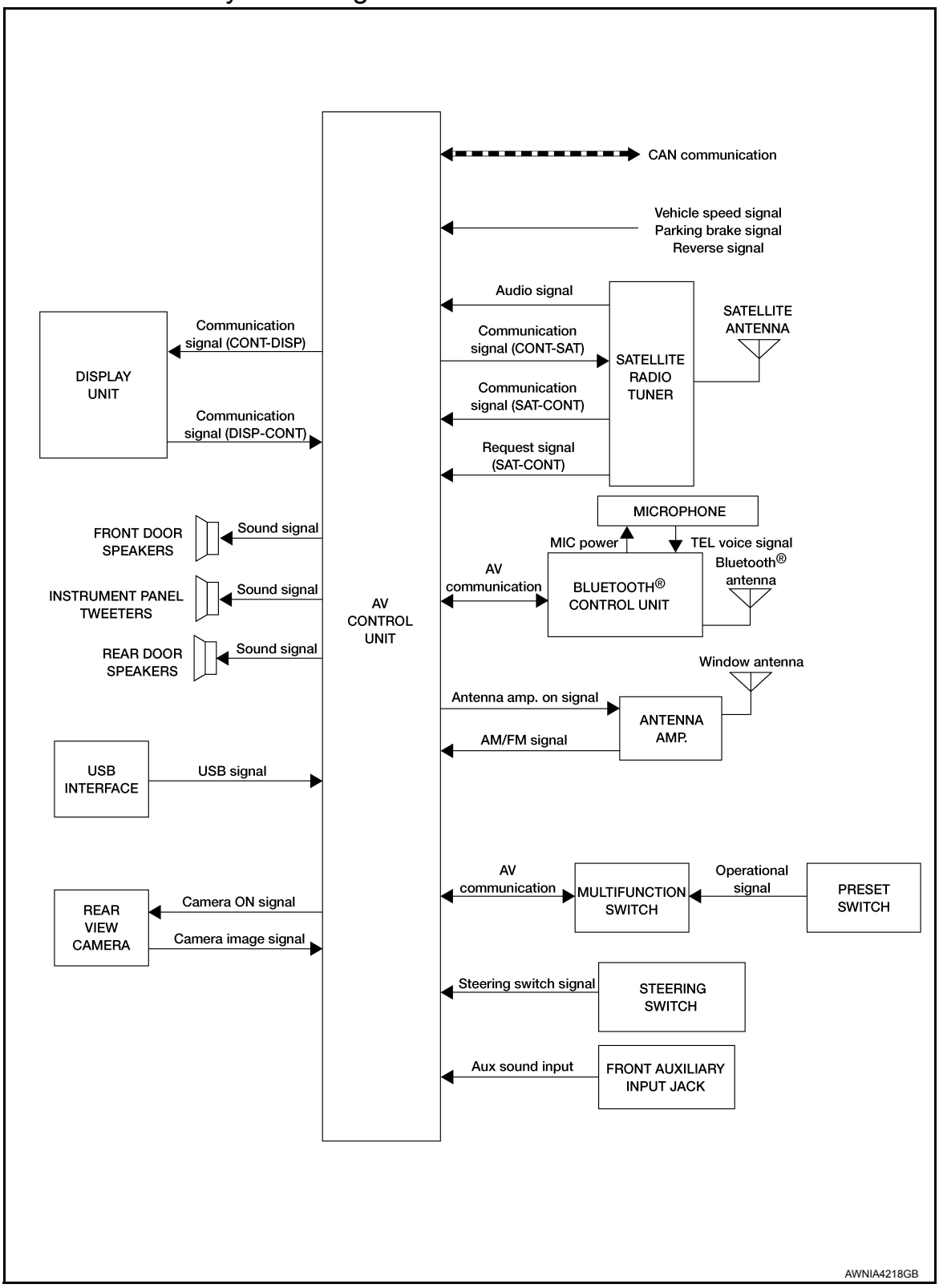


MULTI AV SYSTEM : System Description

INFOID:0000000012849383

AUDIO SYSTEM

The audio system consists of the following components
- AV control unit
- Multifunction switch
- Preset switch
- Display unit
- Steering switch
- Front door speakers
- Instrument panel tweeters
- Rear door speakers
- Window antenna

When the audio system is on, radio signals are received by the window antenna. The AV control unit then sends audio signals to the front door speakers, instrument panel tweeters and rear door speakers.
Refer to Owner's Manual for audio system operating instructions.

SATELLITE RADIO SYSTEM

The satellite radio system consists of the following components
- Satellite antenna
- Satellite radio tuner

When the satellite radio system is on, radio signals are supplied to the satellite radio tuner from the satellite antenna. The satellite radio tuner then sends audio signals to the AV control unit.
Refer to Owner's Manual for satellite radio system operating instructions.

HANDS-FREE PHONE SYSTEM

System Operation

NOTE:

Cellular telephones must have their wireless connection set up (paired) before using the Bluetooth® telephone system.

The Bluetooth® telephone system allows users who have a Bluetooth® cellular telephone to make a wireless connection between their cellular telephone and the Bluetooth® control unit. Hands-free cellular telephone calls can be sent and received. Some Bluetooth® cellular telephones may not be recognized by the Bluetooth® control unit. When a cellular telephone or the Bluetooth® control unit is replaced, the telephone must be paired with the Bluetooth® control unit. Different cellular telephones may have different pairing procedures, refer to the cellular telephone operating manual.

Refer to the Owner's Manual for Bluetooth® telephone system operating instructions.

Bluetooth® Control Unit

When the ignition switch is turned to ACC or ON, the Bluetooth® control unit will power up. During power up, the Bluetooth® control unit is initialized and performs various self-checks. Initialization may take up to 20 seconds. If a phone is present in the vehicle and paired with the Bluetooth® control unit, Nissan Voice Recognition will then become active. Bluetooth® telephone functions can be turned off using the Nissan Voice Recognition system.

Steering Switch

When buttons on the steering switch are pushed, the resistance in steering switch circuit changes, depending on which button is pushed. The Bluetooth® control unit uses this signal to perform various functions while navigating through the voice recognition system.
The following functions can be performed using the steering switch:
- Initiate self-diagnosis of the Bluetooth® telephone system
- Start a voice recognition session
- Answer and end telephone calls
- Adjust the volume of calls

Microphone

The microphone is located in the roof console assembly. The microphone sends a signal to the Bluetooth® control unit. The microphone can be actively tested during self-diagnosis.

AV Control Unit

The AV control unit receives signals from the Bluetooth® control unit and sends audio signals to the speakers.

REAR VIEW CAMERA SYSTEM

When the shift selector is in the R position, the display shows a view to the rear of the vehicle. Lines which indicate the vehicle clearance and distances are also displayed.

SPEED SENSITIVE VOLUME SYSTEM

Volume level of this system goes up and down automatically in proportion to the vehicle speed. The control level can be selected by the customer. Refer to Owner's Manual for operating instructions.

FRONT AUXILIARY INPUT JACKS

- Image and sound can be output from an external device connected to the front auxiliary input jacks.
- AUX image signals are transmitted to each unit as follows:
  - To the display unit via AV control unit.
- AUX sound signals are transmitted to each unit as follows:
  - To each speaker via AV control unit.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Description

INFOID:0000000012849384

The AV control unit on board diagnosis includes the following functions:

- Multifunction switch and preset switch self diagnosis that checks the ON/OFF operation (continuity) of each switch in the multifunction switch and preset switch.
  NOTE:
  The hazard switch and disk eject switch are not included in this operation check.
- AV control unit on board diagnosis performs the following functions listed in the table below:

Mode		Description
Self Diagnosis		• AV control unit diagnosis. • Diagnoses the connections across system components (between AV control unit and each unit).
Confirmation/ Adjustment	Display Diagnosis	• Color tone check using color spectrum bar display and white display. • Light and shade check by gradation bar display.
	Vehicle Signals	Diagnosis of signals can be performed for vehicle speed, parking brake, lights, ignition and reverse.
	Speaker Test	Speaker connection can be confirmed by test tone.
	Error History	• The system malfunction and frequency of past occurrences is displayed. • When malfunctioning item is selected, time and place that the malfunction last occurred are displayed.
	Camera Cont.	• Guiding line position that overlaps rear view camera image can be adjusted. • Configuration stored in the AV control unit can be checked.
	Vehicle CAN Diagnosis	Transmit/receive function of CAN communication can be monitored.
	AV COMM Diagnosis	Communication condition of each unit of Multi AV system can be monitored.
	Delete Unit Connection Log	Erase connection history of unit and error history.
	Initialize Settings	Initializes the AV control unit memory.

Perform CONSULT diagnosis if the AV control unit on board diagnosis does not start, the screen does not display anything, or the multifunction switch and preset switch self diagnosis does not function.

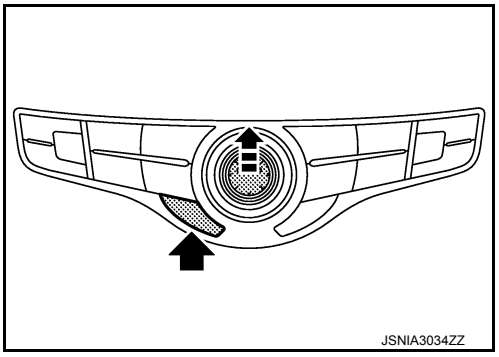
On Board Diagnosis Function

INFOID:0000000012849385

METHOD OF STARTING

Multifunction Switch and Preset Switch Self Diagnosis

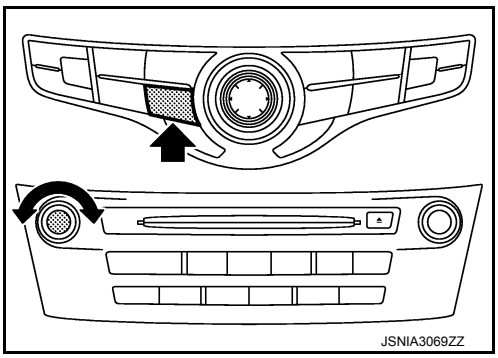
- Press the BACK and UP switches within 10 seconds after turning the ignition switch from OFF to ACC and hold them for 3 seconds or more.
- The buzzer sounds, all indicators of the switches illuminate, and the self-diagnosis mode begins.
- The ON position continuity of each switch can be checked by pressing the switch. The buzzer sounds if continuity is present.
- The self diagnosis mode is canceled when the ignition switch is turned OFF.



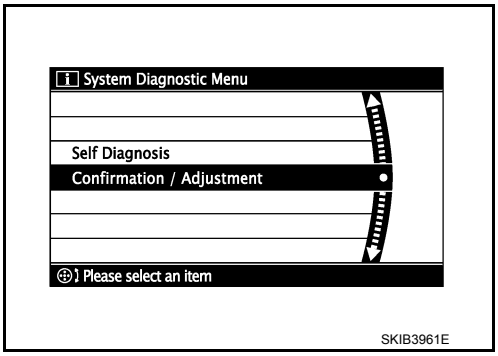
AV Control Unit Self Diagnosis

1. Turn the ignition ON.
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 self-diagnosis mode begins, a short beep will be heard. Shifting from current screen to previous screen is performed by pressing BACK button.



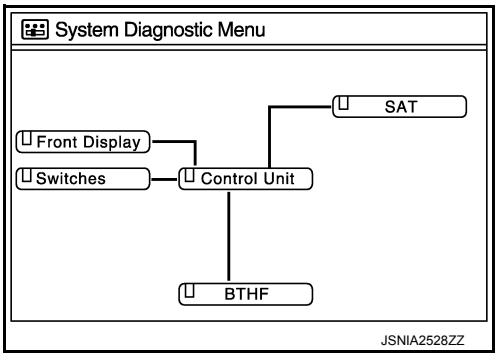
4. The trouble diagnosis initial screen is displayed, and Self Diagnosis or Confirmation/Adjustment can be selected.



SELF DIAGNOSIS MODE

AV Control Unit Self Diagnosis

1. Select Self Diagnosis.
2. Self diagnosis screen is displayed. The bar graph visible in center of screen indicates progress of self diagnosis.
3. Diagnosis results are displayed after self diagnosis is completed. Unit names and connection lines are color coded according to diagnostic results.Control Unit (AV control unit) is displayed in red.

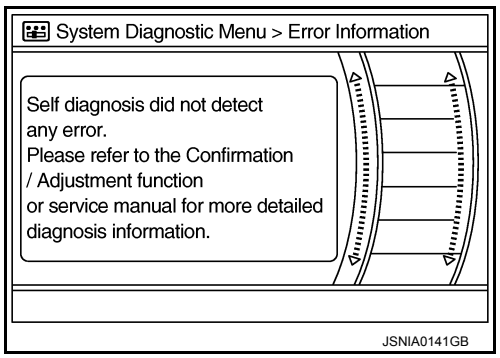


Diagnosis results	Unit	Connection line
Normal	Green	Green
Connection malfunction	Gray	Yellow
Unit malfunction [1]	Red	Green

1: Control Unit (AV control unit) is displayed in red.

- Replace AV control unit if Self Diagnosis did not run because control unit malfunction is indicated. The symptom is AV control unit internal error. Refer to AV-133, "Removal and Installation".
- 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.

4. Comments of self diagnosis results can be viewed in the diagnosis result screen.



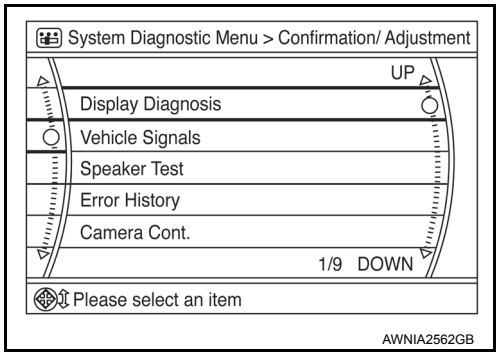
AV Control Unit Self Diagnosis Results

Only Unit Part Is Displayed In Red		
Screen switch	Description	Possible cause
Control unit	Malfunction is detected in AV control unit power supply or ground circuit.	• AV control unit power supply or ground circuits. Refer to AV-90. • If no malfunction is detected in AV control unit power supply and ground circuits, replace AV control unit. Refer to AV-133.

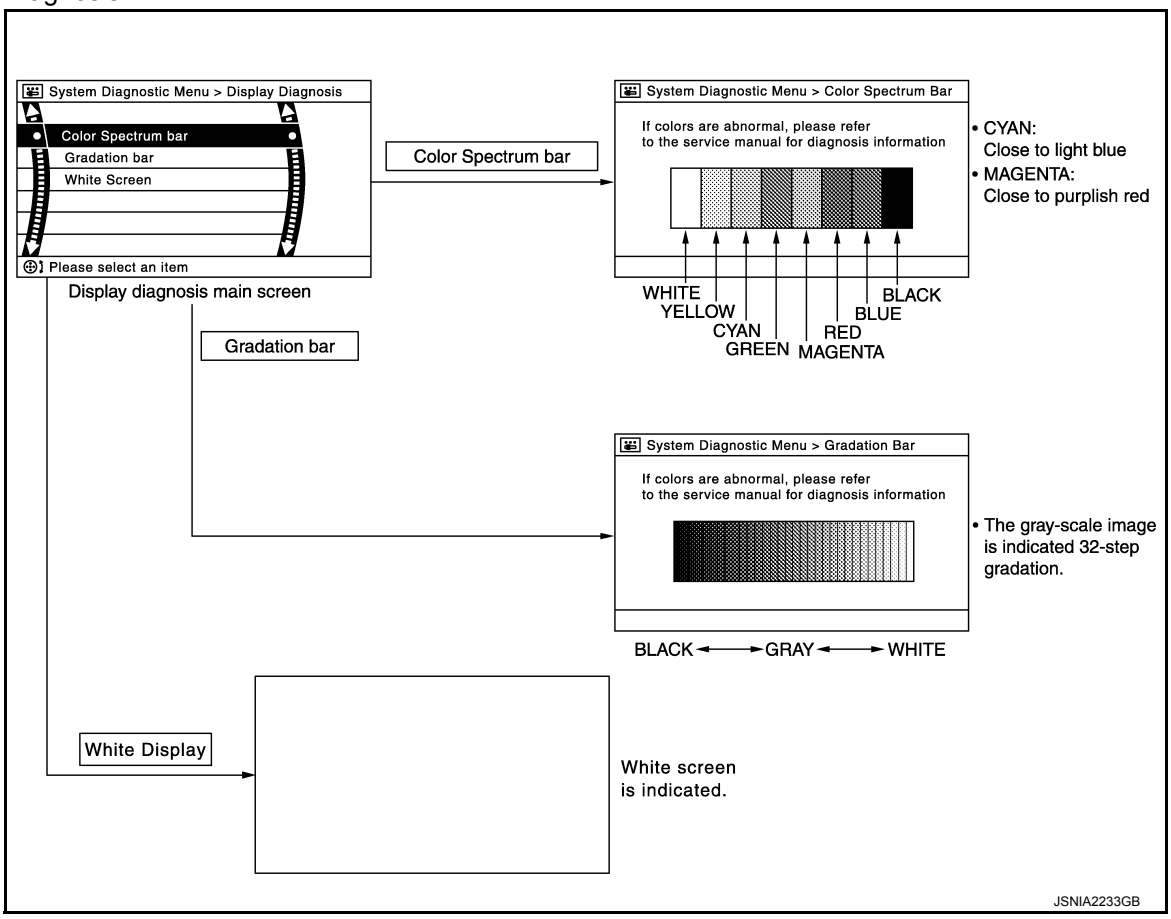
A Connecting Cable Between Units Is Displayed In Yellow		
Area with yellow connection lines	Description	Possible cause
Control unit ⇔ Front Display	Malfunction is detected in serial communication circuits between AV control unit and display unit.	Serial communication circuits between AV control unit and display unit. Refer to AV-84.
Control unit ⇔ SAT	When any of the following is detected: • satellite radio tuner power supply or ground circuit malfunction. • communication circuit malfunction between AV control unit and satellite radio tuner. • request signal circuit malfunction between AV control unit and satellite radio tuner.	• Satellite radio tuner power supply or ground circuits. Refer to AV-92. • Communication circuit between AV control unit and satellite radio tuner. Refer to AV-86. • Request signal circuit between AV control unit and satellite radio tuner. Refer to AV-86.
Control unit ⇔ BTHF	When any of the following is detected: • Bluetooth® control unit power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and Bluetooth® control unit.	• Bluetooth® control unit power supply or ground circuits. Refer to AV-93. • AV communication circuits between AV control unit and Bluetooth® control unit.

AV Control Unit Confirmation/Adjustment

1. Select Confirmation/Adjustment.
2. Select each switch on the Confirmation/Adjustment screen to display the relevant trouble diagnosis screen. Press the BACK switch to return to the initial Confirmation/Adjustment screen.

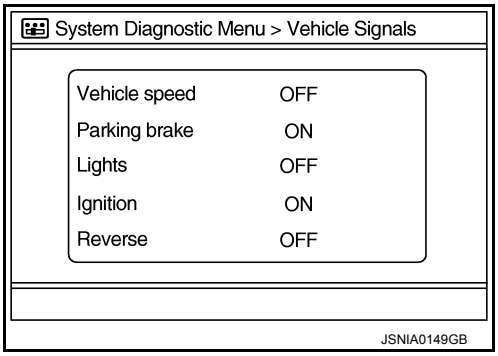


Display Diagnosis



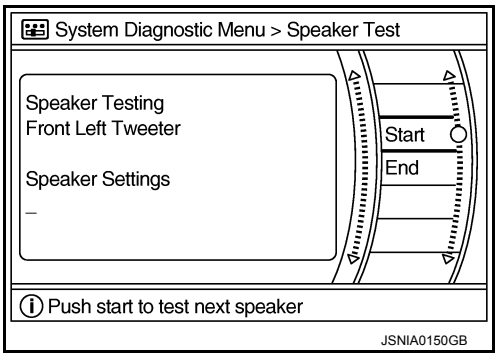
Vehicle Signals

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



Speaker Test

Select Speaker Test to display the Speaker Diagnosis screen. Press Start to generate a test tone in a speaker. Press Start again to generate a test tone in the next speaker. Press End to stop the test tones.



Error History

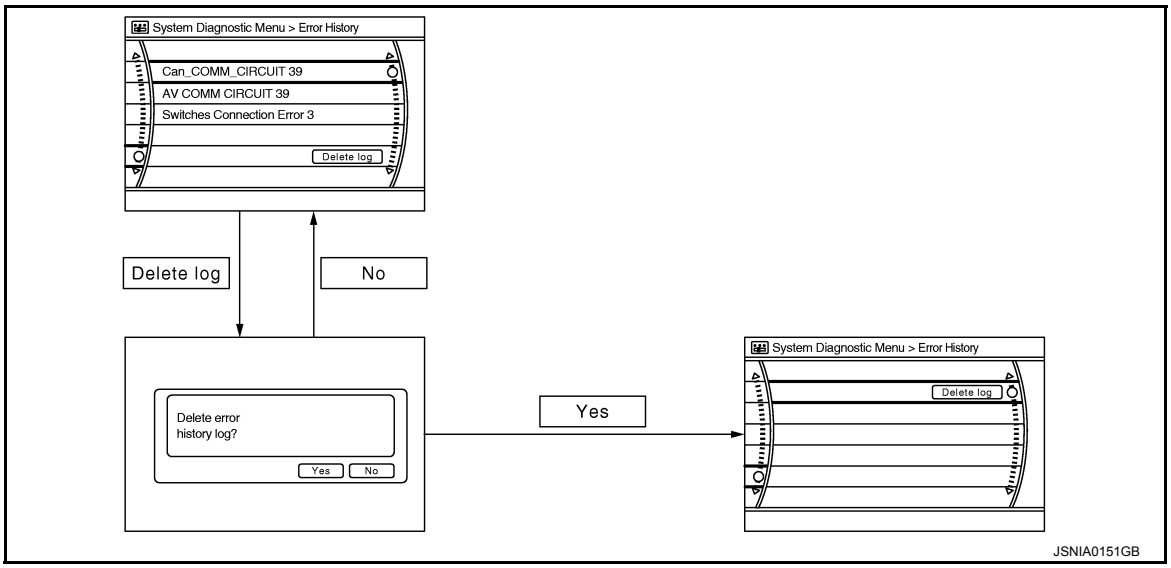
The self diagnosis results are judged depending on whether any error occurs from when Self diagnosis is selected until the self diagnosis results are displayed.

However, the diagnosis results are judged normal if an error has occurred before the ignition switch is turned ON and then no error has occurred until the self
diagnosis start. Check the Error Record to detect any error that may have occurred before the self diagnosis start because of this situation.
The frequency of occurrence is displayed in a count up manner. The actual count up method differs depending on the error item.

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

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

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



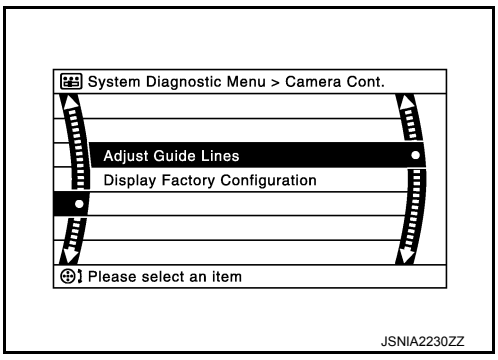
Error item
Some error items may be displayed simultaneously according to the cause. If some error items are displayed simultaneously, the detection of the cause can be performed by the combination of display items

Error item	Description	Possible cause
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT, then repair the malfunctioning components according to diagnosis results. Refer to AV-34
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-133.
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		
Steer. Angle Sensor Calibration	Predictive course line center position adjustment of the steering angle sensor is incomplete.	Adjust the predictive course line center position of the steering angle sensor. Refer to AV-34.

Error item	Description	Possible cause
Display Connection Error	When any of the following is detected: • display unit power supply or ground circuits malfunction. • communication circuit malfunction between AV control unit and display unit.	• Display unit power supply or ground circuits. Refer to AV-90. • Communication circuits between AV control unit and display unit. Refer to AV-84.
XM Connection Error	When any of the following is detected: • satellite radio tuner power supply or ground circuit malfunction. • communication circuit malfunction between AV control unit and satellite radio tuner. • request signal circuit malfunction between AV control unit and satellite radio tuner.	• Satellite radio tuner power supply or ground circuits. Refer to AV-92. • Communication circuit between AV control unit and satellite radio tuner. Refer to AV-86. • Request signal circuit between AV control unit and satellite radio tuner. Refer to AV-86.
• AV COMM CIRCUIT • Switches Connection Error	When any of the following is detected: • Multifunction switch power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and multifunction switch.	• Multifunction switch power supply or ground circuits. Refer to AV-94. • AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT • BTHF Unit Connection Error	When any of the following is detected: • Bluetooth® control unit power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and Bluetooth® control unit.	• Bluetooth® control unit power supply or ground circuits. Refer to AV-93. • AV communication circuits between AV control unit and Bluetooth® control unit.
• AV COMM CIRCUIT • Switches Connection Error • BTHF Unit Connection Error	AV communication circuit malfunction between AV control unit and multifunction switch.	AV communication circuits between AV control unit and multifunction switch.

Camera Cont.

The two functions of “Correct Draw Line of Rear view Cam”, “Confirm Configuration” are available.

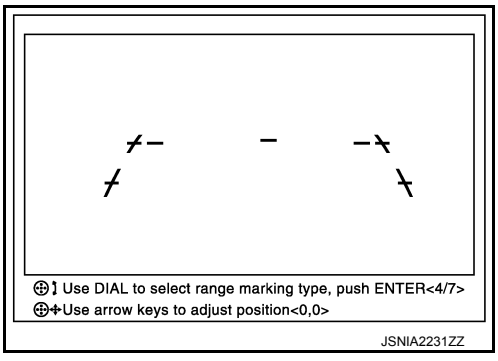


Adjust Offset of Rear view Camera

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

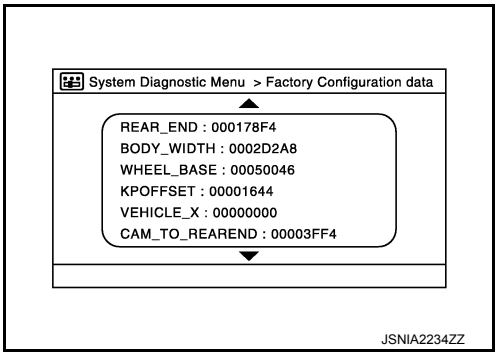
  CAUTION:

  After the adjustment, never perform other operations for one minute.



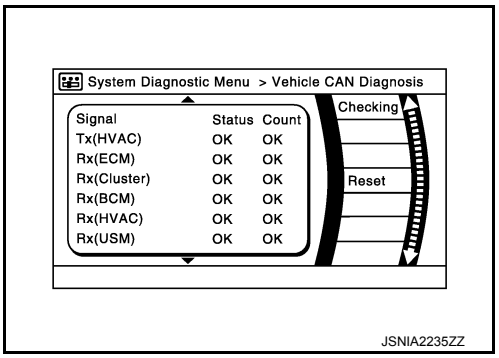
Factory Configuration Confirmation

- Configuration stored in the AV control unit can be checked.



Vehicle CAN Diagnosis

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

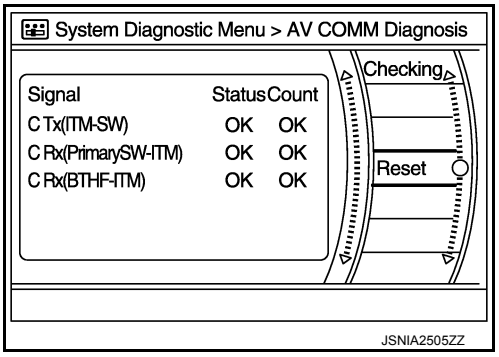


Items	Display (Current)	Malfunction counter (Past)
Tx(HVAC)	OK / ???	OK / 0 – 39
Rx(ECM)	OK / ???	OK / 0 – 39
Rx(Cluster)	OK / ???	OK / 0 – 39
Rx(BCM)	OK / ???	OK / 0 – 39
Rx(HVAC)	OK / ???	OK / 0 – 39
Rx(USM)	OK / ???	OK / 0 – 39
Rx(VDC)	OK / ???	OK / 0 – 39
Rx(STRG)	OK / ???	OK / 0 – 39

NOTE:
“???” indicates UNKWN.

AV COMM Diagnosis

- Displays the communication status between AV control 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.

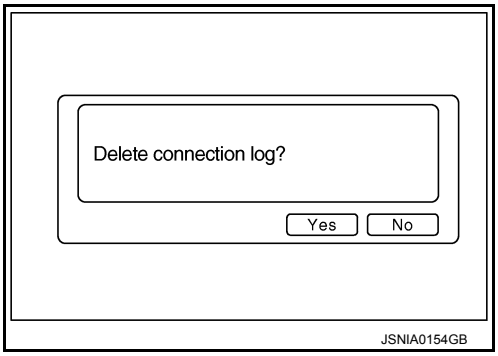


Items	Status (Current)	Counter (Past)
C Tx(ITM-SW)	OK / ???	OK / 0 – 39
C Rx(PrimarySW-ITM)	OK / ???	OK / 0 – 39
C Rx(BTHF-ITM)	OK / ???	OK / 0 – 39

NOTE:
“???” indicates UNKWN.

Delete Unit Connection Log

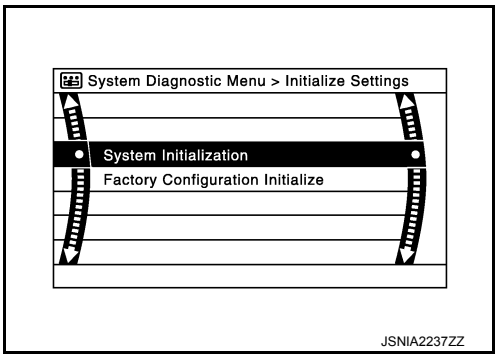
Deletes any unit connection records and error records from the AV control unit memory. (Clear the records of the unit that has been removed.)



Initialize Settings
"User Data Initialization" and "Accessory Number Initialization" are possible.

CAUTION:

- **Never perform Accessory Number Initialization except when configuration is unsuccessful.**
- **Accessory Number Initialization requires configuration. For details, refer to AV-77, "CONFIGURATION (AV CONTROL UNIT) : Description".**



CONSULT Function

INFOID:0000000012849386

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

CONSULT FUNCTIONS

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

Direct Diagnostic Mode	Description
ECU Identification	The AV control unit part number is displayed.
Self Diagnostic Result	The AV control unit self diagnostic results are displayed.
Data Monitor	The AV control unit input/output data is displayed in real time.
Work support	The settings for AV control unit functions can be changed.
Configuration	• The vehicle specification can be read and saved. • The vehicle specification can be written when replacing AV control unit.
CAN Diag Support Mntr	• The result of transmit/receive diagnosis of AV communication is displayed. • The result of transmit/receive diagnosis of CAN communication is displayed.

ECU IDENTIFICATION

The part number of AV control unit is displayed.

SELF DIAGNOSTIC RESULT

Refer to AV-43, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
VHCL SPD SIG [On/Off]	Indicates vehicle speed signal received from combination meter on CAN communication line.
PKB SIG [On/Off]	Indicates condition of park brake signal.
ILLUM SIG [On/Off]	Indicates condition of illumination signal for the multifunction switch and preset switch.

Monitor Item [Unit]	Description
IGN SIG [On/Off]	Indicates condition of ignition signal.
REV SIG [On/Off]	Indicates condition of reverse signal received from BCM.

WORK SUPPORT

Conditions	Description
ST ANGLE SENSOR ADJUSTMENT	Steering angle sensor neutral position adjustment can be performed. Refer to BRC-82, "Description".

CONFIGURATION

Refer to AV-77, "CONFIGURATION (AV CONTROL UNIT) : Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-25, "CAN Diagnostic Support Monitor".

DIAGNOSIS SYSTEM (BLUETOOTH® CONTROL UNIT)

Diagnosis Description

INFOID:0000000012849387

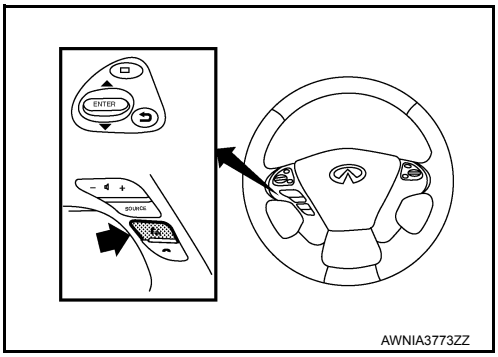
The Bluetooth® control unit has two diagnostic checks. The first diagnostic check is performed automatically every ignition cycle during control unit initialization. The second diagnostic check is performed by the technician using the steering switch prior to trouble diagnosis.

BLUETOOTH® CONTROL UNIT INITIALIZATION CHECKS

- Internal control unit failure
- Bluetooth® antenna connection open or shorted
- Steering switch [(PHONE/SEND), (PHONE/END)] stuck closed
- Vehicle speed pulse count
- Microphone connection test (with playback to operator)
- Bluetooth® inquiry check

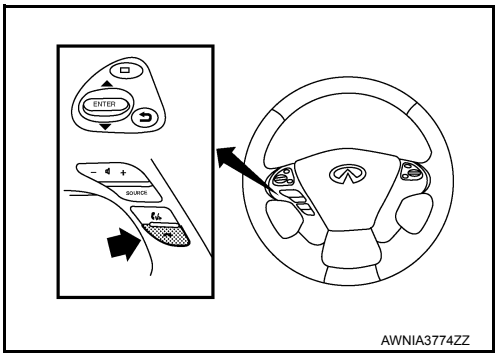
OPERATION PROCEDURE

1. Turn ignition switch to ACC or ON.
2. Wait for the Bluetooth® system to complete initialization. This may take up to 20 seconds.
3. Press and hold the steering switch (PHONE/SEND) button for at least 5 seconds. The Bluetooth® system will begin to play a verbal prompt.



AWNIA3773ZZ

4. While the prompt is playing, press and hold the steering switch (PHONE/END) button until you hear the “Diagnostics mode” prompt. The Bluetooth® system will sound a 5-second beep.
5. While the beep is sounding, press and hold the steering switch (PHONE/END) button again until you hear prompts.
6. The Bluetooth® system has now entered into the diagnostic mode. Results of the diagnostic checks will be verbalized to the technician. Refer to AV-36, "Work Flow".
7. After the failure records are reported, an interactive microphone test will be performed. Follow the voice prompt. If the microphone test fails, refer to AV-36, "Work Flow".



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Work Flow

INFOID:0000000012849388

Failure Message	Action
“Internal failure”	Replace Bluetooth® control unit. Refer to AV-145, "Removal and Installation".
“Bluetooth® antenna open”	1. Inspect harness connection. 2. Replace Bluetooth® antenna. Refer to AV-150, "Removal and Installation".
“Bluetooth® antenna shorted”	
“Phone/Send for Hands Free System is stuck”	Check steering switch. Refer to AV-124, "Diagnosis Procedure".
“Phone/End for the Hands Free System is stuck”	
“Microphone test” (failed interactive test)	1. Inspect harness between Bluetooth® control unit and microphone. 2. Replace microphone. Refer to AV-146, "Removal and Installation".

ECU DIAGNOSIS INFORMATION

AV CONTROL UNIT

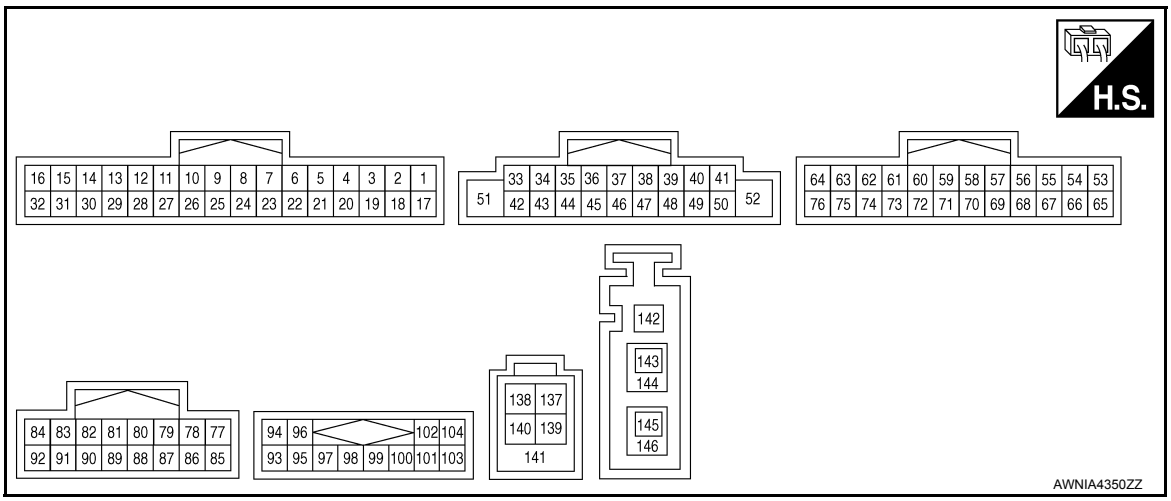
Reference Value

INFOID:0000000012849389

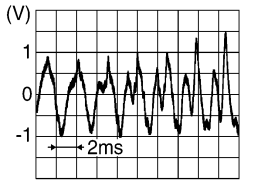
VALUES ON THE DIAGNOSIS TOOL

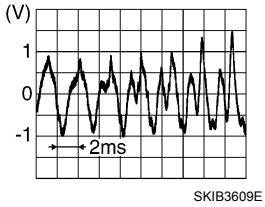
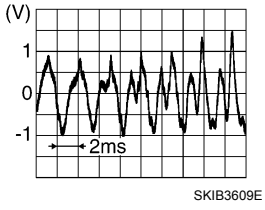
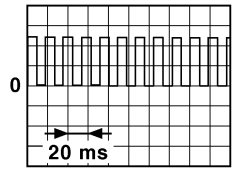
Monitor Item	Condition	Value/Status
VHCL SPD SIG	Vehicle speed = 0 km/h (0 MPH).	Off
	Vehicle speed > 0 km/h (0 MPH).	On
PKB SIG	Parking brake released.	Off
	Parking brake applied.	On
ILLUM SIG	Illumination signal is not received.	Off
	Illumination signal is received.	On
IGN SIG	Ignition switch OFF or ACC.	Off
	Ignition switch ON.	On
REV SIG	Selector lever in any position other than R.	Off
	Selector lever in R position.	On

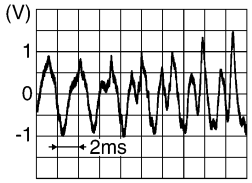
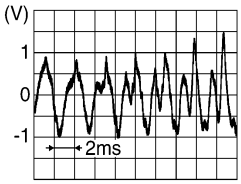
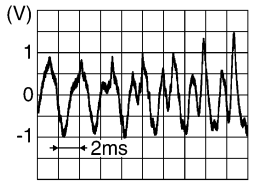
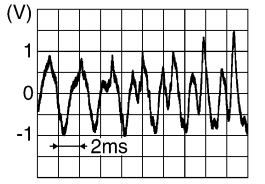
TERMINAL LAYOUT

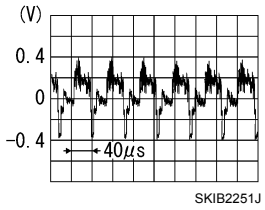
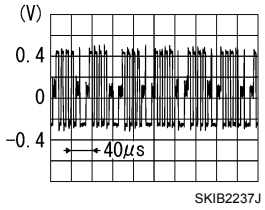
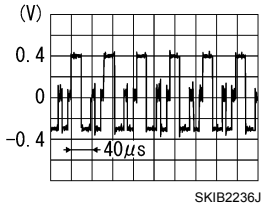
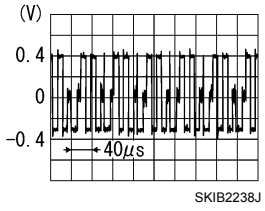
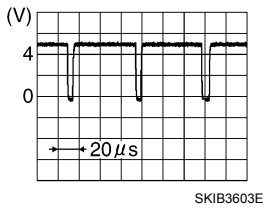


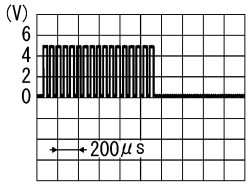
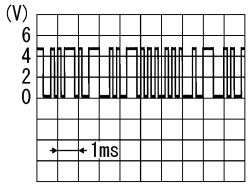
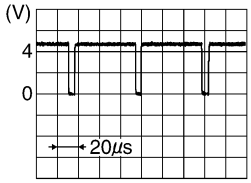
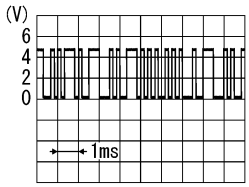
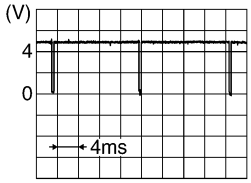
PHYSICAL VALUES

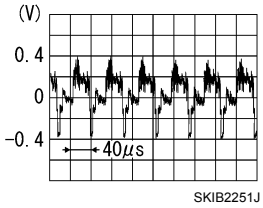
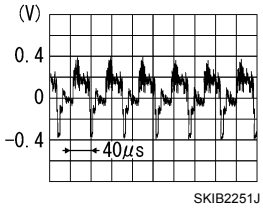
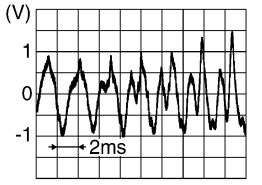
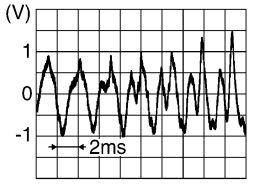
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
5 (W)	4 (B)	Bluetooth® voice signal	Input	ON	During voice guide output with switch pressed	
6 (Shield)	—	Bluetooth® voice signal shield	—	—	—	—

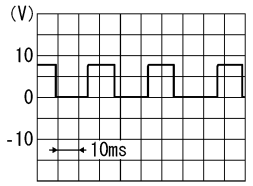
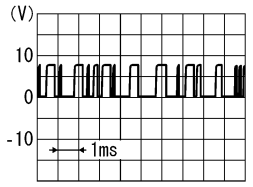
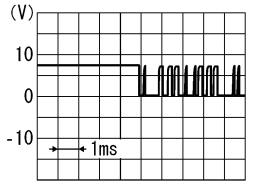
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
10 (V)	Ground	Switch ground	—	ON	—	0 V
11 (L)	—	CAN–H	Input/ Output	—	—	—
12 (P)	—	CAN–L	Input/ Output	—	—	—
13 (SB)	—	AV communication signal 1 (H)	Input/ Output	—	—	—
14 (LG)	—	AV communication signal 1 (L)	Input/ Output	—	—	—
15 (SB)	—	AV communication signal 2 (H)	Input/ Output	—	—	—
16 (LG)	—	AV communication signal 2 (L)	Input/ Output	—	—	—
20 (R)	22 (B)	AUX sound signal RH	Input	ON	AUX mode selected	 SKIB3609E
21 (W)	22 (B)	AUX sound signal LH	Input	ON	AUX mode selected	 SKIB3609E
25 (Shield)	—	AUX sound signal shield	—	—	—	—
28 (Y)	Ground	Disk eject signal	Input	ON	Pressing eject switch	0 V
					Except above	5.0 V
29 (LG)	Ground	Ignition signal	Input	ON	—	Battery voltage
30 (R)	Ground	Reverse signal	Input	ON	Selector lever in R position	Battery voltage
					Selector lever in any position other than R	0 V
31 (G)	Ground	Parking brake signal	Input	ON	Parking brake applied	0 V
					Parking brake released	Battery voltage
32 (BG)	Ground	Vehicle speed signal	Input	ON	Vehicle speed approx. 40 km/h (25 MPH)	**NOTE:** The maximum voltage varies depending on the specification (destination unit).  JSNIA0012GB

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
34 (SB)	35 (V)	Sound signal front door speaker and instrument panel tweeter LH	Output	ON	Audio output	 SKIB3609E
36 (BR)	37 (Y)	Sound signal rear door speaker LH	Output	ON	Audio output	 SKIB3609E
38 (G)	47 (B)	Steering switch signal A	Input	ON	Press SOURCE switch	0V
					Press △ switch	1.0V
					Press ▽ switch	2.0V
					Press switch	3.0V
					Press ENTER switch	4.0V
					Except above	5.0V
39 (P)	Ground	ACC power supply	Input	ACC	—	Battery voltage
41 (R)	Ground	Illumination signal	Input	OFF	Lighting switch OFF	0 V
					Lighting switch ON	Battery voltage
43 (BR)	44 (Y)	Sound signal front door speaker and instrument panel tweeter RH	Output	ON	Audio output	 SKIB3609E
45 (L)	46 (SB)	Sound signal rear door speaker RH	Output	ON	Audio output	 SKIB3609E
48 (W)	47 (B)	Steering switch signal B	Input	ON	Press switch	0V
					Press switch	1.0V
					Press switch	2.0V
					Press switch	3.0V
					Press DISP switch	4.0V
					Except above	5.0V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
51 (Y)	Ground	Battery power supply	Input	OFF	—	Battery voltage
52 (GR)	Ground	Ground	—	ON	—	0 V
53 (B)	Ground	Composite image signal	Output	ON	Camera image or AUX image displayed	 SKIB2251J
54 (W)	Ground	Composite image signal ground	—	ON	—	0 V
55 (W)	Ground	RGB signal (B: blue)	Output	ON	Begin Confirmation/Adjustment mode, then select “Color Spectrum Bar”	 SKIB2237J
56 (B)	Ground	RGB signal (G: green)	Output	ON	Begin Confirmation/Adjustment mode, then select “Color Spectrum Bar”	 SKIB2236J
57 (R)	Ground	RGB signal (R: red)	Output	ON	Begin Confirmation/Adjustment mode, then select “Color Spectrum Bar”	 SKIB2238J
58 (B)	Ground	RGB synchronizing signal	Output	ON	—	 SKIB3603E
59 (Shield)	—	Synchronizing signal shield	—	—	—	—

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
60 (W)	Ground	RGB area (YS) signal	Output	ON	RGB image displayed	5.0 V
					AUX image displayed	 PKIB4948J
61 (B)	Ground	Communication signal (DISP→CONT)	Input	ON	Adjusting display brightness	 PKIB5039J
62 (G)	Ground	Horizontal synchronizing (HP) signal	Input	ON	—	 SKIB3601E
63 (B)	Ground	Signal ground	—	OFF	—	0 V
64 (V)	Ground	Signal VCC	Output	ACC	—	9.0 V
66 (Shield)	—	Composite image signal shield	—	—	—	—
67 (Shield)	—	RGB signal shield	—	—	—	—
72 (Shield)	—	Display communication signal shield	—	—	—	—
73 (W)	Ground	Communication signal (CONT→DISP)	Output	ON	Adjusting display brightness	 PKIB5039J
74 (R)	Ground	Vertical synchronizing (VP) signal	Input	ON	—	 SKIB3598E
75 (LG)	Ground	Inverter ground	—	OFF	—	0 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
76 (L)	Ground	Inverter VCC	Output	ACC	—	9.0 V
82 (W)	Ground	Camera image signal	Input	ON	Camera image displayed	 SKIB2251J
83 (W)	Ground	AUX image signal	Input	ON	AUX image displayed	 SKIB2251J
87 (R)	Ground	Camera power supply	Output	ON	Selector lever in “R” position	6.0 V
88 (B)	Ground	Camera ground	—	ON	—	0 V
89 (Shield)	—	Camera image signal shield	—	—	—	—
90 (Shield)	—	AUX image signal shield	—	—	—	—
91 (B)	Ground	AUX image signal ground	—	ON	—	0 V
94 (B)	93 (W)	Satellite radio sound signal LH	Input	ON	Satellite radio mode selected	 SKIB3609E
96 (G)	95 (R)	Satellite radio sound signal RH	Input	ON	Satellite radio mode selected	 SKIB3609E
97 (Shield)	—	Satellite radio sound signal shield	—	—	—	—
98 (Shield)	—	Satellite communication signal shield	—	—	—	—

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
100 (W)	Ground	Request signal (SAT→CONT)	Input	ON	Satellite radio mode selected	 SKIA9299J
101 (B)	Ground	Communication signal (SAT→CONT)	Input	ON	Satellite radio mode selected	 SKIA9300J
102 (R)	Ground	Communication signal (CONT→SAT)	Output	ON	Satellite radio mode selected	 SKIA9301J
137 (R)	—	V BUS signal	—	—	—	—
138 (B)	—	USB ground	—	—	—	—
139 (G)	—	USB D+ signal	—	—	—	—
140 (W)	—	USB D− signal	—	—	—	—
141 (Shield)	—	USB signal shield	—	—	—	—
142 (B)	—	Antenna amp. ON signal	Output	ON	—	Battery voltage
143 (B)	—	AM - FM main	Input	—	—	—
144 (Shield)	—	Shield	—	—	—	—
145 (B)	—	FM sub	Input	—	—	—
146 (Shield)	—	Shield	—	—	—	—

DTC Index

INFOID:0000000012849390

CONSULT Display	Reference Page
U1000: CAN COMM CIRCUIT	AV-79, "DTC Logic"
U1010: CONTROL UNIT	AV-80, "DTC Logic"

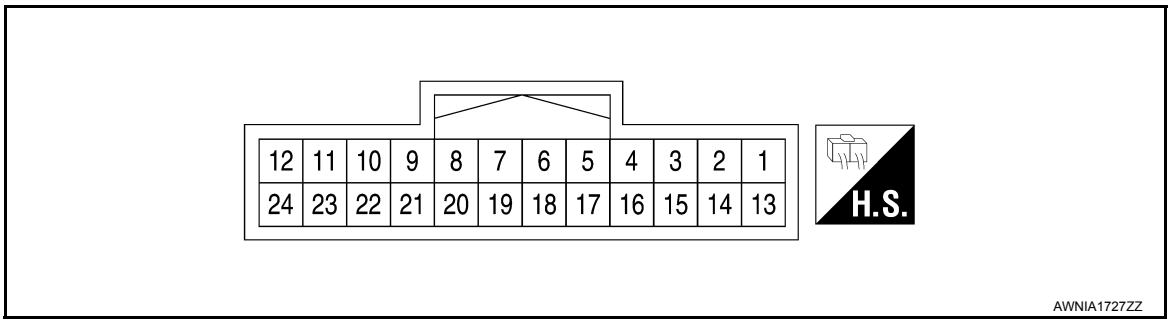
CONSULT Display	Reference Page
U1200: CONT UNIT	AV-81, "DTC Logic"
U1216: CAN CONT	AV-82, "DTC Logic"
U1232: ST ANGLE SEN CALIB	AV-83, "DTC Logic"
U1240: SWITCH CONN	AV-88, "Description"
U1243: FRONT DISP CONN	AV-84, "DTC Logic"
U1255: SAT CONN	AV-86, "DTC Logic"
U1256: HAND FREE CONN	AV-88, "Description"
U1300: AV COMM CIRCUIT	AV-88, "Description"
U1310: CONTROL UNIT	AV-89, "DTC Logic"

DISPLAY UNIT

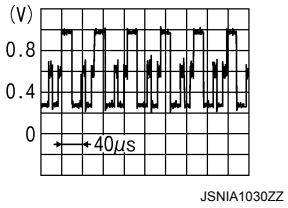
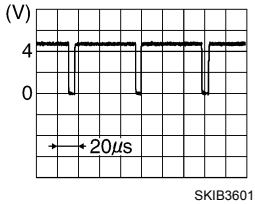
Reference Value

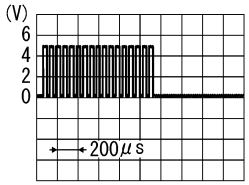
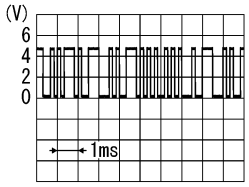
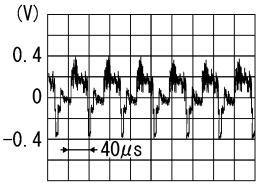
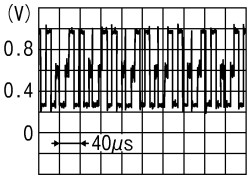
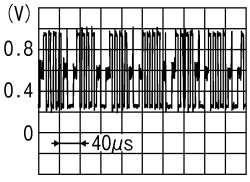
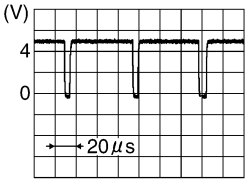
INFOID:0000000012849391

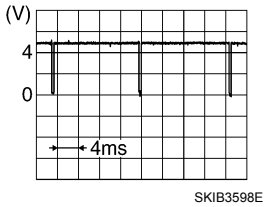
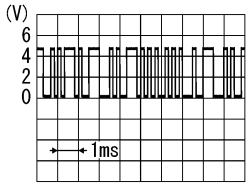
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (B)	Ground	Ground	—	ON	—	0V
2 (L)	Ground	Inverter VCC	Input	ACC	—	9V
3 (V)	Ground	Signal VCC	Input	ACC	—	9V
4 (W)	Ground	Composite image ground	—	ON	—	0V
5 (Shield)	—	Composite image signal shield	—	—	—	—
6 (B)	Ground	RGB signal (G: green)	Input	ON	Begin Confirmation/Adjustment mode, then select “Color Spectrum Bar”	 JSNIA1030ZZ
7 (Shield)	—	RGB signal shield	—	—	—	—
8 (G)	Ground	Horizontal synchronizing (HP) signal	Output	ON	—	 SKIB3601E

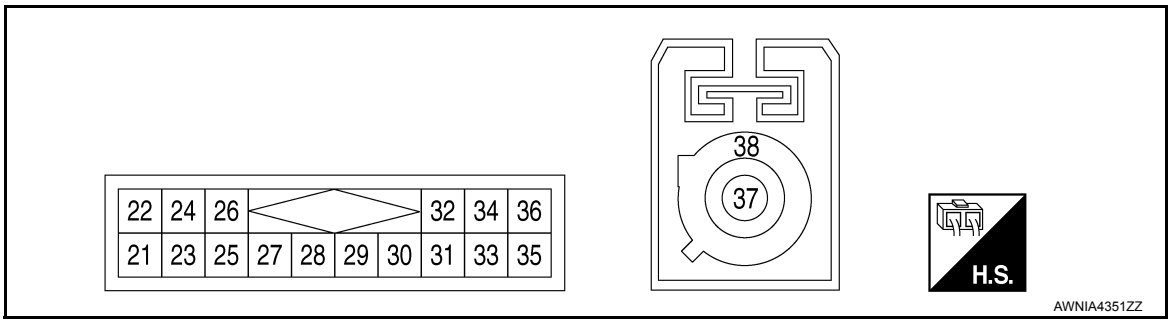
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
9 (W)	Ground	RGB area (YS) signal	Input	ON	RGB image displayed	5V
					DVD image displayed	 PKIB4948J
11 (W)	Ground	Communication signal (CONT→DISP)	Input	ON	Adjusting display brightness	 PKIB5039J
13 (LG)	Ground	Inverter ground	—	ON	—	0V
14 (B)	Ground	Signal ground	—	ON	—	0V
15 (B)	Ground	Composite image signal	Input	ON	Camera image displayed	 SKIB2251J
17 (R)	Ground	RGB signal (R: red)	Input	ON	Begin Confirmation/Adjustment mode, then select “Color Spectrum Bar”	 JSNIA1029ZZ
18 (W)	Ground	RGB signal (B: blue)	Input	ON	Begin Confirmation/Adjustment mode, then select “Color Spectrum Bar”	 JSNIA1031ZZ
19 (B)	Ground	RGB synchronizing signal	Input	ON	—	 SKIB3603E

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
20 (R)	Ground	Vertical synchronizing (VP) signal	Output	On	—	 SKIB3598E
21 (Shield)	—	Synchronizing signal shield	—	—	—	—
22 (B)	Ground	Communication signal (DISP→CONT)	Output	ON	Adjusting display brightness	 PKIB5039J
23 (Shield)	—	Communication signal shield	—	—	—	—

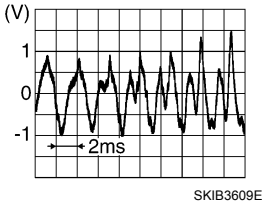
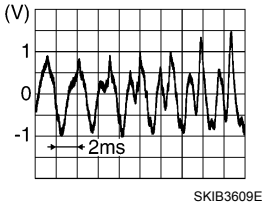
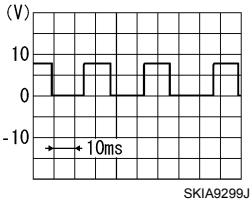
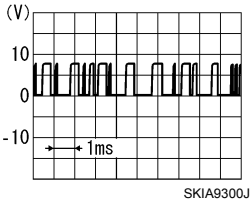
SATELLITE RADIO TUNER

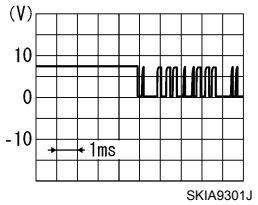
Reference Value

INFOID:0000000012849392



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
22 (B)	21 (W)	Satellite radio sound signal LH	Output	ON	Satellite radio mode selected	 SKIB3609E
24 (G)	23 (R)	Satellite radio sound signal RH	Output	ON	Satellite radio mode selected	 SKIB3609E
25 (Shield)	—	Satellite radio sound signal shield	—	—	—	—
26 (Shield)	—	Satellite control signal shield	—	—	—	—
28 (W)	Ground	Request signal (SAT→CONT)	Output	ON	Satellite radio mode selected	 SKIA9299J
29 (R)	Ground	Communication signal (SAT→CONT)	Output	ON	Satellite radio mode selected	 SKIA9300J

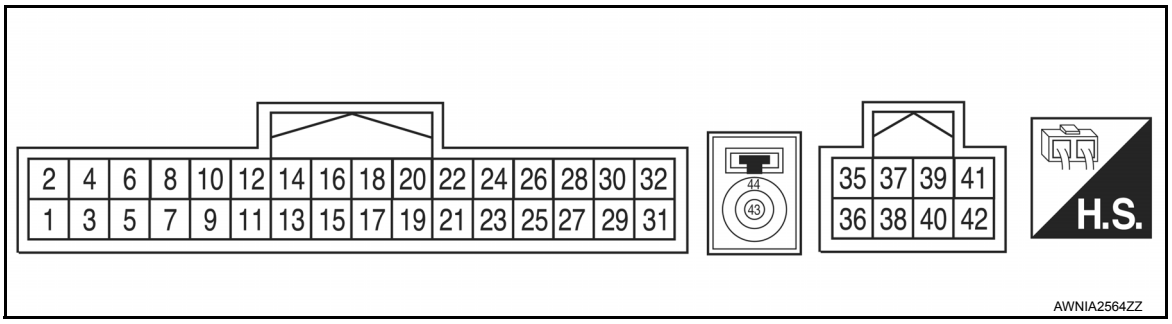
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
30 (B)	Ground	Communication signal (CONT→SAT)	Input	ON	Satellite radio mode selected	 SKIA9301J
32 (SB)	Ground	Battery power supply	Input	OFF	—	Battery voltage
35 (GR)	Ground	Ground	—	ON	—	0V
36 (BG)	Ground	ACC power supply	Input	ACC	—	Battery voltage
37 (B)	—	Satellite antenna	—	—	—	—
38 (Shield)	—	Shield	—	—	—	—

BLUETOOTH® CONTROL UNIT

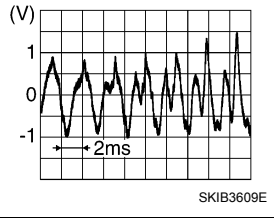
Reference Value

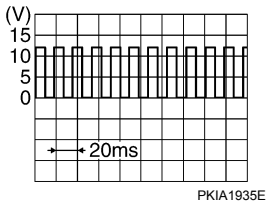
INFOID:0000000012849393

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ output	Ignition switch	Operation	
1 (Y)	Ground	Battery power	Input	–	–	Battery voltage
2 (R)	Ground	ACC power	Input	ACC or ON	–	Battery voltage
3 (P)	Ground	IGN power	Input	ON or START	–	Battery voltage
4 (B)	Ground	Ground	–	ON	–	0V
5 (Shield)	–	Audio out shield	–	–	–	—
7 (B)	8 (Shield)	MIC in signal	Input	–	–	–
9 (W)	10 (B)	Audio out	Output	ACC or ON	Bluetooth® control unit sends audio signal	
20 (B)	Ground	Ground	–	ON	–	0V
23 (B)	Ground	Ground	–	ON	–	0V
24 (B)	Ground	Ground	–	ON	–	0V
27 (B)	Ground	Ground	–	ON	–	0V

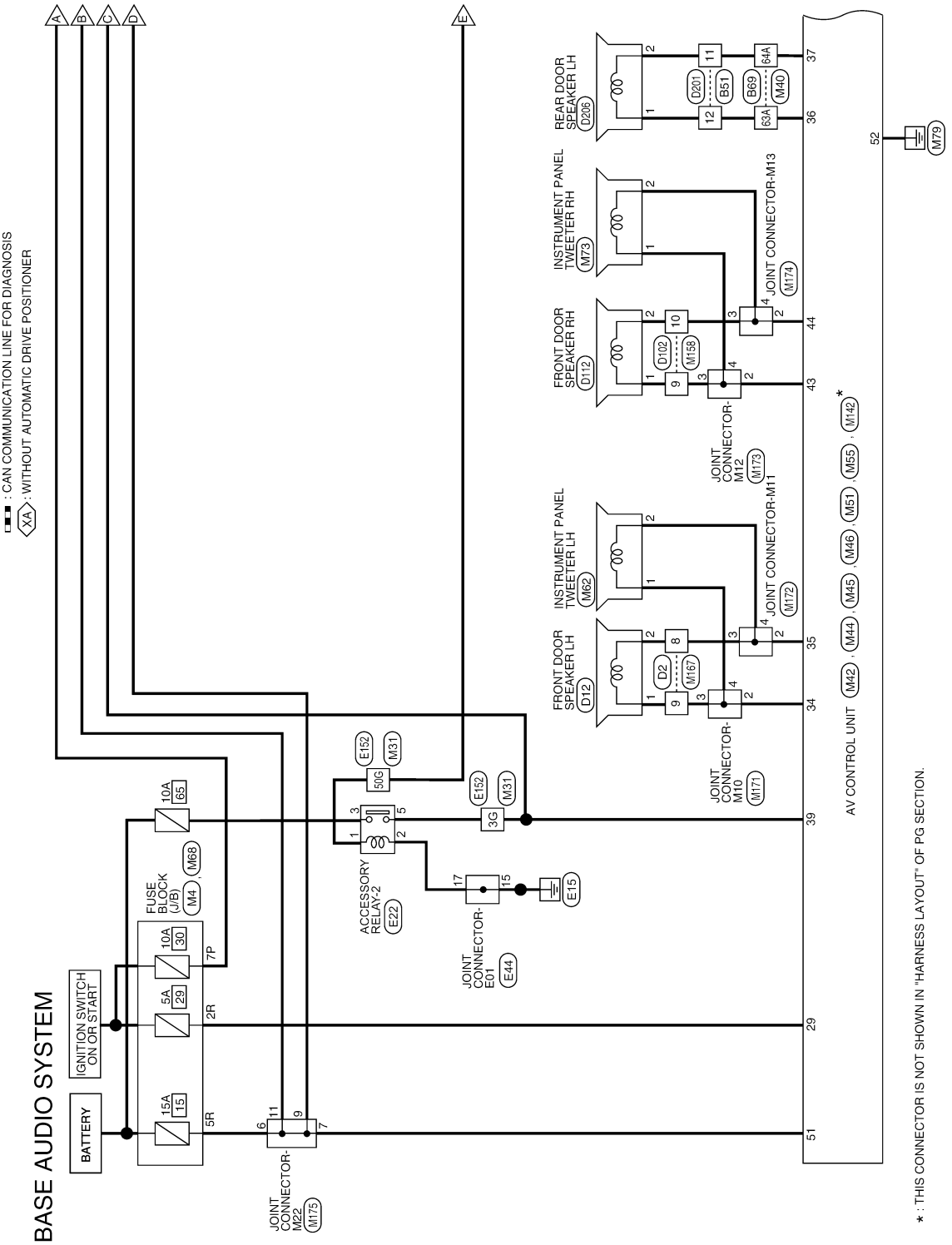
Terminal (wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ output	Ignition switch	Operation	
28 (V)	Ground	Vehicle speed signal (8-pulse)	Input	ON	When vehicle speed is approx. 40 km/h (25 MPH)	
29 (W)	Ground	Microphone power	Output	ON	–	5V
35 (SB)	–	AV communication (H)	–	–	–	—
36 (LG)	–	AV communication (L)	–	–	–	—
43 (B)	–	Bluetooth® antenna	–	–	–	—
44 (Shield)	–	Bluetooth® antenna shield	–	–	–	—

WIRING DIAGRAM

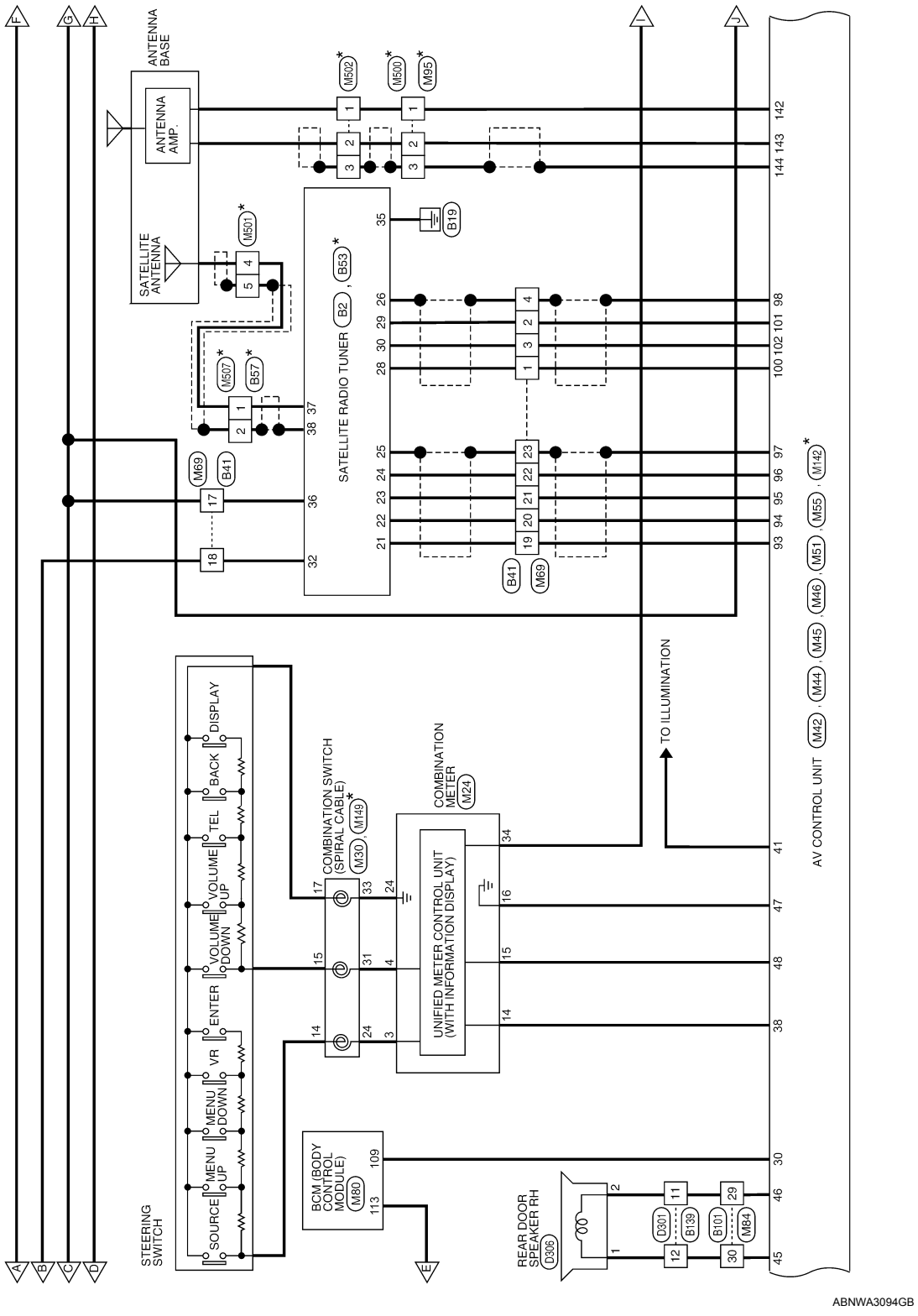
BASE AUDIO

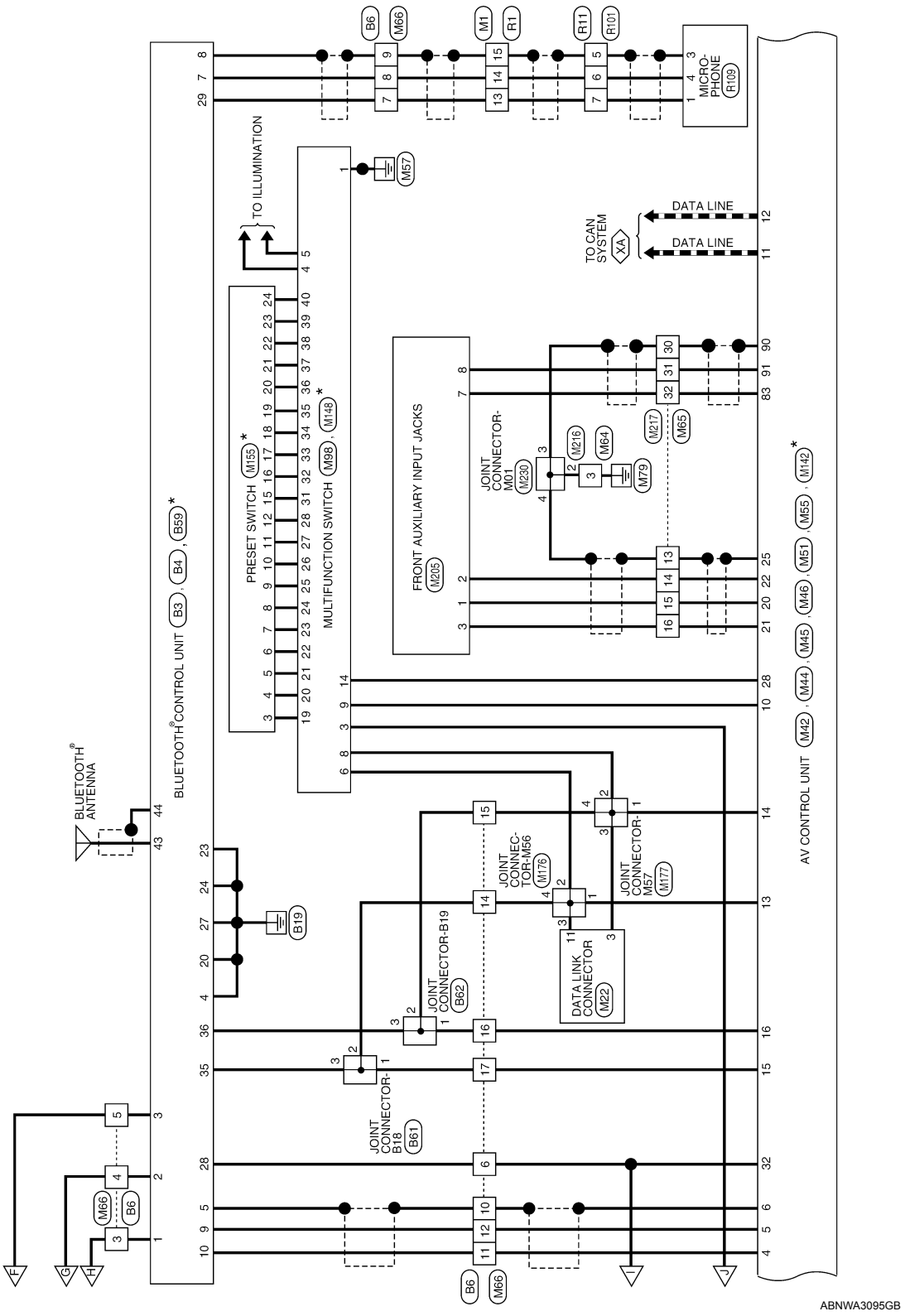
Wiring Diagram

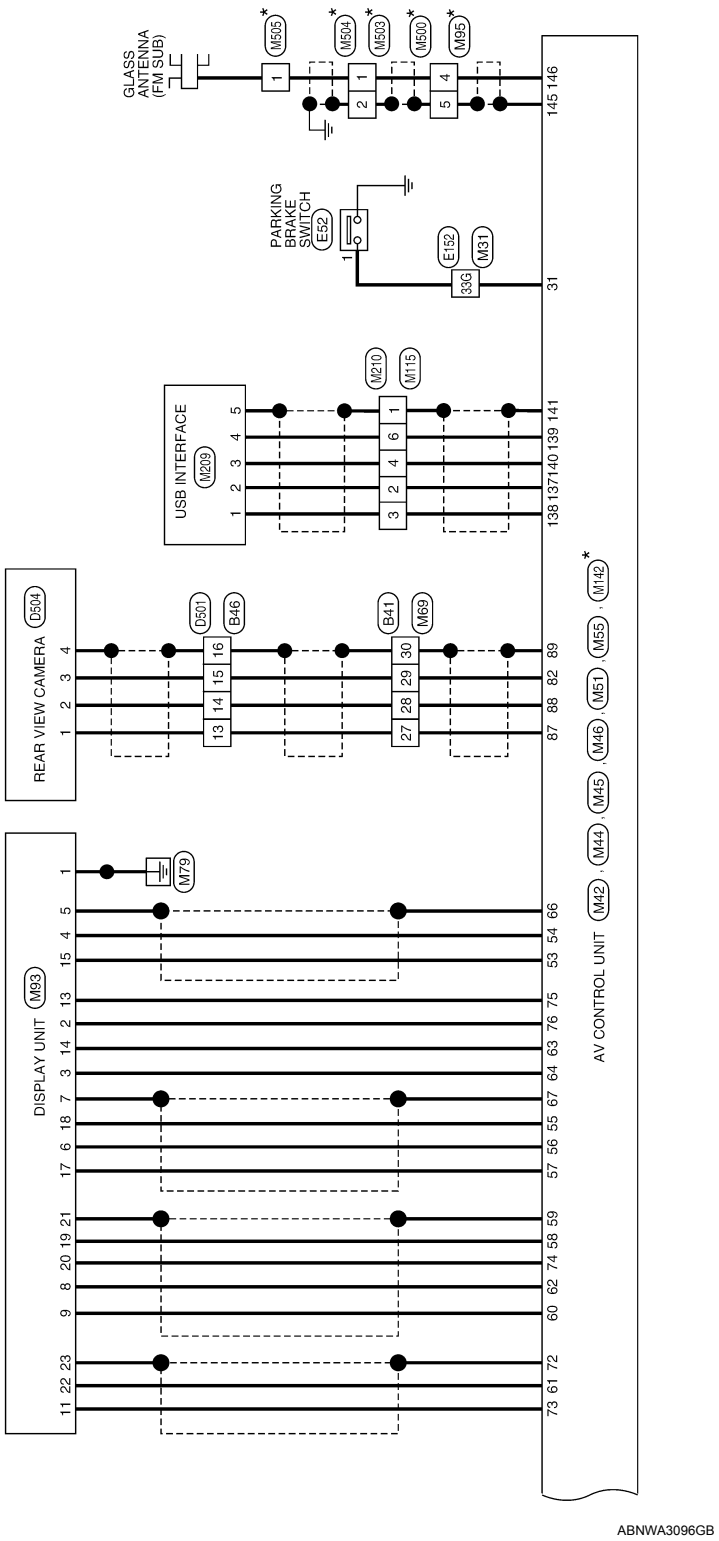
INFOID:0000000012849394



ABNWA3093GB


ANTENNA BASE
ANTENNA AMP.
SATELLITE ANTENNA
M502
M500
M95
M501
M507
B57
B53
B2
B19
SATELLITE RADIO TUNER
M69
B41
M24
COMBINATION METER
UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY)
COMBINATION SWITCH (SPIRAL CABLE)
M30
M149
STEERING SWITCH
SOURCE
MENU UP
MENU DOWN
VR
ENTER
VOLUME DOWN
VOLUME UP
TEL
BACK
DISPLAY
BCM (BODY CONTROL MODULE)
M80
TO ILLUMINATION
AV CONTROL UNIT
M42
M44
M45
M46
M51
M55
M142
REAR DOOR SPEAKER RH
D306
D301
B139
B101
M84
ABNWA3094GB


BLUETOOTH® ANTENNA
BLUETOOTH® CONTROL UNIT B3 , B4 , B59 *
PRESET SWITCH M155 *
MULTIFUNCTION SWITCH M98 , M148 *
TO ILLUMINATION
M57
B6
M66
M1
R1
R11
R101
MICRO-PHONE R109
TO CAN SYSTEM
XA
DATA LINE
DATA LINE
FRONT AUXILIARY INPUT JACKS M205
JOINT CONNECTOR-M01 M230
M216
M64
M79
M217
M65
AV CONTROL UNIT M42 , M44 , M45 , M46 , M51 , M55 , M142 *
JOINT CONNECTOR-B19
B62
JOINT CONNEC-TOR-M56 M176
JOINT CONNECTOR M57 M177
DATA LINK CONNECTOR M22
JOINT CONNECTOR-B18 B61
B19
F
G
H
I
J
ABNWA3095GB


GLASS ANTENNA (FM SUB)
M505
M504
M503
M500
M95
PARKING BRAKE SWITCH
E52
E152
M31
33G
USB INTERFACE
M209
M210
M115
REAR VIEW CAMERA
D504
D501
B46
B41
M69
DISPLAY UNIT
M93
M79
AV CONTROL UNIT
M42
M44
M45
M46
M51
M55
M142
ABNWA3096GB

BASE AUDIO SYSTEM CONNECTORS

Connector No.	B2
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16FW
Connector Color	WHITE

H.S.

22	24	26		32	34	36
21	23	25	27	28	29	30	31	33	35

Terminal No.	Color of Wire	Signal Name
21	W	SAT LCH (-)
22	B	SAT LCH (+)
23	R	SAT RCH (-)
24	G	SAT RCH (+)
25	SHIELD	EARTH (SIG)
26	SHIELD	DATA EARTH
27	–	–
28	W	REQ1 (SAT-COMBI)
29	R	TXD (SAT-COMBI)
30	B	RXD (COMBI-SAT)
31	–	–
32	SB	BAT
33	–	–
34	–	–
35	GR	EARTH
36	BG	ACC

Connector No.	B3
Connector Name	BLUETOOTH® CONTROL UNIT
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	B+
2	R	ACC
3	P	IGN
4	B	GND
5	SHIELD	AUDIO SHIELD
6	–	–

7	B	MIC IN +
8	SHIELD	MIC IN - (GND)
9	W	AUDIO OUT +
10	B	AUDIO OUT -
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	–	–
19	–	–
20	B	CONT 1
21	–	–
22	–	–
23	B	CONT 4
24	B	CONT 5
25	–	–
26	–	–
27	B	CONT 6
28	V	SPEED
29	W	MIC POWER
30	–	–
31	–	–
32	–	–

Connector No.	B4
Connector Name	BLUETOOTH® CONTROL UNIT
Connector Type	TH08FW-NH
Connector Color	WHITE

H.S.

35	37	39	41
36	38	40	42

Terminal No.	Color of Wire	Signal Name
35	SB	CAN H
36	LG	CAN L
37	–	–
38	–	–
39	–	–
40	–	–
41	–	–
42	–	–

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	P	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	Y	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
3	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
4	R	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
4	SHIELD	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
5	P	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	W	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	V	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	V	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	W	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	G	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
9	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
10	SHIELD	TO MAIN HARNESS
11	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
11	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
12	W	TO MAIN HARNESS
13	SB	TO MAIN HARNESS
14	SB	TO MAIN HARNESS
15	LG	TO MAIN HARNESS
16	LG	TO MAIN HARNESS
17	SB	TO MAIN HARNESS
18	P	TO MAIN HARNESS
19	BG	TO MAIN HARNESS
20	W	TO MAIN HARNESS

21	R	TO MAIN HARNESS
22	B	TO MAIN HARNESS
23	SHIELD	TO MAIN HARNESS
24	–	TO MAIN HARNESS

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BASE AUDIO SYSTEM CONNECTORS

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS - (WITHOUT NAVI)
1	R	TO MAIN HARNESS - (WITH NAVI)
2	R	TO MAIN HARNESS - (WITHOUT NAVI)
2	W	TO MAIN HARNESS - (WITH NAVI)
3	B	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	R	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	BG	TO MAIN HARNESS - (WITHOUT NAVI)
17	V	TO MAIN HARNESS - (WITH NAVI)
18	SB	TO MAIN HARNESS - (WITHOUT NAVI)
18	W	TO MAIN HARNESS - (WITH NAVI)
19	W	TO MAIN HARNESS - (WITHOUT NAVI)
19	B	TO MAIN HARNESS - (WITH NAVI)
20	B	TO MAIN HARNESS - (WITHOUT NAVI)
20	W	TO MAIN HARNESS - (WITH NAVI)
21	R	TO MAIN HARNESS - (WITHOUT NAVI)
21	SHIELD	TO MAIN HARNESS - (WITH NAVI)
22	G	TO MAIN HARNESS - (WITHOUT NAVI)
22	W	TO MAIN HARNESS - (WITH NAVI)
23	SHIELD	TO MAIN HARNESS - (WITHOUT NAVI)
23	R	TO MAIN HARNESS - (WITH NAVI)
24	SHIELD	TO MAIN HARNESS
25	B	TO MAIN HARNESS
26	G	TO MAIN HARNESS
27	W	TO MAIN HARNESS - (WITH NAVI)
27	R	TO MAIN HARNESS - (WITHOUT NAVI)
28	R	TO MAIN HARNESS - (WITH NAVI)
28	B	TO MAIN HARNESS - (WITHOUT NAVI)
29	G	TO MAIN HARNESS - (WITH NAVI)
29	W	TO MAIN HARNESS - (WITHOUT NAVI)
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	V	TO BACK DOOR LH HARNESS
2	Y	TO BACK DOOR LH HARNESS
3	BR	TO BACK DOOR LH HARNESS
4	SB	TO BACK DOOR LH HARNESS
5	LG	TO BACK DOOR LH HARNESS
6	L	TO BACK DOOR LH HARNESS
7	LG	TO BACK DOOR LH HARNESS
8	BR	TO BACK DOOR LH HARNESS
9	W	TO BACK DOOR LH HARNESS
10	R	TO BACK DOOR LH HARNESS
11	G	TO BACK DOOR LH HARNESS
12	W	TO BACK DOOR LH HARNESS
13	W	TO BACK DOOR LH HARNESS - (WITH NAVI)
13	R	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
14	R	TO BACK DOOR LH HARNESS - (WITH NAVI)
14	B	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
15	G	TO BACK DOOR LH HARNESS - (WITH NAVI)
15	W	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
16	SHIELD	TO BACK DOOR LH HARNESS
17	B	TO BACK DOOR LH HARNESS
18	–	TO BACK DOOR LH HARNESS
19	W	TO BACK DOOR LH HARNESS
20	W	TO BACK DOOR LH HARNESS
21	G	TO BACK DOOR LH HARNESS
22	BR	TO BACK DOOR LH HARNESS
23	GR	TO BACK DOOR LH HARNESS
24	G	TO BACK DOOR LH HARNESS

Connector No.	B51
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO REAR DOOR LH HARNESS
2	BR	TO REAR DOOR LH HARNESS
3	B	TO REAR DOOR LH HARNESS
4	R	TO REAR DOOR LH HARNESS
5	–	TO REAR DOOR LH HARNESS
6	–	TO REAR DOOR LH HARNESS
7	–	TO REAR DOOR LH HARNESS
8	Y	TO REAR DOOR LH HARNESS
9	–	TO REAR DOOR LH HARNESS
10	–	TO REAR DOOR LH HARNESS
11	R	TO REAR DOOR LH HARNESS
12	P	TO REAR DOOR LH HARNESS

Connector No.	B53
Connector Name	SATELLITE ANTENNA
Connector Type	FAKRA CODING C
Connector Color	PINK

H.S.

Terminal No.	Color of Wire	Signal Name
37	B	SAT ANT
38	SHIELD	SHIELD

Connector No.	B57
Connector Name	WIRE TO WIRE
Connector Type	CT16C-1S-HU (B)
Connector Color	GREEN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	SAT ANT
2	SHIELD	SHIELD

Connector No.	B59
Connector Name	BLUETOOTH® CONTROL UNIT
Connector Type	FAKRA CODING C
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
43	B	BT ANTENNA
44	SHIELD	BT SHIELD

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BASE AUDIO SYSTEM CONNECTORS

Connector No.	B61
Connector Name	JOINT CONNECTOR-B18
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	M CAN-H
2	SB	M CAN-H
3	SB	M CAN-H
4	–	–

Connector No.	B62
Connector Name	JOINT CONNECTOR-B19
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	M CAN-L
2	LG	M CAN-L
3	LG	M CAN-L
4	–	–

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	–	TO MAIN HARNESS
2A	Y	TO MAIN HARNESS
3A	Y	TO MAIN HARNESS
4A	G	TO MAIN HARNESS
5A	–	TO MAIN HARNESS
6A	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	R	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	BR	TO MAIN HARNESS
8A	G	TO MAIN HARNESS
9A	P	TO MAIN HARNESS
10A	–	TO MAIN HARNESS
11A	W	TO MAIN HARNESS
12A	G	TO MAIN HARNESS
13A	–	TO MAIN HARNESS
14A	R	TO MAIN HARNESS
15A	G	TO MAIN HARNESS
16A	W	TO MAIN HARNESS
17A	B	TO MAIN HARNESS
18A	B	TO MAIN HARNESS
19A	SHIELD	TO MAIN HARNESS
20A	W	TO MAIN HARNESS
21A	SHIELD	TO MAIN HARNESS
22A	–	TO MAIN HARNESS
23A	W	TO MAIN HARNESS
24A	B	TO MAIN HARNESS
25A	SHIELD	TO MAIN HARNESS
26A	B	TO MAIN HARNESS
27A	B	TO MAIN HARNESS
28A	SHIELD	TO MAIN HARNESS
29A	R	TO MAIN HARNESS
30A	B	TO MAIN HARNESS
31A	BR	TO MAIN HARNESS
32A	–	TO MAIN HARNESS
33A	W	TO MAIN HARNESS
34A	B	TO MAIN HARNESS
35A	SHIELD	TO MAIN HARNESS
36A	–	TO MAIN HARNESS
37A	LG	TO MAIN HARNESS
38A	V	TO MAIN HARNESS
39A	SB	TO MAIN HARNESS
40A	BR	TO MAIN HARNESS
41A	Y	TO MAIN HARNESS
42A	–	TO MAIN HARNESS
43A	–	TO MAIN HARNESS
44A	V	TO MAIN HARNESS
45A	G	TO MAIN HARNESS
46A	V	TO MAIN HARNESS
47A	L	TO MAIN HARNESS
48A	SB	TO MAIN HARNESS
49A	G	TO MAIN HARNESS
50A	W	TO MAIN HARNESS
51A	–	TO MAIN HARNESS
52A	–	TO MAIN HARNESS
53A	R	TO MAIN HARNESS
54A	SB	TO MAIN HARNESS
55A	LG	TO MAIN HARNESS
56A	Y	TO MAIN HARNESS
57A	SB	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
57A	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
58A	BR	TO MAIN HARNESS
59A	BR	TO MAIN HARNESS
60A	L	TO MAIN HARNESS
61A	Y	TO MAIN HARNESS
62A	–	TO MAIN HARNESS
63A	P	TO MAIN HARNESS
64A	R	TO MAIN HARNESS
65A	SB	TO MAIN HARNESS
66A	L	TO MAIN HARNESS
67A	LG	TO MAIN HARNESS
68A	P	TO MAIN HARNESS
69A	W	TO MAIN HARNESS
70A	G	TO MAIN HARNESS
71A	BR	TO MAIN HARNESS
72A	–	TO MAIN HARNESS
73A	Y	TO MAIN HARNESS
74A	P	TO MAIN HARNESS
75A	V	TO MAIN HARNESS
76A	R	TO MAIN HARNESS
77A	Y	TO MAIN HARNESS
78A	LG	TO MAIN HARNESS
79A	BR	TO MAIN HARNESS
80A	Y	TO MAIN HARNESS
81A	L	TO MAIN HARNESS
82A	BG	TO MAIN HARNESS
83A	Y	TO MAIN HARNESS
84A	LG	TO MAIN HARNESS
85A	SHIELD	TO MAIN HARNESS
86A	LG	TO MAIN HARNESS
87A	SB	TO MAIN HARNESS
88A	BG	TO MAIN HARNESS
89A	L	TO MAIN HARNESS
90A	P	TO MAIN HARNESS
91A	L	TO MAIN HARNESS
92A	LG	TO MAIN HARNESS
93A	B	TO MAIN HARNESS
94A	–	TO MAIN HARNESS
95A	–	TO MAIN HARNESS
96A	–	TO MAIN HARNESS
97A	BR	TO MAIN HARNESS
98A	L	TO MAIN HARNESS
99A	–	TO MAIN HARNESS
100A	–	TO MAIN HARNESS

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BASE AUDIO SYSTEM CONNECTORS

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	W	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	R	TO MAIN HARNESS
5	V	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO MAIN HARNESS
10	G	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	P	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	L	TO MAIN HARNESS
18	P	TO MAIN HARNESS
19	LG	TO MAIN HARNESS
20	BR	TO MAIN HARNESS
21	LG	TO MAIN HARNESS
22	LG	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	V	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
24	BR	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
25	SB	TO MAIN HARNESS
26	LG	TO MAIN HARNESS
27	Y	TO MAIN HARNESS
28	Y	TO MAIN HARNESS
29	SB	TO MAIN HARNESS
30	LG	TO MAIN HARNESS
31	G	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B139
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR RH HARNESS
2	–	TO REAR DOOR RH HARNESS
3	B	TO REAR DOOR RH HARNESS
4	G	TO REAR DOOR RH HARNESS
5	–	TO REAR DOOR RH HARNESS
6	BR	TO REAR DOOR RH HARNESS
7	Y	TO REAR DOOR RH HARNESS
8	Y	TO REAR DOOR RH HARNESS
9	–	TO REAR DOOR RH HARNESS
10	–	TO REAR DOOR RH HARNESS
11	SB	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
11	W	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
12	LG	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
12	G	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	Y	TO MAIN HARNESS
3	G/B	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	Y	TO MAIN HARNESS
8	W	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	V	TO MAIN HARNESS
11	BR	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	L	TO MAIN HARNESS
14	SHIELD	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	W	TO MAIN HARNESS

Connector No.	D12
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	TK02FBR
Connector Color	WHITE

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR DOOR LH+ OUT
2	W	FR DOOR LH- OUT

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS
Connector Color	WHITE

H.S.

4	3	2	1
10	9	8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	L	TO MAIN HARNESS
5	BR	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	LG	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	W	TO MAIN HARNESS
10	W	TO MAIN HARNESS

Connector No.	D112
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	TK02FBR
Connector Color	WHITE

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR DOOR RH+ OUT
2	W	FR DOOR RH- OUT

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	BR	TO BODY HARNESS
2	L	TO BODY HARNESS
3	B	TO BODY HARNESS
4	SB	TO BODY HARNESS
5	–	TO BODY HARNESS
6	–	TO BODY HARNESS
7	–	TO BODY HARNESS
8	V	TO BODY HARNESS
9	R/W	TO BODY HARNESS
10	R/G	TO BODY HARNESS
11	Y	TO BODY HARNESS
12	LG	TO BODY HARNESS

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BASE AUDIO SYSTEM CONNECTORS

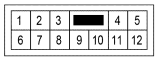
Connector No.	D206
Connector Name	REAR DOOR SPEAKER LH (WITH BASE AUDIO SYSTEM)
Connector Type	NS02FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	RR DOOR LH+ OUT
2	Y	RR DOOR LH- OUT

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W/V	TO BODY HARNESS RH
2	–	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	V	TO BODY HARNESS RH
5	–	TO BODY HARNESS RH
6	Y	TO BODY HARNESS RH
7	LG	TO BODY HARNESS RH
8	SB	TO BODY HARNESS RH
9	R/W	TO BODY HARNESS RH
10	R/G	TO BODY HARNESS RH
11	G	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH

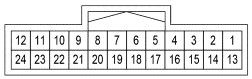
Connector No.	D306
Connector Name	REAR DOOR SPEAKER RH (WITH BASE AUDIO SYSTEM)
Connector Type	NS02FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	RR DOOR RH+ OUT
2	G	RR DOOR RH- OUT

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

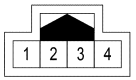
H.S.



Terminal No.	Color of Wire	Signal Name
1	BR	TO BODY HARNESS
2	BG	TO BODY HARNESS
3	V	TO BODY HARNESS
4	LG	TO BODY HARNESS
5	G	TO BODY HARNESS
6	SB	TO BODY HARNESS
7	L	TO BODY HARNESS
8	R	TO BODY HARNESS
9	G	TO BODY HARNESS
10	W	TO BODY HARNESS
11	P	TO BODY HARNESS
12	Y	TO BODY HARNESS
13	W	TO BODY HARNESS
14	B	TO BODY HARNESS
15	R	TO BODY HARNESS
16	SHIELD	TO BODY HARNESS
17	G	TO BODY HARNESS
18	–	TO BODY HARNESS
19	W	TO BODY HARNESS
20	W	TO BODY HARNESS
21	W	TO BODY HARNESS
22	LG	TO BODY HARNESS
23	Y	TO BODY HARNESS
24	LG	TO BODY HARNESS

Connector No.	D504
Connector Name	REAR VIEW CAMERA (WITHOUT NAVI)
Connector Type	TH04MW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W	CAMERA VCC
2	B	CAMERA GND
3	R	CAMERA COMP+
4	SHIELD	CAMERA COMP–

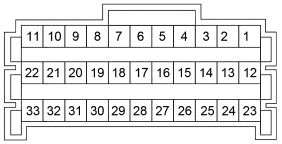
Connector No.	E22
Connector Name	ACCESSORY RELAY-2
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	ACC RELAY OUT
2	B	GROUND
3	R	BATT
5	P	ACC

Connector No.	E44
Connector Name	JOINT CONNECTOR-E01
Connector Type	BJ30FW
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W	SENSOR POWER SUPPLY
2	W	SENSOR POWER SUPPLY
3	W	SENSOR POWER SUPPLY
4	R	BATTERY
5	R	BATTERY
6	R	BATTERY
7	–	–
8	LG	BATTERY
9	LG	BATTERY
10	LG	BATTERY
11	LG	BATTERY
12	P	BATTERY
13	P	BATTERY
14	P	BATTERY
15	GR	GND
16	B	GND
17	B	GND
18	–	–
19	Y	BATTERY
20	Y	BATTERY
21	Y	BATTERY
22	Y	BATTERY
23	BG	EVAP CONTROL SYSTEM PRESSURE SENSOR
24	O	EVAP CONTROL SYSTEM PRESSURE SENSOR
25	–	–
26	G	GND
27	G	GND
28	G	GND
29	–	–
30	V	BATTERY
31	LG	BATTERY
32	V	BATTERY
33	V	BATTERY

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BASE AUDIO SYSTEM CONNECTORS

Connector No.	E52
Connector Name	PARKING BRAKE SWITCH
Connector Type	P01FB-A
Connector Color	BLACK

H.S.

1

Terminal No.	Color of Wire	Signal Name
1	LG	PKB

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	W	TO MAIN HARNESS
3G	P	TO MAIN HARNESS
4G	R	TO MAIN HARNESS
5G	P	TO MAIN HARNESS
6G	W	TO MAIN HARNESS
7G	SHIELD	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	LG	TO MAIN HARNESS

10G	P	TO MAIN HARNESS
11G	G	TO MAIN HARNESS
12G	P	TO MAIN HARNESS
13G	W	TO MAIN HARNESS
14G	BG	TO MAIN HARNESS
15G	W	TO MAIN HARNESS
16G	R	TO MAIN HARNESS
17G	B	TO MAIN HARNESS
18G	SHIELD	TO MAIN HARNESS
19G	W	TO MAIN HARNESS
20G	G	TO MAIN HARNESS
21G	P	TO MAIN HARNESS
22G	B	TO MAIN HARNESS
23G	SHIELD	TO MAIN HARNESS
24G	R	TO MAIN HARNESS
25G	W	TO MAIN HARNESS
26G	SHIELD	TO MAIN HARNESS
27G	W	TO MAIN HARNESS
28G	R	TO MAIN HARNESS
29G	B	TO MAIN HARNESS
30G	G	TO MAIN HARNESS
31G	L	TO MAIN HARNESS
32G	LG	TO MAIN HARNESS
33G	LG	TO MAIN HARNESS
34G	W	TO MAIN HARNESS
35G	P	TO MAIN HARNESS
36G	L	TO MAIN HARNESS
37G	BG	TO MAIN HARNESS
38G	W	TO MAIN HARNESS
39G	W	TO MAIN HARNESS
40G	Y	TO MAIN HARNESS
41G	BG	TO MAIN HARNESS
42G	P	TO MAIN HARNESS
43G	R	TO MAIN HARNESS
44G	W	TO MAIN HARNESS
45G	Y	TO MAIN HARNESS
46G	SB	TO MAIN HARNESS
47G	V	TO MAIN HARNESS
48G	BR	TO MAIN HARNESS
49G	W	TO MAIN HARNESS
50G	G	TO MAIN HARNESS
51G	B/W	TO MAIN HARNESS
52G	BR	TO MAIN HARNESS
53G	L	TO MAIN HARNESS
54G	P	TO MAIN HARNESS
55G	BR	TO MAIN HARNESS
56G	R	TO MAIN HARNESS
57G	P	TO MAIN HARNESS
58G	BG	TO MAIN HARNESS
59G	W	TO MAIN HARNESS
60G	B	TO MAIN HARNESS
61G	SHIELD	TO MAIN HARNESS
62G	P	TO MAIN HARNESS

63G	L	TO MAIN HARNESS
64G	R	TO MAIN HARNESS
65G	G/R	TO MAIN HARNESS
66G	R	TO MAIN HARNESS
67G	BG	TO MAIN HARNESS
68G	LG/R	TO MAIN HARNESS
69G	W	TO MAIN HARNESS
70G	G	TO MAIN HARNESS
71G	GR	TO MAIN HARNESS
72G	–	TO MAIN HARNESS
73G	–	TO MAIN HARNESS
74G	–	TO MAIN HARNESS
75G	G	TO MAIN HARNESS
76G	Y	TO MAIN HARNESS
77G	BR	TO MAIN HARNESS
78G	–	TO MAIN HARNESS
79G	P	TO MAIN HARNESS
80G	G	TO MAIN HARNESS
81G	R	TO MAIN HARNESS
82G	–	TO MAIN HARNESS
83G	–	TO MAIN HARNESS
84G	–	TO MAIN HARNESS
85G	–	TO MAIN HARNESS
86G	–	TO MAIN HARNESS
87G	–	TO MAIN HARNESS
88G	–	TO MAIN HARNESS
89G	R	TO MAIN HARNESS
90G	L	TO MAIN HARNESS
91G	L	TO MAIN HARNESS
92G	–	TO MAIN HARNESS
93G	–	TO MAIN HARNESS
94G	Y	TO MAIN HARNESS
95G	W	TO MAIN HARNESS
96G	–	TO MAIN HARNESS
97G	–	TO MAIN HARNESS
98G	–	TO MAIN HARNESS
99G	–	TO MAIN HARNESS
100G	SHIELD	TO MAIN HARNESS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	SB	TO ROOM LAMP HARNESS
2	LG	TO ROOM LAMP HARNESS
3	R	TO ROOM LAMP HARNESS
4	–	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	LG	TO ROOM LAMP HARNESS
7	L	TO ROOM LAMP HARNESS
8	Y	TO ROOM LAMP HARNESS
9	W	TO ROOM LAMP HARNESS
10	LG	TO ROOM LAMP HARNESS
11	BR	TO ROOM LAMP HARNESS
12	R/G	TO ROOM LAMP HARNESS
13	W	TO ROOM LAMP HARNESS
14	B	TO ROOM LAMP HARNESS
15	SHIELD	TO ROOM LAMP HARNESS
16	R	TO ROOM LAMP HARNESS
17	W	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	G	TO ROOM LAMP HARNESS
20	BR	TO ROOM LAMP HARNESS
21	LG	TO ROOM LAMP HARNESS
22	Y	TO ROOM LAMP HARNESS
23	P	TO ROOM LAMP HARNESS
24	B	TO ROOM LAMP HARNESS

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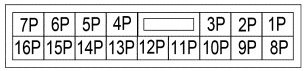
BASE AUDIO SYSTEM CONNECTORS

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE

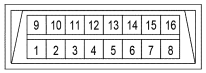
H.S.



Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	LG	IGNITION
3P	G	IGN ELEC RELAY OUT 2
4P	–	–
5P	P	IGNITION
6P	BG	REAR DEFOGGER RELAY OUT
7P	LG	IGNITION
8P	BG	IGNITION
9P	L	BATTERY
10P	BR	IGNITION
11P	–	–
12P	–	–
13P	W	BATTERY
14P	Y	BATTERY
15P	L	BATT
16P	W	BLOWER FAN RELAY OUT

Connector No.	M22
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW
Connector Color	WHITE

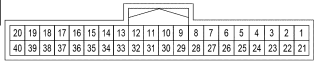
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	LG	M-CAN-L
4	B	GROUND
5	B	GROUND
6	L	CAN-H
7	R	KLINE
8	LG	IGN SW
9	–	–
10	–	–
11	SB	M-CAN-H
12	P	CAN-L
13	L	CAN-H
14	P	CAN-L
15	–	–
16	BG	POWER

Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	GND1
2	B	GND2
3	P	STRG SW INPUT 1
4	BG	STRG SW INPUT 2
5	P	ACC
6	V	SECURITY
7	R	AIR BAG
8	G	AS BELT
9	Y	DR BUCKLE SW
10	–	–
11	BG	ALTERNATOR (CHARGE)
12	G	PKB
13	–	–
14	G	STRG SW OUTPUT 1
15	W	STRG SW OUTPUT 2
16	B	STRG SW OUTPUT GND
17	–	–
18	–	–
19	–	–
20	–	–
21	BG	IGN
22	W	BAT
23	B	ILLUMI CONT OUT
24	R	STRG SW GND
25	G	BRAKE OIL SW
26	R	FUEL SENSOR GND
27	W	FUEL SENSOR
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	BR	SPEED 2 P/R
34	BG	SPEED 8 P/R
35	–	–
36	–	–
37	–	–
38	P	CAN-L
39	L	CAN-H
40	–	–

Connector No.	M30
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
24	P	AUDIO STRG SW REMOTE A
25	W	ASCD
31	BG	AUDIO STRG SW REMOTE B
32	G	ASCDG
33	R	AUDIO STRG SW GND

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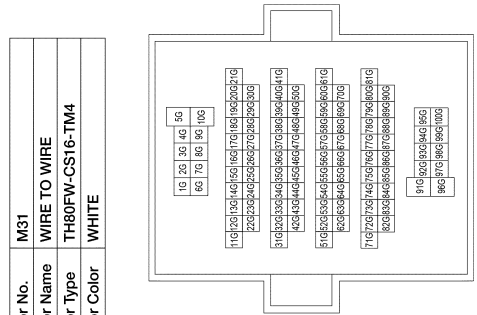
BASE AUDIO SYSTEM CONNECTORS

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.



20G	LG	TO ENGINE ROOM HARNESS	
21G	R	TO ENGINE ROOM HARNESS	
22G	B	TO ENGINE ROOM HARNESS	
23G	SHIELD	TO ENGINE ROOM HARNESS	
24G	W	TO ENGINE ROOM HARNESS	
25G	R	TO ENGINE ROOM HARNESS	
26G	SHIELD	TO ENGINE ROOM HARNESS	
27G	B	TO ENGINE ROOM HARNESS	
28G	W	TO ENGINE ROOM HARNESS	
29G	G	TO ENGINE ROOM HARNESS	
30G	R	TO ENGINE ROOM HARNESS	
31G	L	TO ENGINE ROOM HARNESS	
32G	G	TO ENGINE ROOM HARNESS	
33G	G	TO ENGINE ROOM HARNESS	
34G	G	TO ENGINE ROOM HARNESS	
35G	P	TO ENGINE ROOM HARNESS	
36G	L	TO ENGINE ROOM HARNESS	
37G	L	TO ENGINE ROOM HARNESS	
38G	W	TO ENGINE ROOM HARNESS	
39G	R	TO ENGINE ROOM HARNESS	
40G	Y	TO ENGINE ROOM HARNESS	
41G	L	TO ENGINE ROOM HARNESS	
42G	P	TO ENGINE ROOM HARNESS	
43G	W	TO ENGINE ROOM HARNESS	
44G	G	TO ENGINE ROOM HARNESS	
45G	R	TO ENGINE ROOM HARNESS	
46G	Y	TO ENGINE ROOM HARNESS	
47G	Y	TO ENGINE ROOM HARNESS	
48G	LG	TO ENGINE ROOM HARNESS	
49G	P	TO ENGINE ROOM HARNESS	
50G	L	TO ENGINE ROOM HARNESS	
51G	B/W	TO ENGINE ROOM HARNESS	
52G	BR	TO ENGINE ROOM HARNESS	
53G	L	TO ENGINE ROOM HARNESS	
54G	BG	TO ENGINE ROOM HARNESS	
55G	G	TO ENGINE ROOM HARNESS	
56G	P	TO ENGINE ROOM HARNESS	
57G	P	TO ENGINE ROOM HARNESS	
58G	L	TO ENGINE ROOM HARNESS	
59G	B	TO ENGINE ROOM HARNESS	
60G	W	TO ENGINE ROOM HARNESS	
61G	SHIELD	TO ENGINE ROOM HARNESS	
62G	G	TO ENGINE ROOM HARNESS	
63G	P	TO ENGINE ROOM HARNESS	
64G	W	TO ENGINE ROOM HARNESS	
65G	G/R	TO ENGINE ROOM HARNESS	
66G	R	TO ENGINE ROOM HARNESS	
67G	W	TO ENGINE ROOM HARNESS	
68G	LG/R	TO ENGINE ROOM HARNESS	
69G	P	TO ENGINE ROOM HARNESS	
70G	BG	TO ENGINE ROOM HARNESS	
71G	GR	TO ENGINE ROOM HARNESS	
72G	–	TO ENGINE ROOM HARNESS	
73G	–	TO ENGINE ROOM HARNESS	
74G	–	TO ENGINE ROOM HARNESS	
75G	G	TO ENGINE ROOM HARNESS	
76G	Y	TO ENGINE ROOM HARNESS	
77G	BR	TO ENGINE ROOM HARNESS	
78G	–	TO ENGINE ROOM HARNESS	
79G	R	TO ENGINE ROOM HARNESS	
80G	W	TO ENGINE ROOM HARNESS	
81G	G	TO ENGINE ROOM HARNESS	
82G	P	TO ENGINE ROOM HARNESS	
83G	P	TO ENGINE ROOM HARNESS	
84G	P	TO ENGINE ROOM HARNESS	
85G	P	TO ENGINE ROOM HARNESS	
86G	P	TO ENGINE ROOM HARNESS	
87G	P	TO ENGINE ROOM HARNESS	
88G	P	TO ENGINE ROOM HARNESS	
89G	R	TO ENGINE ROOM HARNESS	
90G	P	TO ENGINE ROOM HARNESS	
91G	L	TO ENGINE ROOM HARNESS	
92G	P	TO ENGINE ROOM HARNESS	
93G	P	TO ENGINE ROOM HARNESS	
94G	O	TO ENGINE ROOM HARNESS	
95G	B	TO ENGINE ROOM HARNESS	
96G	P	TO ENGINE ROOM HARNESS	
97G	P	TO ENGINE ROOM HARNESS	
98G	P	TO ENGINE ROOM HARNESS	
99G	P	TO ENGINE ROOM HARNESS	
100G	SHIELD	TO ENGINE ROOM HARNESS	

Terminal No.	Color of Wire	Signal Name
1G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
1G	P	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
2G	W	TO ENGINE ROOM HARNESS
3G	P	TO ENGINE ROOM HARNESS
4G	G	TO ENGINE ROOM HARNESS
5G	P	TO ENGINE ROOM HARNESS
6G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6G	R	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7G	SHIELD	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	BG	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R	TO ENGINE ROOM HARNESS
12G	G	TO ENGINE ROOM HARNESS
13G	G	TO ENGINE ROOM HARNESS
14G	V	TO ENGINE ROOM HARNESS
15G	W	TO ENGINE ROOM HARNESS
16G	R	TO ENGINE ROOM HARNESS
17G	B	TO ENGINE ROOM HARNESS
18G	SHIELD	TO ENGINE ROOM HARNESS
19G	SB	TO ENGINE ROOM HARNESS

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BASE AUDIO SYSTEM CONNECTORS

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	GR	TO BODY HARNESS
2A	BR	TO BODY HARNESS
3A	Y	TO BODY HARNESS
4A	V	TO BODY HARNESS
5A	L/B	TO BODY HARNESS
6A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	G	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	Y	TO BODY HARNESS
8A	W	TO BODY HARNESS
9A	L	TO BODY HARNESS
10A	R	TO BODY HARNESS
11A	R	TO BODY HARNESS
12A	BG	TO BODY HARNESS
13A	O	TO BODY HARNESS
14A	LG	TO BODY HARNESS
15A	R	TO BODY HARNESS
16A	G	TO BODY HARNESS
17A	B	TO BODY HARNESS
18A	B	TO BODY HARNESS
19A	SHIELD	TO BODY HARNESS
20A	B	TO BODY HARNESS
21A	SHIELD	TO BODY HARNESS
22A	–	TO BODY HARNESS
23A	W	TO BODY HARNESS
24A	B	TO BODY HARNESS
25A	SHIELD	TO BODY HARNESS
26A	B	TO BODY HARNESS
27A	B	TO BODY HARNESS
28A	SHIELD	TO BODY HARNESS
29A	R	TO BODY HARNESS
30A	B	TO BODY HARNESS
31A	R	TO BODY HARNESS
32A	Y/R	TO BODY HARNESS
33A	W	TO BODY HARNESS
34A	B	TO BODY HARNESS
35A	SHIELD	TO BODY HARNESS
36A	L/Y	TO BODY HARNESS
37A	LG	TO BODY HARNESS
38A	V	TO BODY HARNESS
39A	SB	TO BODY HARNESS
40A	BR	TO BODY HARNESS
41A	Y	TO BODY HARNESS
42A	G	TO BODY HARNESS
43A	–	TO BODY HARNESS
44A	W	TO BODY HARNESS
45A	R	TO BODY HARNESS
46A	BG	TO BODY HARNESS
47A	LG	TO BODY HARNESS
48A	R	TO BODY HARNESS
49A	P	TO BODY HARNESS
50A	W	TO BODY HARNESS
51A	L	TO BODY HARNESS
52A	P	TO BODY HARNESS
53A	G	TO BODY HARNESS
54A	W	TO BODY HARNESS
55A	BG	TO BODY HARNESS
56A	BR	TO BODY HARNESS
57A	P	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
57A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
58A	G	TO BODY HARNESS
59A	SB	TO BODY HARNESS
60A	L	TO BODY HARNESS
61A	G	TO BODY HARNESS
62A	BR	TO BODY HARNESS
63A	BR	TO BODY HARNESS
64A	Y	TO BODY HARNESS
65A	W	TO BODY HARNESS
66A	BG	TO BODY HARNESS
67A	Y	TO BODY HARNESS
68A	LG	TO BODY HARNESS
69A	R	TO BODY HARNESS
70A	P	TO BODY HARNESS
71A	BR	TO BODY HARNESS
72A	SB	TO BODY HARNESS
73A	BG	TO BODY HARNESS
74A	BR	TO BODY HARNESS
75A	LG	TO BODY HARNESS
76A	W	TO BODY HARNESS
77A	L	TO BODY HARNESS
78A	V	TO BODY HARNESS
79A	LG	TO BODY HARNESS
80A	Y	TO BODY HARNESS
81A	L	TO BODY HARNESS
82A	BG	TO BODY HARNESS
83A	Y	TO BODY HARNESS
84A	LG	TO BODY HARNESS
85A	SHIELD	TO BODY HARNESS
86A	Y	TO BODY HARNESS
87A	LG	TO BODY HARNESS
88A	BR	TO BODY HARNESS
89A	L	TO BODY HARNESS
90A	P	TO BODY HARNESS
91A	L	TO BODY HARNESS
92A	L	TO BODY HARNESS
93A	B	TO BODY HARNESS
94A	W	TO BODY HARNESS
95A	W	TO BODY HARNESS
96A	–	TO BODY HARNESS
97A	SB	TO BODY HARNESS
98A	Y	TO BODY HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
98A	L	TO BODY HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
99A	–	TO BODY HARNESS
100A	–	TO BODY HARNESS

Connector No.	M42
Connector Name	AV CONTROL UNIT (WITH BASE AUDIO SYSTEM)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	B	TEL VOICE-
5	W	TEL VOICE+
6	SHIELD	SHIELD
7	–	–
8	–	–
9	–	–
10	V	GND
11	L	CAN-H
12	P	CAN-L
13	SB	M-CAN1 H
14	LG	M-CAN1 L
15	SB	M-CAN2 H TRM
16	LG	M-CAN2 L TRM
17	–	–
18	–	–
19	–	–
20	R	AUX AUDIO RH+
21	W	AUX AUDIO LH+
22	B	AUX GND
23	–	–
24	–	–
25	SHIELD	SHIELD
26	–	–
27	–	–
28	Y	CD (DVD) EJECT
29	LG	IGN
30	R	REVERSE SIG
31	G	PKB SIG
32	BG	SPEED 8P

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BASE AUDIO SYSTEM CONNECTORS

Connector No.	M44
Connector Name	AV CONTROL UNIT (WITH BASE AUDIO SYSTEM)
Connector Type	NH18FW-CS2
Connector Color	WHITE

H.S.

51	42	43	44	45	46	47	48	49	50	52
				33	34	35	36	37	38	39	40	41

Terminal No.	Color of Wire	Signal Name
33	–	–
34	SB	FR LH SP+
35	V	FR LH SP-
36	BR	RR LH SP+
37	Y	RR LH SP-
38	G	STRG SW
39	P	ACC
40	–	–
41	R	ILL
42	–	–
43	BR	FR RH SP+
44	Y	FR RH SP-
45	L	RR RH SP+
46	SB	RR RH SP-
47	B	STRG SW GND
48	W	STRG SW B
49	–	–
50	–	–
51	Y	+B
52	GR	GND

54	W	COMP OUT+
55	W	B
56	B	G
57	R	R
58	B	RGB SYN
59	SHIELD	RGB SYN GND
60	W	YS
61	B	DISP IT
62	G	HP
63	B	SIG GND
64	V	SIG VC
65	–	–
66	SHIELD	SHIELD
67	SHIELD	SHIELD
68	–	–
69	–	–
70	–	–
71	–	–
72	SHIELD	SHIELD
73	W	IT DISP
74	R	VP
75	LG	INV GND
76	L	INV VC

Connector No.	M46
Connector Name	AV CONTROL UNIT (WITH BASE AUDIO SYSTEM)
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

92	91	90	89	88	87	86	85
84	83	82	81	80	79	78	77

Connector No.	M45
Connector Name	AV CONTROL UNIT (WITH BASE AUDIO SYSTEM)
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

76	75	74	73	72	71	70	69	68	67	66	65
64	63	62	61	60	59	58	57	56	55	54	53

Terminal No.	Color of Wire	Signal Name
77	–	–
78	–	–
79	–	–
80	–	–
81	–	–
82	W	COMP2 IN +
83	W	COMP1 IN +
84	–	–
85	–	–
86	–	–
87	R	CAM 6.2
88	B	CAM GND
89	SHIELD	SHIELD
90	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name
53	B	COMP OUT-

91	B	COMP IN
92	–	–

Connector No.	M51
Connector Name	AV CONTROL UNIT (WITH BASE AUDIO SYSTEM)
Connector Type	A12FW
Connector Color	WHITE

H.S.

94	96	102	104
93	95	97	98	99	100	101	103

Terminal No.	Color of Wire	Signal Name
93	W	N BUS LH-
94	B	N BUS LH+
95	R	N BUS RH-
96	G	N BUS RH+
97	SHIELD	SHIELD
98	SHIELD	SHIELD
99	–	–
100	W	REQ1
101	B	TX
102	R	RX
103	–	–
104	–	–

Connector No.	M55
Connector Name	AV CONTROL UNIT
Connector Type	GT17HN-4DP-2H(A)
Connector Color	BLUE

H.S.

138	137
140	139
141	

Terminal No.	Color of Wire	Signal Name
137	R	VBUS
138	B	USB GND
139	G	USB D+
140	W	USB D-
141	SHIELD	SHIELD

Connector No.	M62
Connector Name	INSTRUMENT PANEL TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	- (WITH BOSE AUDIO SYSTEM)
1	SB	- (WITH BASE AUDIO SYSTEM)
2	W	- (WITH BOSE AUDIO SYSTEM)
2	V	- (WITH BASE AUDIO SYSTEM)

Connector No.	M64
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO CONSOLE SUB HARNESS
2	B	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	LG	TO CONSOLE SUB HARNESS
5	SHIELD	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	BG	TO CONSOLE SUB HARNESS
9	B	TO CONSOLE SUB HARNESS
10	–	TO CONSOLE SUB HARNESS
11	B/W	TO CONSOLE SUB HARNESS
12	BR	TO CONSOLE SUB HARNESS
13	Y	TO CONSOLE SUB HARNESS
14	SB	TO CONSOLE SUB HARNESS
15	L	TO CONSOLE SUB HARNESS
16	LG	TO CONSOLE SUB HARNESS

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BASE AUDIO SYSTEM CONNECTORS

Connector No.	M65
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SUB HARNESS
2	G	TO CONSOLE SUB HARNESS
3	BR	TO CONSOLE SUB HARNESS
4	BG	TO CONSOLE SUB HARNESS
5	W	TO CONSOLE SUB HARNESS
6	P	TO CONSOLE SUB HARNESS
7	W	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	LG	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	R	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
8	L	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
9	V	TO CONSOLE SUB HARNESS
10	BG	TO CONSOLE SUB HARNESS
11	P	TO CONSOLE SUB HARNESS
12	G	TO CONSOLE SUB HARNESS
13	SHIELD	TO CONSOLE SUB HARNESS
14	B	TO CONSOLE SUB HARNESS
15	R	TO CONSOLE SUB HARNESS
16	W	TO CONSOLE SUB HARNESS
17	SB	TO CONSOLE SUB HARNESS
18	P	TO CONSOLE SUB HARNESS
19	G	TO CONSOLE SUB HARNESS
20	BG	TO CONSOLE SUB HARNESS
21	R	TO CONSOLE SUB HARNESS
22	W	TO CONSOLE SUB HARNESS
23	R	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS
25	G	TO CONSOLE SUB HARNESS
26	W	TO CONSOLE SUB HARNESS
27	LG	TO CONSOLE SUB HARNESS
28	B	TO CONSOLE SUB HARNESS
29	BR	TO CONSOLE SUB HARNESS
30	SHIELD	TO CONSOLE SUB HARNESS
31	B	TO CONSOLE SUB HARNESS
32	W	TO CONSOLE SUB HARNESS

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Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	L	TO BODY HARNESS
2	G	TO BODY HARNESS
3	Y	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
3	R	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
4	P	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
4	SHIELD	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
5	LG	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	W	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	BG	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	SB	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	G	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
9	R	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
10	SHIELD	TO BODY HARNESS
11	B	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
11	W	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
12	W	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
12	B	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
13	Y	TO BODY HARNESS
14	SB	TO BODY HARNESS
15	LG	TO BODY HARNESS
16	LG	TO BODY HARNESS
17	SB	TO BODY HARNESS
18	G	TO BODY HARNESS
19	P	TO BODY HARNESS
20	W	TO BODY HARNESS
21	R	TO BODY HARNESS
22	B	TO BODY HARNESS
23	SHIELD	TO BODY HARNESS
24	–	TO BODY HARNESS

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1R	R	TAIL LH
2R	LG	IGNITION
3R	G	BATTERY
4R	–	–
5R	Y	BATTERY
6R	Y	IGNITION
7R	–	–
8R	–	–
9R	G	BRAKE
10R	W	BATTERY
11R	–	–
12R	–	–
13R	GR	GROUND
14R	–	–
15R	–	–
16R	BG	IGNITION

BASE AUDIO SYSTEM CONNECTORS

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO BODY HARNESS - (WITHOUT NAVI)
1	R	TO BODY HARNESS - (WITH NAVI)
2	B	TO BODY HARNESS - (WITHOUT NAVI)
2	W	TO BODY HARNESS - (WITH NAVI)
3	R	TO BODY HARNESS - (WITHOUT NAVI)
3	B	TO BODY HARNESS - (WITH NAVI)
4	SHIELD	TO BODY HARNESS
5	B	TO BODY HARNESS
6	W	TO BODY HARNESS
7	SHIELD	TO BODY HARNESS
8	B	TO BODY HARNESS
9	SB	TO BODY HARNESS
10	BG	TO BODY HARNESS
11	R	TO BODY HARNESS
12	W	TO BODY HARNESS
13	–	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	L	TO BODY HARNESS
17	P	TO BODY HARNESS - (WITHOUT NAVI)
17	Y	TO BODY HARNESS - (WITH NAVI)
18	Y	TO BODY HARNESS - (WITHOUT NAVI)
18	P	TO BODY HARNESS - (WITH NAVI)
19	W	TO BODY HARNESS - (WITHOUT NAVI)
19	B	TO BODY HARNESS - (WITH NAVI)
20	B	TO BODY HARNESS - (WITHOUT NAVI)
20	W	TO BODY HARNESS - (WITH NAVI)
21	R	TO BODY HARNESS - (WITHOUT NAVI)
21	SHIELD	TO BODY HARNESS - (WITH NAVI)
22	G	TO BODY HARNESS - (WITHOUT NAVI)
22	W	TO BODY HARNESS - (WITH NAVI)
23	SHIELD	TO BODY HARNESS - (WITHOUT NAVI)
23	R	TO BODY HARNESS - (WITH NAVI)
24	SHIELD	TO BODY HARNESS
25	B	TO BODY HARNESS
26	G	TO BODY HARNESS
27	R	TO BODY HARNESS - (WITHOUT NAVI)
27	B	TO BODY HARNESS - (WITH NAVI)
28	B	TO BODY HARNESS - (WITHOUT NAVI)
28	R	TO BODY HARNESS - (WITH NAVI)
29	G	TO BODY HARNESS - (WITH NAVI)
29	W	TO BODY HARNESS - (WITHOUT NAVI)
30	SHIELD	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

Connector No.	M73
Connector Name	INSTRUMENT PANEL TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2 1

Terminal No.	Color of Wire	Signal Name
1	G	- (WITH BOSE AUDIO SYSTEM)
1	BR	- (WITH BASE AUDIO SYSTEM)
2	W	- (WITH BOSE AUDIO SYSTEM)
2	Y	- (WITH BASE AUDIO SYSTEM)

Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK

H.S.

116	115	114	113	112	111	110	109	108	107	106	105
128	127	126	125	124	123	122	121	120	119	118	117

Terminal No.	Color of Wire	Signal Name
105	LG	FR FLASHER
106	–	–
107	W	LOW SIDE START SW LED
108	G	SHIFT LOCK SOLENOID OUT
109	R	REVERSE SIGNAL
110	–	–
111	P	ACC LED
112	–	–
113	L	ACC RELAY OUT
114	W	AS DOOR ANT A
115	BG	AS DOOR ANT B
116	W	ROOM ANT 2 A
117	SB	FL FLASHER
118	–	–
119	R	RF NIMOCO
120	–	–
121	G	DR DOOR ANT B
122	P	DR DOOR ANT A
123	–	–
124	–	–
125	–	–
126	P	IMMO START BUTTON ANT B
127	BG	IMMO START BUTTON ANT A
128	R	ROOM ANT 2 B

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

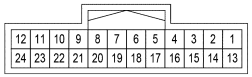
Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	SHIELD	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	P	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS RH
10	G	TO BODY HARNESS RH
11	L	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	P	TO BODY HARNESS RH
15	O	TO BODY HARNESS RH
16	SB	TO BODY HARNESS RH
17	L	TO BODY HARNESS RH
18	P	TO BODY HARNESS RH
19	R	TO BODY HARNESS RH
20	–	TO BODY HARNESS RH
21	G	TO BODY HARNESS RH
22	R	TO BODY HARNESS RH
23	G	TO BODY HARNESS RH
24	R	TO BODY HARNESS RH - (WITH CLIMATE CONTROLLED SEAT)
24	V	TO BODY HARNESS RH - (WITHOUT CLIMATE CONTROLLED SEAT)
25	W	TO BODY HARNESS RH
26	W	TO BODY HARNESS RH
27	BG	TO BODY HARNESS RH
28	V	TO BODY HARNESS RH
29	SB	TO BODY HARNESS RH
30	L	TO BODY HARNESS RH
31	W	TO BODY HARNESS RH
32	–	TO BODY HARNESS RH

ABNIA8898GB

BASE AUDIO SYSTEM CONNECTORS

Connector No.	M93
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH
Connector Color	WHITE

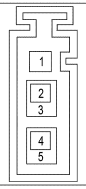
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	GND
2	L	INV VCC
3	V	SIG VCC
4	W	COMP GND
5	SHIELD	COMP SHIELD
6	B	G
7	SHIELD	RGB GND
8	G	HP
9	W	YS
10	–	–
11	W	UART IN
12	–	–
13	LG	INV GND
14	B	SIG GND
15	B	COMP
16	–	–
17	R	R
18	W	B
19	B	RGB SYNC
20	R	VP
21	SHIELD	SYNC GND
22	B	UART OUT
23	SHIELD	UART GND
24	–	–

Connector No.	M95
Connector Name	WIRE TO WIRE
Connector Type	GT13SH-2/1S-HU
Connector Color	GRAY

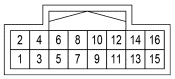
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS

Connector No.	M98
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH
Connector Color	WHITE

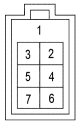
H.S.



Terminal No.	Color of Wire	Signal Name
1	GR	GND
2	–	–
3	P	ACC
4	R	ILL
5	B	ILL CONT
6	SB	MCAN-H
7	–	–
8	LG	MCAN-L
9	V	EJECT GND
10	–	–
11	–	–
12	–	–
13	–	–
14	Y	CD (DVD) EJECT
15	R	AIRBAG CUTOFF
16	LG	HAZARD

Connector No.	M115
Connector Name	WIRE TO WIRE
Connector Type	GT17VS-6DS-HU
Connector Color	GRAY

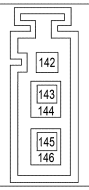
H.S.



Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO CONSOLE SUB HARNESS
2	R	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	W	TO CONSOLE SUB HARNESS
5	–	TO CONSOLE SUB HARNESS
6	G	TO CONSOLE SUB HARNESS
7	–	TO CONSOLE SUB HARNESS

Connector No.	M142
Connector Name	AV CONTROL UNIT (WITH BASE AUDIO SYSTEM)
Connector Type	GT13SH-2/1S-HU
Connector Color	GRAY

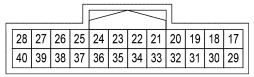
H.S.



Terminal No.	Color of Wire	Signal Name
142	B	ANT +B
143	B	ANT MAIN
144	SHIELD	SHIELD
145	B	ANT SUB
146	SHIELD	SHIELD

Connector No.	M148
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
17	–	–
18	–	–
19	G/W	AIRBAG CUTOFF
20	BR	ILL
21	W/L	ENCD-B 2
22	G	ENCD-PUSH 1
23	L	ENCD-B 1
24	Y	KEY-SCAN IN 2
25	R	KEY-SCAN IN 0
26	W/V	KEY-SCAN OUT 1
27	W/B	KEY-SCAN OUT 3
28	P	CD (DVD) EJECT
29	–	–
30	–	–
31	V	ILL CONT
32	G	ENCD-A 2
33	L/R	ENCD-PUSH 2
34	GR	ENCD-A 1
35	W/R	KEY-SCAN IN 3
36	O	KEY-SCAN IN 1
37	G	KEY-SCAN OUT 0
38	L	KEY-SCAN OUT 2
39	SB	KEY-SCAN OUT 4
40	B	GND

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BASE AUDIO SYSTEM CONNECTORS

Connector No.	M149
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY
Connector Color	GRAY

H.S.

20 19 18 17 16 15 14 13

Terminal No.	Color of Wire	Signal Name
13	R	ASCD
14	B	AUDIO STRG SW REMOTE A
15	GR	AUDIO STRG SW REMOTE B
16	L	ASCDG
17	BR	AUDIO STRG SW GND
18	G	HORN SWITCH
19	Y	ILL CONT
20	W	ILL
15	V	ILL CONT
16	G	ENCD-A 2
17	L/R	ENCD-PUSH 2
18	GR	ENCD-A 1
19	W/R	KEY-SCAN IN 3
20	O	KEY-SCAN IN 1
21	G	KEY-SCAN OUT 0
22	L	KEY-SCAN OUT 2
23	SB	KEY-SCAN OUT 4
24	B	GND

Connector No.	M158
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS
Connector Color	WHITE

H.S.

1 2 3 4
5 6 7 8 9 10

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT DOOR RH HARNESS
2	B	TO FRONT DOOR RH HARNESS
3	SHIELD	TO FRONT DOOR RH HARNESS
4	BR	TO FRONT DOOR RH HARNESS
5	Y	TO FRONT DOOR RH HARNESS
6	L	TO FRONT DOOR RH HARNESS
7	LG	TO FRONT DOOR RH HARNESS
8	GR	TO FRONT DOOR RH HARNESS
9	BR	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
9	G	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
10	Y	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
10	W	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

Connector No.	M155
Connector Name	PRESET SWITCH
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	G/W	AIRBAG CUTOFF
4	BR	ILL
5	W/L	ENCD-B 2
6	G	ENCD-PUSH 1
7	L	ENCD-B 1
8	Y	KEY-SCAN IN 2
9	R	KEY-SCAN IN 0
10	W/V	KEY-SCAN OUT 1
11	W/B	KEY-SCAN OUT 3
12	P	CD (DVD) EJECT
13	–	–
14	–	–

Connector No.	M167
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO FRONT DOOR LH HARNESS
2	V	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	V	TO FRONT DOOR LH HARNESS
5	SB	TO FRONT DOOR LH HARNESS
6	BR	TO FRONT DOOR LH HARNESS
7	Y	TO FRONT DOOR LH HARNESS
8	W	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
8	V	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
9	P	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
9	G	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
9	SB	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
10	L	TO FRONT DOOR LH HARNESS
11	BR	TO FRONT DOOR LH HARNESS
12	Y	TO FRONT DOOR LH HARNESS
13	LG	TO FRONT DOOR LH HARNESS
14	SHIELD	TO FRONT DOOR LH HARNESS
15	B	TO FRONT DOOR LH HARNESS
16	W	TO FRONT DOOR LH HARNESS

Connector No.	M171
Connector Name	JOINT CONNECTOR-M10
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4 3 2 1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	P	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
2	SB	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
3	P	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
3	SB	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
4	P	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
4	SB	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M172
Connector Name	JOINT CONNECTOR-M11
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4 3 2 1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
2	V	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
3	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
3	V	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
4	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
4	V	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)

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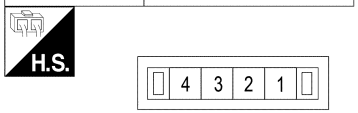
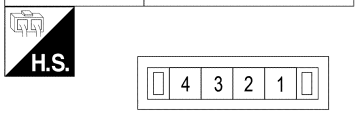
BASE AUDIO SYSTEM CONNECTORS

Connector No.	M173
Connector Name	JOINT CONNECTOR-M12
Connector Type	TK04FW-J
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	–	–
2	G	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
2	BR	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
3	G	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
3	BR	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
4	G	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
4	BR	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M174
Connector Name	JOINT CONNECTOR-M13
Connector Type	TK04FW-J
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
2	Y	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
3	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
3	Y	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
4	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
4	Y	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)

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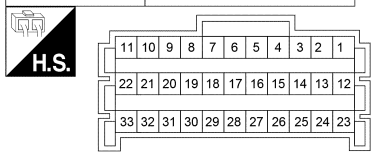
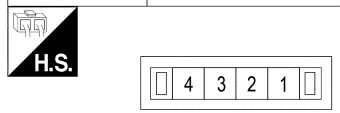
Connector No.	M175
Connector Name	JOINT CONNECTOR-M22
Connector Type	BJ30FW
Connector Color	WHITE



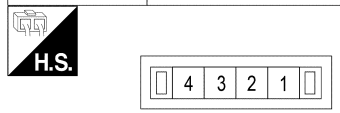
Terminal No.	Color of Wire	Signal Name
1	Y	BATTERY
2	Y	BATTERY
3	Y	BATTERY
4	Y	BATTERY
5	Y	BATTERY
6	Y	BATTERY
7	Y	BATTERY
8	Y	BATTERY
9	Y	BATTERY
10	–	–
11	Y	BATTERY
12	R	BATTERY
13	R	BATTERY
14	R	BATTERY
15	B	ILLUMI CONT OUT
16	B	ILLUMI CONT OUT
17	B	ILLUMI CONT OUT
18	–	–
19	L	DOOR LOCK DR/AS/FL
20	L	DOOR LOCK DR/AS/FL
21	L	DOOR LOCK DR/AS/FL
22	L	DOOR LOCK DR/AS/FL
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	–	–
29	P	ACCESSORY
30	P	ACCESSORY
31	P	ACCESSORY
32	P	ACCESSORY
33	–	–

Connector No.	M176
Connector Name	JOINT CONNECTOR-M56
Connector Type	TK04FW-J
Connector Color	WHITE



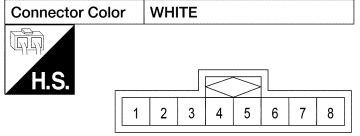
Terminal No.	Color of Wire	Signal Name
1	SB	M CAN–H
2	SB	M CAN–H
3	SB	M CAN–H
4	SB	M CAN–H

Connector No.	M177
Connector Name	JOINT CONNECTOR-M57
Connector Type	TK04FW-J
Connector Color	WHITE



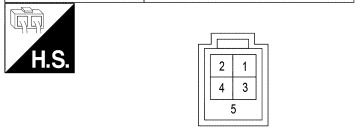
Terminal No.	Color of Wire	Signal Name
1	LG	M CAN–L
2	LG	M CAN–L
3	LG	M CAN–L
4	LG	M CAN–L

Connector No.	M205
Connector Name	FRONT AUXILIARY INPUT JACKS
Connector Type	A08FW
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	W	AUX AUDIO RH+
2	B	AUX GND
3	R	AUX AUDIO LH+
4	–	–
5	–	–
6	–	–
7	W	COMP1 IN +
8	B	COMP1 IN -

Connector No.	M209
Connector Name	USB INTERFACE
Connector Type	HAA04FG
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
1	B	USB GND
2	R	V-BUS
3	W	USB D-
4	G	USB D+
5	SHIELD	SHIELD

BASE AUDIO SYSTEM CONNECTORS

Connector No.	M210
Connector Name	WIRE TO WIRE
Connector Type	GT17VS-6DP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	W	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	G	TO MAIN HARNESS
7	–	TO MAIN HARNESS

Connector No.	M216
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	R	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	B	TO MAIN HARNESS
8	BG	TO MAIN HARNESS
9	B	TO MAIN HARNESS
10	–	TO MAIN HARNESS
11	–	TO MAIN HARNESS
12	BR	TO MAIN HARNESS
13	LG	TO MAIN HARNESS
14	L	TO MAIN HARNESS
15	LG	TO MAIN HARNESS

16	Y	TO MAIN HARNESS

Connector No.	M217
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	BG	TO MAIN HARNESS
3	Y	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	P	TO MAIN HARNESS
7	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	W	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	L	TO MAIN HARNESS
9	G	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
9	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
10	V	TO MAIN HARNESS
11	P	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	SHIELD	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	W	TO MAIN HARNESS
16	R	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	L	TO MAIN HARNESS
19	G	TO MAIN HARNESS
20	Y	TO MAIN HARNESS
21	B	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	R	TO MAIN HARNESS
24	B	TO MAIN HARNESS
25	G	TO MAIN HARNESS
26	W	TO MAIN HARNESS
27	LG	TO MAIN HARNESS
28	B	TO MAIN HARNESS
29	BR	TO MAIN HARNESS
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS

32	W	TO MAIN HARNESS

Connector No.	M230
Connector Name	JOINT CONNECTOR-M01
Connector Type	A06FGY
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	B	GND
3	SHIELD	GND
4	SHIELD	GND
5	–	–
6	–	–

Connector No.	M500
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1 PP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS ANT +B
2	B	TO MAIN HARNESS ANT MAIN
3	SHIELD	TO MAIN HARNESS SHIELD
4	B	TO MAIN HARNESS ANT SUB
5	SHIELD	TO MAIN HARNESS SHIELD

Connector No.	M501
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU (B)
Connector Color	GREEN

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	SAT ANT
5	SHIELD	SAT SHIELD

Connector No.	M502
Connector Name	ANTENNA BASE
Connector Type	GT17VSN-6DP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT +B
2	B	ANT MAIN
3	SHIELD	SHIELD

Connector No.	M503
Connector Name	WIRE TO WIRE
Connector Type	GT13S-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT SUB
2	SHIELD	SHIELD

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BASE AUDIO SYSTEM CONNECTORS

Connector No.	M504
Connector Name	WIRE TO WIRE
Connector Type	GT13S-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT SUB
2	SHIELD	SHIELD

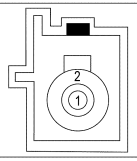
Connector No.	M505
Connector Name	GLASS ANTENNA (FM SUB)
Connector Type	P01FB-A
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT SUB

Connector No.	M507
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU (B)
Connector Color	GREEN

H.S.

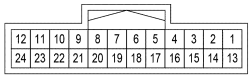


Terminal No.	Color of Wire	Signal Name
1	B	SAT ANT
2	SHIELD	SAT SHIELD

ABNIA8903GB

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

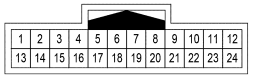
H.S.



Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	W	TO MAIN HARNESS
4	Y/R	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	Y	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	W	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	R/G	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	SHIELD	TO MAIN HARNESS
16	P	TO MAIN HARNESS
17	BG	TO MAIN HARNESS
18	–	TO MAIN HARNESS
19	V	TO MAIN HARNESS
20	W	TO MAIN HARNESS
21	SB	TO MAIN HARNESS
22	L	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	B	TO MAIN HARNESS

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

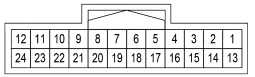
H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO ROOM LAMP HARNESS
2	B	TO ROOM LAMP HARNESS
3	BG	TO ROOM LAMP HARNESS
4	P	TO ROOM LAMP HARNESS
5	SHIELD	TO ROOM LAMP HARNESS
6	B	TO ROOM LAMP HARNESS
7	W	TO ROOM LAMP HARNESS
8	B	TO ROOM LAMP HARNESS
9	B	TO ROOM LAMP HARNESS
10	W	TO ROOM LAMP HARNESS
11	R	TO ROOM LAMP HARNESS
12	G	TO ROOM LAMP HARNESS
13	–	TO ROOM LAMP HARNESS
14	–	TO ROOM LAMP HARNESS
15	L	TO ROOM LAMP HARNESS
16	SB	TO ROOM LAMP HARNESS
17	–	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	–	TO ROOM LAMP HARNESS
20	–	TO ROOM LAMP HARNESS
21	SB	TO ROOM LAMP HARNESS
22	L	TO ROOM LAMP HARNESS
23	BR	TO ROOM LAMP HARNESS
24	V	TO ROOM LAMP HARNESS

Connector No.	R101
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

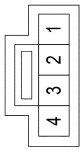


Terminal No.	Color of Wire	Signal Name
1	V	TO ROOM LAMP HARNESS
2	R	TO ROOM LAMP HARNESS
3	G	TO ROOM LAMP HARNESS
4	P	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	L	TO ROOM LAMP HARNESS
7	R	TO ROOM LAMP HARNESS
8	B	TO ROOM LAMP HARNESS
9	B	TO ROOM LAMP HARNESS
10	W	TO ROOM LAMP HARNESS
11	R	TO ROOM LAMP HARNESS
12	G	TO ROOM LAMP HARNESS
13	–	TO ROOM LAMP HARNESS
14	–	TO ROOM LAMP HARNESS
15	L	TO ROOM LAMP HARNESS
16	SB	TO ROOM LAMP HARNESS
17	–	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	–	TO ROOM LAMP HARNESS
20	–	TO ROOM LAMP HARNESS
21	–	TO ROOM LAMP HARNESS
22	–	TO ROOM LAMP HARNESS
23	BR	TO ROOM LAMP HARNESS
24	L	TO ROOM LAMP HARNESS

BASE AUDIO SYSTEM CONNECTORS

Connector No.	R109
Connector Name	MICROPHONE
Connector Type	TK04FW
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	R	MIC VCC
2	–	–
3	GR	MIC GND
4	L	MIC SIG

ABNIA8904GB

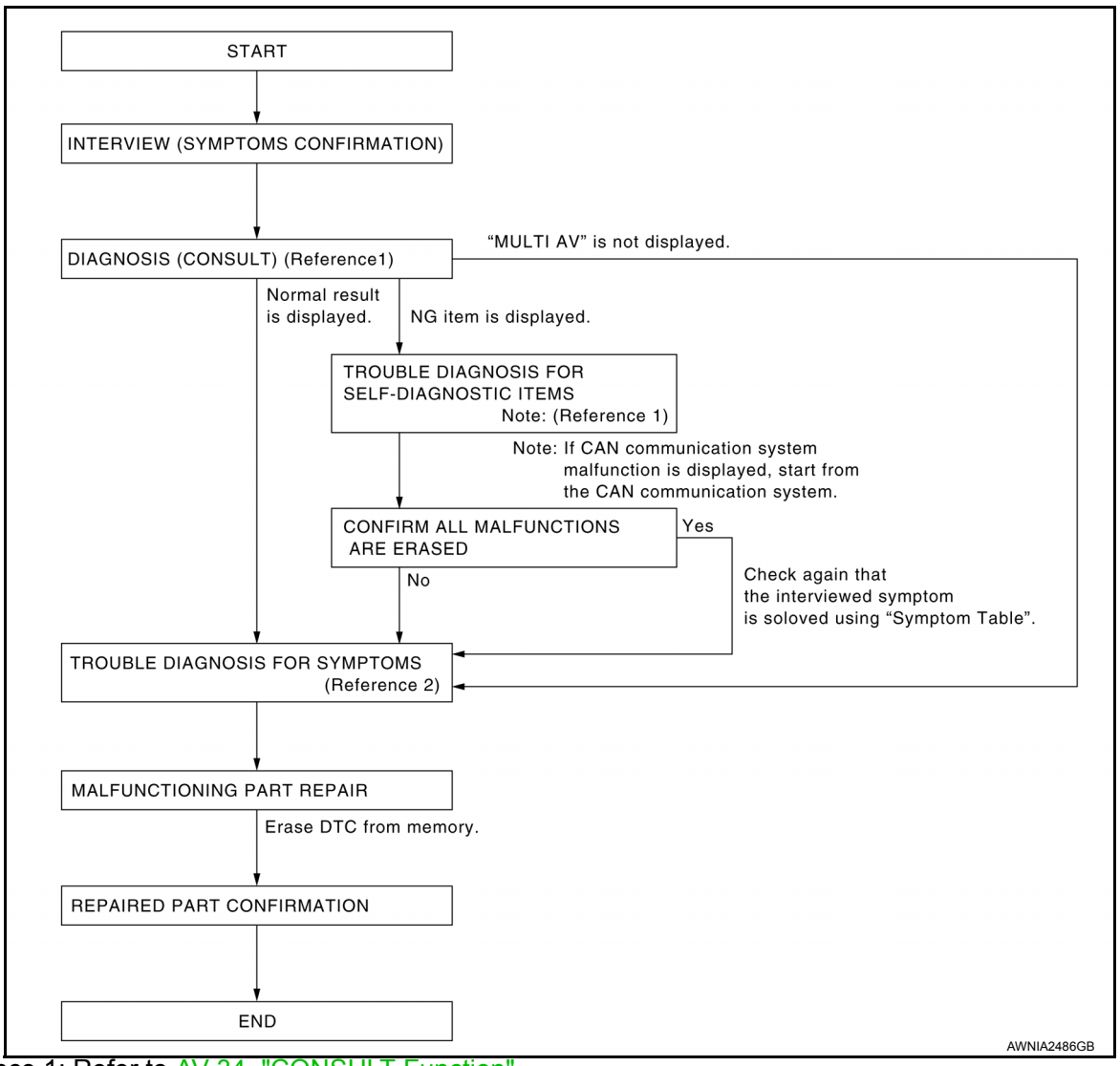
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000012849395

OVERALL SEQUENCE



Reference 1: Refer to AV-34, "CONSULT Function".
Reference 2: Refer to AV-127, "Symptom Table".

DETAILED FLOW

1.CHECK SYMPTOM

Check the malfunction symptoms by performing the following items:
- Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred).
- Check the symptom.

>> GO TO 2

2.SELF-DIAGNOSIS (CONSULT)

1. Connect CONSULT and perform "SELF-DIAGNOSIS" for "MULTI AV".
   NOTE:
   Skip to step 4 of the diagnosis procedure if "MULTI AV" is not displayed.
2. Check if any DTC No. is displayed in the self-diagnosis results.

Is any DTC No. displayed?

YES >> GO TO 3
NO >> GO TO 4

3.CHECK SELF-DIAGNOSIS RESULTS (CONSULT)

1. Check the DTC No. indicated in the self-diagnosis results.
2. Perform the relevant diagnosis referring to the DTC No. list. Refer to AV-43, "DTC Index".

NOTE:
Start with the diagnosis for the CAN communication system if “CAN COMM CIRCUIT [U1000] or CONTROL UNIT (CAN) [U1010]” is displayed.

>> GO TO 5

4.PERFORM DIAGNOSIS BY SYMPTOM

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to AV-127, "Symptom Table".

>> GO TO 5

5.REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace the identified malfunctioning parts.

NOTE:
Erase the stored self-diagnosis results after repairing or replacing the relevant components if any DTC No. has been indicated in the self-diagnosis results.

>> GO TO 6

6.CHECK AFTER REPAIR

1. Perform self-diagnosis for “MULTI AV” with CONSULT after repairing or replacing the malfunctioning parts.
2. Check if any DTC No. is displayed in the self-diagnosis results.

Is any DTC No. displayed?

YES >> GO TO 3
NO >> GO TO 7

7.FINAL CHECK

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

Are any symptoms present?

YES >> GO TO 4
NO >> Inspection End.

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description

INFOID:0000000012849396

BEFORE REPLACEMENT

When replacing AV control unit, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:

If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing AV control unit.

AFTER REPLACEMENT

CAUTION:

When replacing AV control unit, you must perform “After Replace ECU” with CONSULT.

- **Complete the procedure of “After Replace ECU” in order.**
- **If you set incorrect “After Replace ECU”, incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Work Procedure

INFOID:0000000012849397

1. SAVING VEHICLE SPECIFICATION

-CONSULT

Enter “Re/Programming, Configuration” and perform “Before Replace ECU” to save or print current vehicle specification.

NOTE:

If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing AV control unit.

>> GO TO 2.

2. REPLACE AV CONTROL UNIT

Replace AV control unit. Refer to AV-133, "Removal and Installation".

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

CONSULT

1. Enter "Re/Programming, Configuration".
2. If “Before Replace ECU” operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press “Confirm” to write vehicle specification. Refer to AV-77, "CONFIGURATION (AV CONTROL UNIT) : Work Procedure".
3. If “Before Replace ECU” operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to AV-77, "CONFIGURATION (AV CONTROL UNIT) : Work Procedure".

>> GO TO 4.

4. OPERATION CHECK

Check that the operation of the AV control unit and camera images (fixed guide lines and predictive course lines) are normal.

>> Work End.

CONFIGURATION (AV CONTROL UNIT)

CONFIGURATION (AV CONTROL UNIT) : Description

INFOID:0000000012849398

Vehicle specification needs to be written with CONSULT because it is not written after replacing AV control unit.
Configuration has three functions as follows:

Function	Description
"Before Replace ECU"	• Reads the vehicle configuration of current AV control unit. • Saves the read vehicle configuration.
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

CAUTION:
- **When replacing AV control unit, you must perform “Select Saved Data List” or "After Replace ECU" with CONSULT.**
- **Complete the procedure of “Select Saved Data List” or "After Replace ECU" in order.**
- **If you set incorrect “Select Saved Data List” or "After Replace ECU", incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**
- **Never perform “Select Saved Data List” or "After Replace ECU" except for new AV control unit.**

CONFIGURATION (AV CONTROL UNIT) : Work Procedure

INFOID:0000000012849399

1.WRITING MODE SELECTION

CONSULT
Select “Reprogramming, Configuration” of AV control unit.

When writing saved data>>GO TO 2.
When writing manually>>GO TO 3.

2.PERFORM “SAVED DATA LIST”

CONSULT
Automatically “Operation Log Selection” window will display if “Before Replace ECU” was performed. Select applicable file from the “Save Data List” and press “Confirm”.

>> Work End.

3.PERFORM “AFTER REPLACE ECU” OR “MANUAL CONFIGURATION”

CONSULT
1. Select “After Replace ECU” or “Manual Configuration”.
2. Identify the correct model and configuration list. Refer to AV-78, "CONFIGURATION (AV CONTROL UNIT) : Configuration List".
3. Confirm and/or change setting value for each item.
   CAUTION:
   Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.
4. Select “Next”.
   CAUTION:
   Make sure to select “Next”, confirm each setting value and press “OK” even if the indicated configuration of brand new AV control unit is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model can not be memorized.
5. When "Completed", select "End".

>> GO TO 4.

4.OPERATION CHECK

Confirm that each function controlled by AV control unit operates normally.

>> Work End.

CONFIGURATION (AV CONTROL UNIT) : Configuration List

INFOID:0000000012849400

CAUTION:
Thoroughly read and understand the vehicle specification. Incorrect settings may result in abnormal control of ECU.

SETTING ITEM		NOTE
Items	Setting Value	
SOUND SYSTEM	BASE ⇔ BOSE	BASE: Without BOSE audio BOSE: With BOSE audio
CAMERA SYSTEM	NONE/AVM ⇔ REAR CAMERA	NONE/AVM: With no camera system or with around view monitor REAR CAMERA: With rear view camera

⇔: Items which confirm vehicle specifications

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

DTC Logic

INFOID:0000000012849401

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1000]	AV control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.	CAN communication system.

Diagnosis Procedure

INFOID:0000000012849402

1.PERFORM SELF DIAGNOSTIC RESULT

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

Is CAN COMM CIRCUIT displayed?

YES >> Refer to LAN-28, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-50, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:0000000012849403

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-133, "Removal and Installation".

U1200 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849404

CONSULT Display	DTC Detection Condition	Possible Cause
CONT UNIT [U1200]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-133, "Removal and Installation".

U1216 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849405

CONSULT Display	DTC Detection Condition	Possible Cause
CAN CONT [U1216]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-133, "Removal and Installation".

U1232 STEERING ANGLE SENSOR

DTC Logic

INFOID:0000000012849406

CONSULT Display	DTC Detection Condition	Possible Cause
ST ANGLE SEN CALIB [U1232]	Predictive course line center position adjustment of the steering angle sensor is incomplete.	Adjust the predictive course line center position of the steering angle sensor. Refer to AV-34, "CONSULT Function".

Diagnosis Procedure

INFOID:0000000012849407

1.ADJUST THE PREDICTIVE COURSE LINE CENTER POSITION OF THE STEERING ANGLE SENSOR

When U1232 is detected, adjust the predictive course line center position of the steering angle sensor.

>> Refer to AV-34, "CONSULT Function".

U1243 DISPLAY UNIT

DTC Logic

INFOID:0000000012849408

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT DISP CONN [U1243]	When any of the following is detected: • display unit power supply or ground circuit malfunction. • serial communication circuit malfunction between display unit and AV control unit.	• Display unit power supply and ground circuits. • Serial communication circuits between display unit and AV control unit.

Diagnosis Procedure

INFOID:0000000012849409

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check display unit power supply and ground circuits. Refer to AV-90, "DISPLAY UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector M45.
3. Check continuity between display unit connector M93 terminals 11, 22 and AV control unit connector M45 terminals 73, 61.

Display unit		AV control unit		Continuity
Connector	Terminals	Connector	Terminals	
M93	11	M45	73	Yes
	22		61	

4. Check continuity between display unit connector M93 terminals 11, 22 and ground.

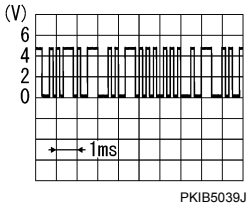
Display unit		Ground	Continuity
Connector	Terminals		
M93	11	—	No
	22		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK COMMUNICATION SIGNAL (CONT→DISP)

1. Connect display unit connector and AV control unit connector M45.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 11 and ground.

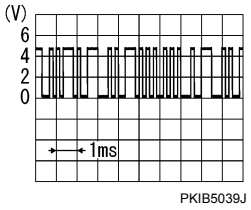
Display unit (+) Connector	Display unit (+) Terminal	Ground (–)	Condition	Reference value
M93	11	—	When adjusting display brightness.	 PKIB5039J

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

4. CHECK COMMUNICATION SIGNAL (DISP→CONT)

Check signal between display unit connector M93 terminal 22 and ground.

Display unit (+) Connector	Display unit (+) Terminal	Ground (–)	Condition	Reference value
M93	22	—	When adjusting display brightness.	 PKIB5039J

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace display unit. Refer to AV-138, "Removal and Installation".

U1255 SATELLITE RADIO TUNER

DTC Logic

INFOID:0000000012849410

CONSULT Display	DTC Detection Condition	Possible Cause
SAT CONN [U1255]	When any of the following is detected: • satellite radio tuner power supply or ground circuit malfunction. • communication circuit malfunction between AV control unit and satellite radio tuner. • request signal circuit malfunction between AV control unit and satellite radio tuner.	• Satellite radio tuner power supply and ground circuits. • Communication circuits between AV control unit and satellite radio tuner. • Request signal circuits between AV control unit and satellite radio tuner.

Diagnosis Procedure

INFOID:0000000012849411

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK SATELLITE RADIO TUNER POWER SUPPLY AND GROUND CIRCUIT

Check satellite radio tuner power supply and ground circuit. Refer to AV-92, "SATELLITE RADIO TUNER : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION CIRCUIT AND REQUEST SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M51 and satellite radio tuner connector B2.
3. Check continuity between AV control unit connector M51 terminals 100, 101, 102 and satellite radio tuner connector B2 terminals 28, 29, 30.

AV control unit		Satellite radio tuner		Continuity
Connector	Terminals	Connector	Terminals	
M51	100	B2	28	Yes
	101		29	
	102		30	

4. Check continuity between AV control unit connector M51 terminals 100, 101, 102 and ground.

AV control unit			Continuity
Connector	Terminals		
M51	100	Ground	No
	101		
	102		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector M51.
2. Turn ignition switch ON.
3. Check signal between AV control unit connector M51 terminals 100, 101 and ground.

AV control unit		Ground	Voltage (Approx.)
(+)		(–)	
Connector	Terminals		
M51	100	—	7.0 V
	101		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

4. CHECK SATELLITE RADIO TUNER VOLTAGE

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M51.
3. Connect satellite radio tuner connector B2.
4. Turn ignition switch ON.
5. Check signal between satellite radio tuner connector B2 terminal 30 and ground.

Satellite radio tuner		Ground	Voltage (Approx.)
(+)		(–)	
Connector	Terminals		
B2	30	—	7.0 V

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace satellite radio tuner. Refer to AV-147, "Removal and Installation".

U1300 AV COMM CIRCUIT

Description

INFOID:0000000012849412

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

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

CONSULT Display	DTC Detection Condition	Possible Cause
• AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240]	When any of the following is detected: • Multifunction switch power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and multifunction switch.	• Multifunction switch power supply and ground circuits. • AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT [U1300] • HAND FREE CONN [U1256]	When any of the following is detected: • Bluetooth® control unit power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and Bluetooth® control unit.	• Bluetooth® control unit power supply and ground circuits. • AV communication circuits between AV control unit and Bluetooth® control unit.
• AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • HAND FREE CONN [U1256]	AV communication circuit malfunction between AV control unit and multifunction switch.	AV communication circuits between AV control unit and multifunction switch.

U1310 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849413

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (AV) [U1310]	An initial diagnosis error is detected in AV communication circuit.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-133, "Removal and Installation".

POWER SUPPLY AND GROUND CIRCUIT
AV CONTROL UNIT
AV CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012849414

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
29	Ignition signal	29 (5A)
39	ACC power supply	65 (10A)
51	Battery power supply	15 (15A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connectors M42 and M44.
3. Check voltage between AV control unit connectors and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M42	29	—	Ignition switch: ON	Battery voltage
M44	39		Ignition switch: ACC	
	51		Ignition switch: OFF	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between AV control unit connector M44 terminal 52 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M44	52	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

DISPLAY UNIT
DISPLAY UNIT : Diagnosis Procedure

INFOID:0000000012849415

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK INVERTER VCC AND SIGNAL VCC (POWER SUPPLY) CIRCUIT 1

Check voltage between display unit harness connector M93 terminals 2, 3 and ground.

Display unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M93	2	—	Ignition switch: ACC	9.0 V
	3			

Is the inspection result normal?

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

2. CHECK INVERTER VCC AND SIGNAL VCC (POWER SUPPLY) CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M45 and display unit connector.
3. Check continuity between AV control unit connector M45 terminals 64, 76 and display unit connector M93 terminals 3, 2.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M45	64	M93	3	Yes
	76		2	

4. Check continuity between AV control unit connector M45 terminals 64, 76 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M45	64	—	No
	76		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3. CHECK INVERTER VCC AND SIGNAL VCC (POWER SUPPLY) CIRCUIT 2

1. Connect the AV control unit connector M45.
2. Check voltage between AV control unit connector M45 terminals 64, 76 and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
(+)		(–)		
Connector	Terminal			
M45	64	—	Ignition switch: ACC	9.0 V
	76			

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

4. CHECK INVERTER GROUND AND SIGNAL GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M45 and display unit connector.
3. Check continuity between AV control unit connector M45 terminals 63, 75 and display unit connector M93 terminals 14, 13.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M45	63	M93	14	Yes
	75		13	

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5.CHECK DISPLAY UNIT GROUND CIRCUIT

Check continuity between display unit connector M93 terminal 1 and ground.

Display unit		Ground	Continuity
Connector	Terminal		
M93	1	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

SATELLITE RADIO TUNER

SATELLITE RADIO TUNER : Diagnosis Procedure

INFOID:0000000012849416

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
32	Battery power supply	15 (15A)
36	ACC power supply	65 (10A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect satellite radio tuner connector B2.
3. Check voltage between satellite radio tuner connector B2 terminal 32, 36 and ground.

Satellite radio tuner		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
B2	32	—	Ignition switch: OFF	Battery voltage
	36		Ignition switch: ACC	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between satellite radio tuner connector B2 terminal 35 and ground.

Satellite radio tuner		Ground	Continuity
Connector	Terminal		
B2	35	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

BLUETOOTH® CONTROL UNIT

BLUETOOTH® CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012849417

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
1	Battery power supply	15 (15A)
2	ACC power supply	65 (10A)
3	Ignition signal	30 (10A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Bluetooth® control unit connector B3.
3. Check voltage between Bluetooth® control unit connector B3 and ground.

Bluetooth® control unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
B3	1	—	Ignition switch: OFF	Battery voltage
	2		Ignition switch: ACC	
	3		Ignition switch: ON	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between Bluetooth® control unit connector B3 and ground.

Bluetooth® control unit		Ground	Continuity
Connector	Terminal		
B3	4	—	Yes
	20		
	23		
	24		
	27		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

MULTIFUNCTION SWITCH

MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:0000000012849418

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
3	ACC power supply	65 (10A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector.
3. Check voltage between multifunction switch connector M98 terminal 3 and ground.

Multifunction switch		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M98	3	—	Ignition switch: ACC	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK CONTROL UNIT GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M42.
3. Check continuity between multifunction switch connector M98 terminal 9 and AV control unit connector M42 terminal 10.

Multifunction switch		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M98	9	M42	10	Yes

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness or connectors.

4.CHECK SWITCH GROUND CIRCUIT

Check continuity between multifunction switch connector M98 terminal 1 and ground.

Multifunction switch		Ground	Continuity
Connector	Terminal		
M98	1	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

FRONT DOOR SPEAKER

Diagnosis Procedure

INFOID:0000000012849419

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2
NO >> Repair the terminals or connectors.

2.CHECK FRONT DOOR SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M44 and suspect front door speaker connector.
2. Check continuity between AV control unit connector M44 and suspect front door speaker connector.

AV control unit		Front door speaker		Continuity
Connector	Terminal	Connector	Terminal	
M44	34	D12 (LH)	1	Yes
	35		2	
	43	D112 (RH)	1	
	44		2	

3. Check continuity between AV control unit connector M44 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M44	34	—	No
	35		
	43		
	44		

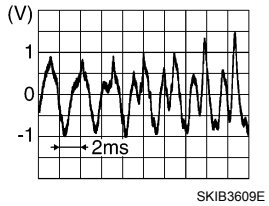
Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness or connectors.

3.CHECK FRONT DOOR SPEAKER SIGNAL

1. Connect AV control unit connector M44 and suspect front door speaker connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of AV control unit connector M44.

AV control unit connector M44		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

34	35	Audio signal output	 SKIB3609E
43	44		

Is the inspection result normal?

YES >> Replace front door speaker. Refer to AV-139, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

INSTRUMENT PANEL SPEAKER/TWEETER

Diagnosis Procedure

INFOID:0000000012849420

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2
NO >> Repair the terminals or connectors.

2.CHECK INSTRUMENT PANEL TWEETER SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M44 and suspect instrument panel tweeter connector.
2. Check continuity between AV control unit connector M44 and suspect instrument panel tweeter connector.

AV control unit		Instrument panel tweeter		Continuity
Connector	Terminal	Connector	Terminal	
M44	34	M62 (LH)	1	Yes
	35		2	
	43	M73 (RH)	1	
	44		2	

3. Check continuity between AV control unit connector M44 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M44	34	—	No
	35		
	43		
	44		

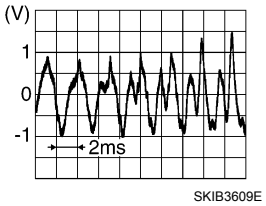
Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness or connectors.

3.CHECK INSTRUMENT PANEL TWEETER SIGNAL

1. Connect AV control unit connector M44 and suspect instrument panel tweeter connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of AV control unit connector M44.

AV control unit connector M44		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

34	35	Audio signal output	 SKIB3609E
43	44		

Is the inspection result normal?

YES >> Replace instrument panel tweeter. Refer to AV-140, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

REAR DOOR SPEAKER

Diagnosis Procedure

INFOID:0000000012849421

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2
NO >> Repair the terminals or connectors.

2.CHECK REAR DOOR SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M44 and suspect rear door speaker connector.
2. Check continuity between AV control unit connector M44 and suspect rear door speaker connector.

AV control unit		Rear door speaker		Continuity
Connector	Terminal	Connector	Terminal	
M44	36	D206 (LH)	1	Yes
	37		2	
	45	D306 (RH)	1	
	46		2	

3. Check continuity between AV control unit connector M44 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M44	36	—	No
	37		
	45		
	46		

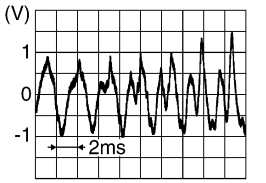
Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness or connectors.

3.CHECK REAR DOOR SPEAKER SIGNAL

1. Connect AV control unit connector M44 and suspect rear door speaker connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of AV control unit connector M44.

AV control unit connector M44		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

36	37	Audio signal output	 SKIB3609E
45	46		

Is the inspection result normal?

YES >> Replace rear door speaker. Refer to AV-141, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

FRONT AUXILIARY INPUT JACK AUDIO SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849422

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK AUX SOUND SIGNAL CIRCUIT CONTINUITY

1. Turn ignition OFF.
2. Disconnect AV control unit connector M42 and front auxiliary input jacks connector.
3. Check continuity between AV control unit connector M42 and front auxiliary input jacks connector M205.

AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M42	20	M205	1	Yes
	21		3	

4. Check continuity between AV control unit connector M42 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M42	20	—	No
	21		

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AUX SOUND SIGNAL GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M42 and front auxiliary input jacks connector M205.

AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M42	22	M205	2	Yes

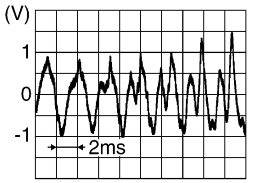
Is inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK AUX SOUND SIGNAL

1. Connect AV control unit connector M42 and front auxiliary input jacks connector.
2. Turn ignition switch to ACC.
3. Select AUX mode.
4. Check signal between terminals of AV control unit connector M42.

AV control unit connector M42		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

20	22	AUX mode selected	 SKIB3609E
21			

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-133, "Removal and Installation".
NO >> Replace front auxiliary input jacks. Refer to AV-144, "Removal and Installation".

SATELLITE AUDIO SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849423

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK SATELLITE SOUND SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M51 and satellite radio tuner connector B2.
3. Check continuity between AV control unit connector M51 and satellite radio tuner connector B2.

AV control unit		Satellite radio tuner		Continuity
Connector	Terminals	Connector	Terminals	
M51	94	B2	22	Yes
	96		24	

4. Check continuity between AV control unit connector M51 and ground.

AV control unit		Ground	Continuity
Connector	Terminals		
M51	94		No
	96		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK SATELLITE SOUND SIGNAL GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M51 and satellite radio tuner connector B2.

AV control unit		Satellite radio tuner		Continuity
Connector	Terminals	Connector	Terminals	
M51	93	B2	21	Yes
	95		23	

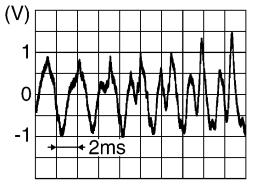
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK SATELLITE SOUND SIGNAL

1. Connect AV control unit connector M51 and satellite radio tuner connector B2.
2. Turn ignition switch to ACC.
3. Select satellite radio mode.
4. Check signal between terminals of AV control unit connector M51.

AV control unit connector M51		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

94	93	Satellite radio mode selected	 SKIB3609E
96	95		

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-133, "Removal and Installation".
NO >> Replace satellite radio tuner. Refer to AV-147, "Removal and Installation".

BLUETOOTH® VOICE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849424

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK BLUETOOTH® VOICE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M42 and Bluetooth® control unit connector B3.
3. Check continuity between AV control unit connector M42 terminal 5 and Bluetooth® control unit connector B3 terminal 9.

AV control unit		Bluetooth® control unit		Continuity
Connector	Terminal	Connector	Terminal	
M42	5	B3	9	Yes

4. Check continuity between AV control unit connector M42 terminal 5 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M42	5	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK BLUETOOTH® VOICE SIGNAL GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M42 terminal 4 and Bluetooth® control unit connector B3 terminal 10.

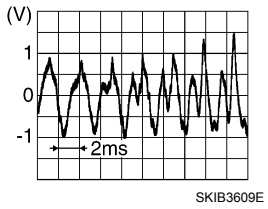
AV control unit		Bluetooth® control unit		Continuity
Connector	Terminal	Connector	Terminal	
M42	4	B3	10	Yes

Is inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK BLUETOOTH® VOICE SIGNAL

1. Connect AV control unit connector M42 and Bluetooth® control unit connector B3.
2. Turn ignition switch to ACC.
3. Press switch.
4. Check signal between terminals of AV control unit connector M42.

AV control unit connector M42		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
5	4	During voice guide output with switch pressed.	

SKIB3609E

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-133, "Removal and Installation".
NO >> Replace Bluetooth® control unit. Refer to AV-145, "Removal and Installation".

RGB (R: RED) SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849425

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

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

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M45 and display unit connector.
3. Check continuity between AV control unit connector M45 terminal 57 and display unit connector M93 terminal 17.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M45	57	M93	17	Yes

4. Check continuity between AV control unit connector M45 terminal 57 and ground.

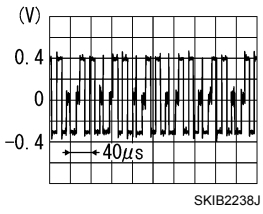
AV control unit		Ground	Continuity
Connector	Terminal		
M45	57		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RGB (R: RED) SIGNAL

1. Connect AV control unit connector M45 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 17 and ground.

Display unit (+)		Ground (–)	Condition	Reference value
Connector	Terminal			
M93	17	—	“Color Spectrum Bar” on DISPLAY DIAGNOSIS screen.	

SKIB2238J

Is inspection result normal?

YES >> Replace display unit. Refer to AV-138, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

RGB (G: GREEN) SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849426

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

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

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M45 and display unit connector.
3. Check continuity between AV control unit connector M45 terminal 56 and display unit connector M93 terminal 6.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M45	56	M93	6	Yes

4. Check continuity between AV control unit connector M45 terminal 56 and ground.

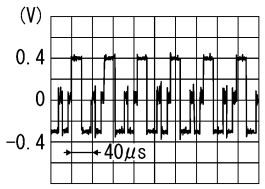
AV control unit		Ground	Continuity
Connector	Terminal		
M45	56		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RGB (G: GREEN) SIGNAL

1. Connect AV control unit connector M45 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 6 and ground.

Display unit		Ground	Condition	Reference value
(+)		(−)		
Connector	Terminal			
M93	6	—	“Color Spectrum Bar” on DISPLAY DIAGNOSIS screen.	

SKIB2236J

Is inspection result normal?

YES >> Replace display unit. Refer to AV-138, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

RGB (B: BLUE) SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849427

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

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

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M45 and display unit connector.
3. Check continuity between AV control unit connector M45 terminal 55 and display unit connector M93 terminal 18.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M45	55	M93	18	Yes

4. Check continuity between AV control unit connector M45 terminal 55 and ground.

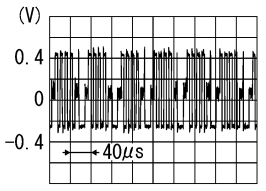
AV control unit		Ground	Continuity
Connector	Terminal		
M45	55		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RGB (B: BLUE) SIGNAL

1. Connect AV control unit connector M45 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 18 and ground.

Display unit (+)		Ground (−)	Condition	Reference value
Connector	Terminal			
M93	18	—	“Color Spectrum Bar” on DISPLAY DIAGNOSIS screen.	

SKIB2237J

Is inspection result normal?

YES >> Replace display unit. Refer to AV-138, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

RGB SYNCHRONIZING SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849428

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK RGB SYNCHRONIZING SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M45 and display unit connector.
3. Check continuity between AV control unit connector M45 terminal 58 and display unit connector M93 terminal 19.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M45	58	M93	19	Yes

4. Check continuity between AV control unit connector M45 terminal 58 and ground.

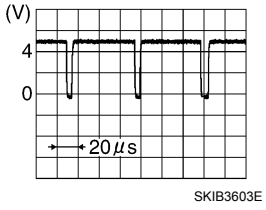
AV control unit		Ground	Continuity
Connector	Terminal		
M45	58		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RGB SYNCHRONIZING SIGNAL

1. Connect AV control unit connector M45 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 19 and ground.

Display unit		Ground	Reference value
(+)		(−)	
Connector	Terminal		
M93	19	—	

SKIB3603E

Is inspection result normal?

YES >> Replace display unit. Refer to AV-138, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

RGB AREA (YS) SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849429

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK RGB AREA (YS) SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M45 and display unit connector.
3. Check continuity between AV control unit connector M45 terminal 60 and display unit connector M93 terminal 9.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M45	60	M93	9	Yes

4. Check continuity between AV control unit connector M45 terminal 60 and ground.

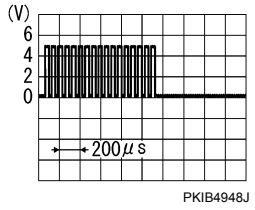
AV control unit		Ground	Continuity
Connector	Terminal		
M45	60		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RGB AREA (YS) SIGNAL

1. Connect AV control unit connector M45 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 9 and ground.

Display unit (+)		Ground (–)	Condition	Reference value
Connector	Terminal			
M93	9	—	RGB image displayed.	5.0 V
			AUX image displayed.	

PKIB4948J

Is inspection result normal?

YES >> Replace display unit. Refer to AV-138, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849430

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M45 and display unit connector.
3. Check continuity between AV control unit connector M45 terminal 62 and display unit connector M93 terminal 8.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M45	62	M93	8	Yes

4. Check continuity between AV control unit connector M45 terminal 62 and ground.

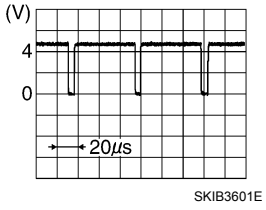
AV control unit		Ground	Continuity
Connector	Terminal		
M45	62		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

1. Connect AV control unit connector M45 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 8 and ground.

Display unit		Ground	Reference value
(+)		(−)	
Connector	Terminal		
M93	8	—	

SKIB3601E

Is inspection result normal?

YES >> Replace AV control unit. Refer to AV-133, "Removal and Installation".
NO >> Replace display unit. Refer to AV-138, "Removal and Installation".

VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849431

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M45 and display unit connector.
3. Check continuity between AV control unit connector M45 terminal 74 and display unit connector M93 terminal 20.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M45	74	M93	20	Yes

4. Check continuity between AV control unit connector M45 terminal 74 and ground.

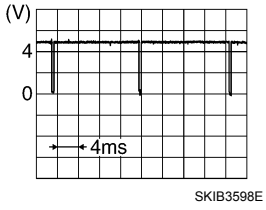
AV control unit		Ground	Continuity
Connector	Terminal		
M45	74		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

1. Connect AV control unit connector M45 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 20 and ground.

Display unit		Ground	Reference value
(+)		(−)	
Connector	Terminal		
M93	20	—	

SKIB3598E

Is inspection result normal?

YES >> Replace AV control unit. Refer to AV-133, "Removal and Installation".
NO >> Replace display unit. Refer to AV-138, "Removal and Installation".

COMPOSITE IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849432

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK COMPOSITE IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M45 and display unit connector.
3. Check continuity between AV control unit connector M45 terminal 53 and display unit connector M93 terminal 15.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M45	53	M93	15	Yes

4. Check continuity between AV control unit connector M45 terminal 53 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M45	53		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMPOSITE IMAGE SIGNAL GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M45 terminal 54 and display unit connector M93 terminal 4.

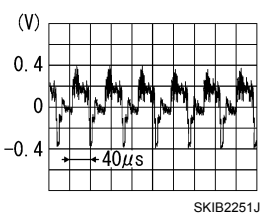
AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M45	54	M93	4	Yes

Is inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK COMPOSITE IMAGE SIGNAL

1. Connect AV control unit connector M45 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 15 and ground.

AV control unit (+)		Ground (−)	Condition	Reference value
Connector	Terminal			
M45	53	—	Camera image displayed.	

SKIB2251J

Is inspection result normal?

YES >> Replace display unit. Refer to AV-138, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

AUX IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849433

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK AUX IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M46 and front auxiliary input jacks connector.
3. Check continuity between AV control unit connector M46 terminal 83 and front auxiliary input jacks connector M205 terminal 7.

AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M46	83	M205	7	Yes

4. Check continuity between AV control unit connector M46 terminal 83 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M46	83		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AUX IMAGE SIGNAL GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M46 and front auxiliary input jacks connector.
3. Check continuity between AV control unit connector M46 terminal 91 and front auxiliary input jacks connector M205 terminal 8.

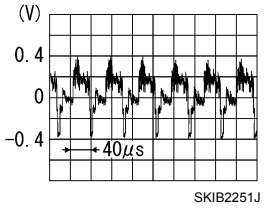
AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M46	91	M205	8	Yes

Is inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK AUX IMAGE SIGNAL

1. Connect AV control unit connector M46 and front auxiliary input jacks connector.
2. Turn ignition switch ON.
3. Check signal between front auxiliary input jacks connector M205 terminal 7 and ground.

Front auxiliary input jacks		Ground	Condition	Reference value
(+)		(–)		
Connector	Terminal			
M205	7	—	AUX image displayed.	

SKIB2251J

Is inspection result normal?

YES >> Replace AV control unit. Refer to AV-133, "Removal and Installation".
NO >> Replace front auxiliary input jacks. Refer to AV-144, "Removal and Installation".

CAMERA IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849434

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK REVERSE INPUT SIGNAL

1. Turn ignition switch ON.
2. Shift the selector lever to R (reverse).
3. Check voltage between AV control unit connector M42 and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
(+)		(−)		
Connector	Terminal			
M42	30	—	Selector lever in R (reverse)	Battery Voltage

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK CAMERA POWER SUPPLY CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M46 and rear view camera connector.
3. Check continuity between AV control unit connector M46 terminal 87 and rear view camera connector D504 terminal 1.

AV control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
M46	87	D504	1	Yes

4. Check continuity between AV control unit connector M46 terminal 87 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M46	87		No

Is inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK CAMERA POWER SUPPLY VOLTAGE

1. Connect AV control unit connector M46 and rear view camera connector.
2. Turn ignition switch ON.
3. Shift the selector lever to “R”.
4. Check voltage between AV control unit connector M46 terminal 87 and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
(+)		(−)		
Connector	Terminal			
M46	87	—	Selector lever is in “R”.	6.0 V

Is inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit. Refer to AV-133, "Removal and Installation".

4. CHECK CAMERA IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M46 and rear view camera connector.
3. Check continuity between AV control unit connector M46 terminal 82 and rear view camera connector D504 terminal 3.

AV control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
M46	82	D504	3	Yes

4. Check continuity between AV control unit connector M46 terminal 82 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M46	82		No

Is inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK CAMERA GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M46 terminal 88 and rear view camera connector D504 terminal 2.

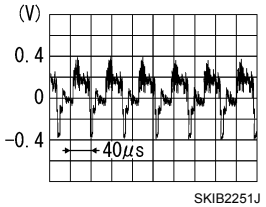
AV control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
M46	88	D504	2	Yes

Is inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace harness or connectors.

6. CHECK CAMERA IMAGE SIGNAL

1. Connect AV control unit connector M46 and rear view camera connector.
2. Turn ignition switch ON.
3. Shift the selector lever to “R”.
4. Check signal between AV control unit connector M46 terminal 82 and ground.

AV control unit (+)		Ground (–)	Condition	Reference value
Connector	Terminal			
M46	82	—	Camera image displayed.	

SKIB2251J

Is inspection result normal?

YES >> Replace AV control unit. Refer to AV-133, "Removal and Installation".
NO >> Replace rear view camera. Refer to AV-142, "Removal and Installation".

DISK EJECT SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849435

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK DISK EJECT SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M42 and multifunction switch connector.
3. Check continuity between AV control unit connector M42 terminal 28 and multifunction switch connector M98 terminal 14.

AV control unit		Multifunction switch		Continuity
Connector	Terminal	Connector	Terminal	
M42	28	M98	14	Yes

4. Check continuity between AV control unit connector M42 terminal 28 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M42	28		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector M42 and multifunction switch connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector M42 terminal 28 and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
(+)		(–)		
Connector	Terminal			
M42	28	—	Pressing eject switch	0 V
			Except above	5.0 V

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-133, "Removal and Installation".
NO >> Replace multifunction switch. Refer to AV-135, "Removal and Installation".

MICROPHONE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849436

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK MICROPHONE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect Bluetooth® control unit connector B3 and microphone connector.
3. Check continuity between Bluetooth® control unit connector B3 terminals 7, 8, 29 and microphone connector R109 terminals 4, 3, 1.

Bluetooth® control unit		Microphone		Continuity
Connector	Terminal	Connector	Terminal	
B3	7	R109	4	Yes
	8		3	
	29		1	

4. Check continuity between Bluetooth® control unit connector B3 terminals 7, 8, 29 and ground.

Bluetooth® control unit		Ground	Continuity
Connector	Terminal		
B3	7	—	No
	8		
	29		

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK MICROPHONE VCC VOLTAGE

1. Connect Bluetooth® control unit connector B3.
2. Turn ignition switch ON.
3. Check voltage between terminals of Bluetooth® control unit connector B3.

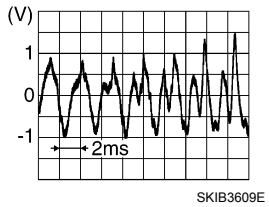
Bluetooth® control unit connector B3		Voltage (Approx.)
(+)	(−)	
Terminal	Terminal	
29	8	5.0 V

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace Bluetooth® control unit. Refer to AV-145, "Removal and Installation".

3.CHECK MICROPHONE SIGNAL

1. Connect microphone connector.
2. Check signal between terminals of Bluetooth® control unit connector B3.

Bluetooth® control unit connector B3		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
7	8	Speak into microphone.	 SKIB3609E

Is the inspection result normal?

YES >> Replace Bluetooth® control unit. Refer to AV-145, "Removal and Installation".
NO >> Replace microphone. Refer to AV-146, "Removal and Installation".

BLUETOOTH® CONTROL SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849437

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK CONTROL SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect Bluetooth® control unit connector B3.
3. Check continuity between Bluetooth® control unit connector B3 terminals 4, 20, 23, 24, 27 and ground.

Bluetooth® control unit		Ground	Continuity
Connector	Terminals		
B3	4	—	Yes
	20		
	23		
	24		
	27		

Is the inspection result normal?

YES >> Replace Bluetooth® control unit. Refer to AV-145, "Removal and Installation".
NO >> Repair or replace harness or connectors.

STEERING SWITCH

Diagnosis Procedure

INFOID:0000000012849438

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK STEERING SWITCH RESISTANCE

1. Turn ignition switch OFF.
2. Disconnect combination switch connector M149.
3. Check resistance between combination switch connector terminals.

Combination switch connector M149		Condition	Resistance Ω (Approx.)
Terminal	Terminal		
14	17	Depress SOURCE switch.	1
		Depress △ switch.	121
		Depress ▽ switch.	321
		Depress switch.	723
		Depress ENTER switch.	2023
15		Depress − switch.	1
		Depress + switch.	121
		Depress switch.	321
		Depress switch.	723
		Depress DISP switch.	2023

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace steering switch. Refer to AV-137, "Removal and Installation".

2.CHECK HARNESS BETWEEN COMBINATION SWITCH AND COMBINATION METER

1. Disconnect combination meter connector M24 and combination switch connector M30.
2. Check continuity between combination meter connector M24 and combination switch connector M30.

Combination meter		Combination switch		Continuity
Connector	Terminal	Connector	Terminal	
M24	3	M30	24	Yes
	24		33	
	4		31	

3. Check continuity between combination meter connector M24 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M24	3	—	No
	24		
	4		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3. CHECK COMBINATION SWITCH

Check continuity between combination switch connectors M30 and M149.

Combination switch				Continuity
Connector	Terminal	Connector	Terminal	
M30	24	M149	14	Yes
	31		15	
	33		17	

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace spiral cable. Refer to SR-15, "Removal and Installation".

4. CHECK HARNESS BETWEEN COMBINATION METER AND AV CONTROL UNIT

1. Disconnect AV control unit connector M44.
2. Check continuity between combination meter connector M24 and AV control unit connector M44.

Combination meter		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M24	14	M44	38	Yes
	15		48	
	16		47	

3. Check continuity between combination meter connector M24 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M24	14	—	No
	15		
	16		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK AV CONTROL UNIT VOLTAGE

1. Connect combination meter connector M24 and AV control unit connector M44.
2. Turn ignition switch ON.
3. Check voltage between terminals of AV control unit connector M44.

AV control unit connector M44		Voltage (Approx.)
(+)	(–)	
Terminal	Terminal	
38	47	5.0 V
48		

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-133, "Removal and Installation".
NO >> Replace combination meter. Refer to MWI-94, "Removal and Installation".

USB CONNECTOR

Diagnosis Procedure

INFOID:0000000012849439

Regarding Wiring Diagram information, refer to AV-52, "Wiring Diagram".

1.CHECK USB INTERFACE HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M55 and USB interface connector M209.
3. Check continuity between AV control unit connector M55 and USB interface connector M209.

AV control unit		USB interface		Continuity
Connector	Terminal	Connector	Terminal	
M55	138	M209	1	Yes
	137		2	
	140		3	
	139		4	
	141		5	

4. Check continuity between AV control unit connector M55 and ground.

AV control unit		—	Continuity
Connector	Terminal		
M55	137	Ground	No
	139		

Is the inspection result normal?

YES >> Replace the USB interface. Refer to AV-143, "Removal and Installation".
NO >> Repair or replace harness or connectors.

SYMPTOM DIAGNOSIS

MULTI AV SYSTEM

Symptom Table

INFOID:0000000012849440

RELATED TO AUDIO

Symptoms	Check items	Probable malfunction location
The disk cannot be removed.	AV control unit	Malfunction in AV control unit. Refer to AV-27, "On Board Diagnosis Function".
No sound comes out or the level of the sound is low.	No sound from all speakers.	• Speaker circuit shorted to ground. Refer to AV-52, "Wiring Diagram". • AV control unit power supply and ground circuits malfunction. Refer to AV-90, "AV CONTROL UNIT : Diagnosis Procedure".
	Only a certain speaker (front door speaker LH, front door speaker RH, instrument panel tweeter LH, instrument panel tweeter RH, rear speaker LH, rear speaker RH) does not output sound.	• Poor connector connection of speaker. • Sound signal circuit malfunction between AV control unit and speaker. Refer to: - AV-95, "Diagnosis Procedure" (front door speaker). - AV-97, "Diagnosis Procedure" (instrument panel tweeter). - AV-99, "Diagnosis Procedure" (rear door speaker). • Malfunction in speaker. Refer to: - AV-139, "Removal and Installation" (front door speaker). - AV-140, "Removal and Installation" (instrument panel tweeter). - AV-141, "Removal and Installation" (rear door speaker). • Malfunction in AV control unit. Refer to AV-27, "On Board Diagnosis Function".

Symptoms	Check items	Probable malfunction location
Noise is mixed with audio.	Noise comes out from all speakers.	Malfunction in AV control unit. Refer to AV-27, "On Board Diagnosis Function".
	Noise comes out only from a certain speaker (front door speaker LH, front door speaker RH, instrument panel tweeter LH, instrument panel tweeter RH, rear speaker LH, rear speaker RH).	• Poor connector connection of speaker. • Sound signal circuit malfunction between AV control unit and speaker. Refer to: - AV-95, "Diagnosis Procedure" (front door speaker). - AV-97, "Diagnosis Procedure" (instrument panel tweeter). - AV-99, "Diagnosis Procedure" (rear door speaker). • Malfunction in speaker. • Poor Installation of speaker (e.g. backlash and looseness). Refer to: - AV-139, "Removal and Installation" (front door speaker). - AV-140, "Removal and Installation" (instrument panel tweeter). - AV-141, "Removal and Installation" (rear door speaker). • Malfunction in AV control unit. Refer to AV-27, "On Board Diagnosis Function".
	Noise is mixed with radio only (when the vehicle hits a bump or while driving over bad roads)	Poor connector connection of antenna or antenna feeder. Refer to AV-148, "Location of Antennas".
No radio reception or poor reception.	• Other audio sounds are normal. • Any radio station cannot be received or poor reception is caused even after moving to a service area with good reception (e.g. a place with clear view and no obstacles generating external noises).	• Antenna amp. ON signal circuit malfunction. Refer to AV-37, "Reference Value". • Poor connector connection of antenna or antenna feeder. Refer to AV-148, "Location of Antennas".
No satellite radio reception.	There is malfunction in the CONSULT self diagnosis result. Refer to AV-34, "CONSULT Function".	• Malfunction in antenna, antenna feeder or AV control unit. Perform DTC diagnosis. Refer to AV-34, "CONSULT Function". • Poor continuity in antenna feeder. • Poor connector connection of antenna or antenna feeder. Refer to AV-148, "Location of Antennas".
	There is no malfunction in the CONSULT self diagnosis result. Refer to AV-34, "CONSULT Function".	• Poor continuity in antenna feeder. • Poor connector connection of antenna or antenna feeder. • Loose satellite radio antenna mounting nut. Refer to AV-148, "Location of Antennas".
Buzz/rattle sound from speaker	The majority of buzz/rattle sounds are not indicative of an issue with the speaker, usually something nearby the speaker is causing the buzz/rattle.	Refer to "SQUEAK AND RATTLE TROUBLE DIAGNOSIS" in the appropriate interior trim section.

RELATED TO HANDS-FREE PHONE

- Before performing diagnosis, confirm that the cellular phone being used by the customer is compatible with the vehicle.
- It is possible that a malfunction is occurring due to a version change of the phone even though the phone is a compatible type. This can be confirmed by changing the cellular phone to another compatible type, and check that it operates normally. It is important to determine whether the cause of the malfunction is the vehicle or the cellular phone.

Check Compatibility

1. Make sure the customer's Bluetooth® related concern is understood.
2. Verify the customer's concern.
   NOTE:
   The customer's phone may be required, depending upon their concern.
3. Write down the customer's phone brand, model and service provider.
   NOTE:
   It is necessary to know the service provider. On occasion, a given phone may be on the approved list with one provider, but may not be on the approved list with other providers.
4. Go to "www.nissanusa.com/bluetooth/".

a. Using the website's search engine, find out if the customer's phone is on the approved list.

b. If the customer's phone is NOT on the approved list:
   Stop diagnosis here. The customer needs to obtain a Bluetooth® phone that is on the approved list before any further action.

c. If the feature related to the customer's concern shows as "N" (not compatible):
   Stop diagnosis here. If the customer still wants the feature to function, they will need to get an approved phone showing the feature as "Y" (compatible) in the "Basic Features".

d. If the feature related to the customer's concern shows as "Y" (compatible):
   Perform diagnosis as per the following table.

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.	Malfunction in AV control unit. Replace AV control unit. Refer to AV-133, "Removal and Installation".
Hands-free phone cannot be established.	• 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.	
The other party's voice cannot be heard by hands-free phone.	Check the "microphone speaker" in Inspection & Adjustment Mode if sound is heard.	
Originating sound is not heard by the other party with hands-free phone communication.	Sound operation function is normal.	
	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to AV-121, "Diagnosis Procedure".
The system cannot be operated.	Steering switch's [VOL+], [VOL−], and [↩] switch works, but [📞] does not work.	Steering switch malfunction. Replace steering switch. Refer to AV-137, "Removal and Installation".
	Steering switch's [📞], [VOL+], [VOL−], and [↩] switches do not work.	Steering switch signal circuit malfunction. Refer to AV-124, "Diagnosis Procedure".
	All steering switches do not work.	Steering switch ground circuit malfunction. Refer to AV-124, "Diagnosis Procedure".

RELATED TO REAR VIEW CAMERA

Symptoms	Check items	Probable malfunction location
Rear view camera is inoperative.	Reverse signal circuit malfunction.	Reverse signal circuit malfunction between BCM and AV control unit. Refer to AV-118, "Diagnosis Procedure".
	Camera image signal circuit malfunction.	Camera image signal circuit malfunction between rear view camera and AV control unit. Refer to AV-118, "Diagnosis Procedure".
	Rear view camera malfunction.	Replace rear view camera. Refer to AV-142, "Removal and Installation".

NORMAL OPERATING CONDITION

Description

INFOID:0000000012849441

RELATED TO NOISE

The majority of the audio concerns are the result of outside causes (bad CD, electromagnetic interference, etc.).
The following noise results from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources. It is not a malfunction.

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from the waves sent directly from the broadcast station arriving at the antenna at a different time from the waves which reflect off mountains or buildings.

The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check if noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment, and determine the cause.

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

Type of Noise and Possible Cause

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

RELATED TO HANDS-FREE PHONE

Symptom	Cause and Counter measure
Does not recognize cellular phone connection (No connection is displayed on the display at the guide).	Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module. Refer to “RELATED TO HANDS-FREE PHONE (Check Compatibility)” in AV-127, "Symptom Table".
Cannot use hands-free phone.	Customer will not be able to use a hands-free phone under the following conditions: • The vehicle is outside of the telephone service area. • The vehicle is in an area where it is difficult to receive radio waves; such as in a tunnel, in an underground parking garage, near a tall building or in a mountainous area. • The cellular phone is locked to prevent it from being dialed. **NOTE:** While a cellular phone is connected through the Bluetooth® wireless connection, the battery power of the cellular phone may discharge quicker than usual. The Bluetooth® Hands-Free Phone System cannot charge cellular phones.

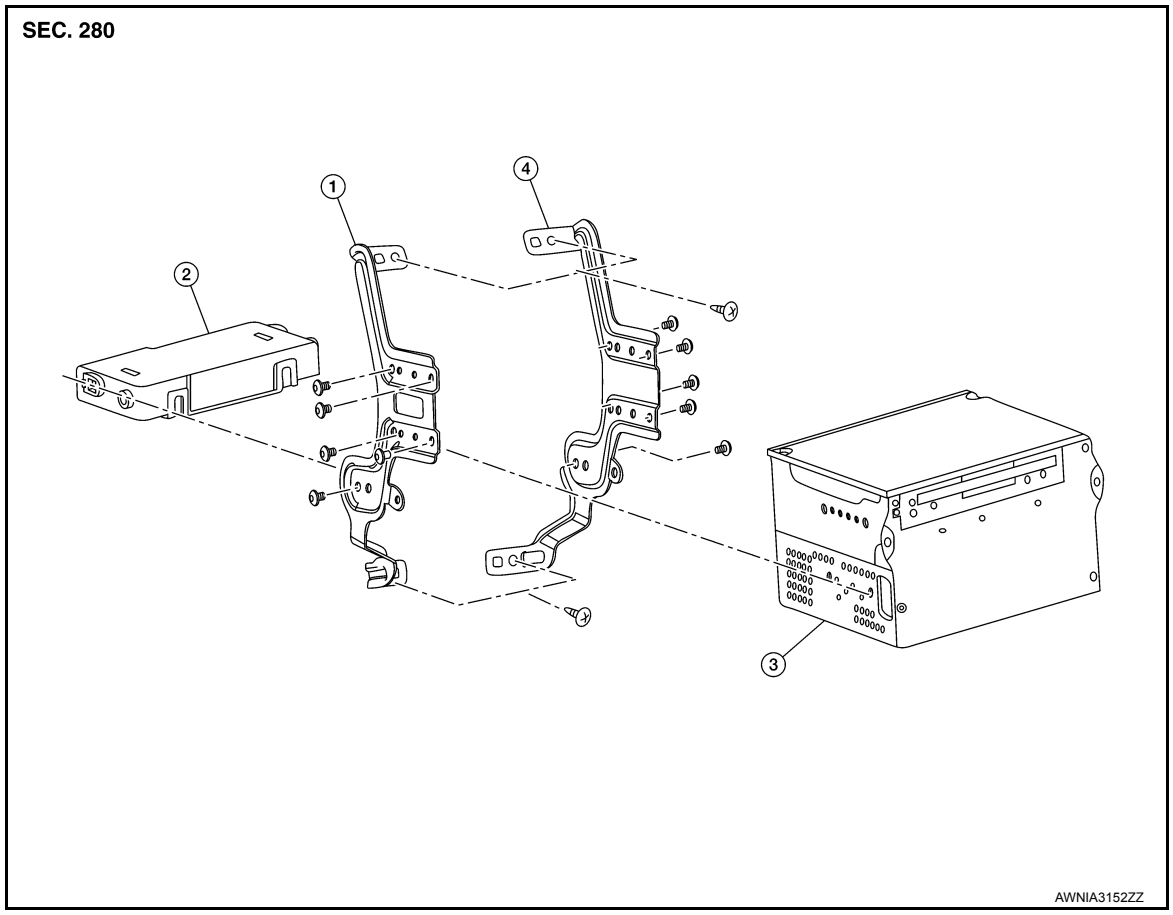
Symptom	Cause and Counter measure
The other party’s voice cannot be heard by hands-free phone.	When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person’s voice during a call.
Poor sound quality.	Do not place the cellular phone in an area surrounded by metal or far away from the in-vehicle phone module to prevent tone quality degradation and wireless connection disruption.

REMOVAL AND INSTALLATION

AV CONTROL UNIT

Exploded View

INFOID:0000000012849442



1. AV control unit bracket (LH)
2. A/C auto amp.
3. AV control unit
4. AV control unit bracket (RH)

Removal and Installation

INFOID:0000000012849443

REMOVAL

CAUTION:

- **Remove battery terminal and AV control unit after a lapse of 30 seconds or more after turning the ignition switch OFF.**
- **Before replacing AV control unit, perform "READ CONFIGURATION" to save current vehicle specification. Refer to AV-77, "CONFIGURATION (AV CONTROL UNIT) : Description".**

NOTE:

After the ignition switch is turned OFF, the AV control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

1. Disconnect the negative battery terminal. Refer to PG-147, "Removal and Installation".
2. Remove cluster lid C upper. Refer to IP-23, "CLUSTER LID C UPPER : Removal and Installation".
3. Remove the screws, then pull out the AV control unit.
4. Disconnect the harness connectors from the AV control unit and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **When replacing AV control unit, perform "WRITE CONFIGURATION". Refer to AV-77, "CONFIGURATION (AV CONTROL UNIT) : Description".**

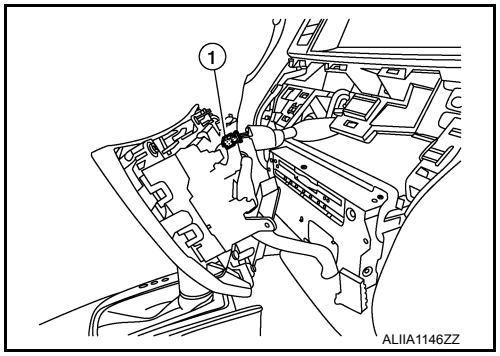
MULTIFUNCTION SWITCH

Removal and Installation

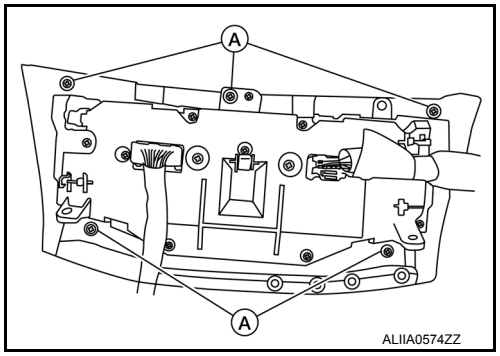
INFOID:0000000013522422

REMOVAL

1. Remove preset switch. Refer to AV-136, "Removal and Installation".
2. Remove screws securing multifunction switch.
3. Release pawls and detach multifunction switch using suitable tool.
4. Disconnect harness connector (1) from multifunction switch.



5. Remove multifunction switch from instrument panel assembly.
6. Remove screws (A) securing multifunction switch.



INSTALLATION

Installation is in the reverse order of removal.

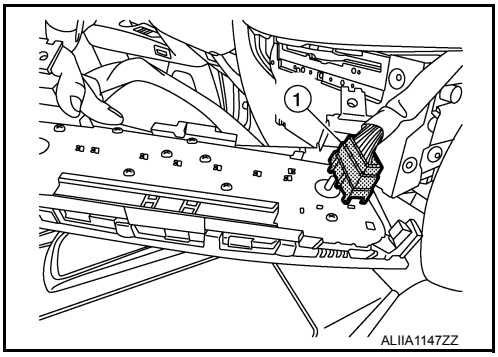
PRESET SWITCH

Removal and Installation

INFOID:0000000013522423

REMOVAL

1. Remove cluster lid C lower. Refer to IP-22, "CLUSTER LID C LOWER : Removal and Installation".
2. Remove cluster lid C. Refer to IP-22, "CLUSTER LID C : Removal and Installation".
3. Remove preset switch lower screws.
4. Release pawls and detach preset switch from instrument panel assembly using suitable tool.
5. Disconnect harness connector (1) from preset switch.



6. Remove preset switch from instrument panel assembly.

INSTALLATION

Installation is in the reverse order of removal.

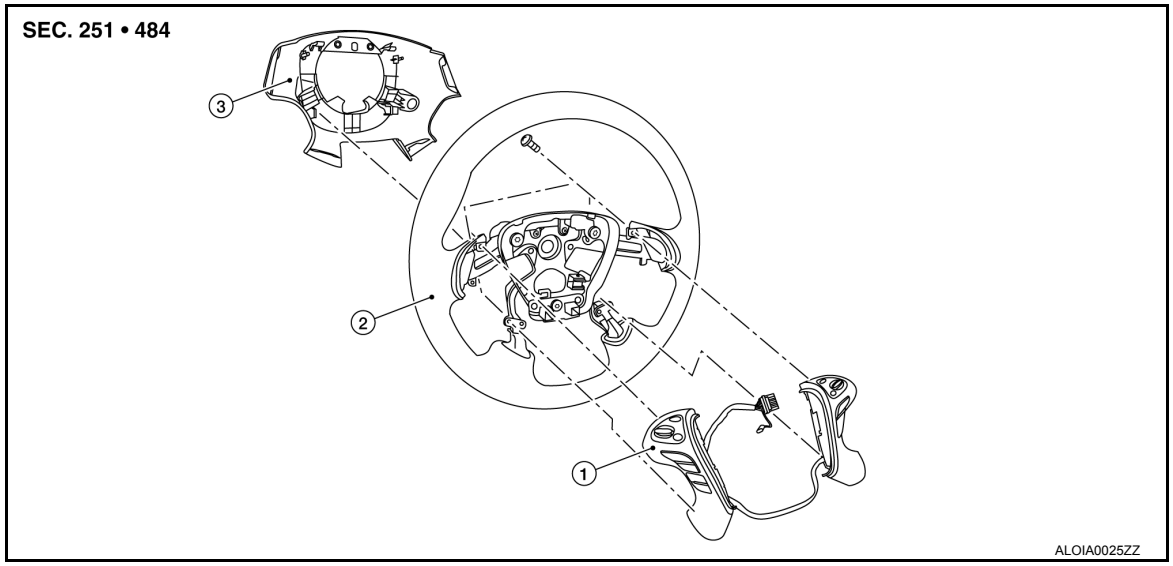
CAUTION:

When replacing preset switch, perform "Write Configuration". Refer to AV-76, "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description" and AV-77, "CONFIGURATION (AV CONTROL UNIT) : Description".

STEERING SWITCH

Exploded View

INFOID:0000000012849445



1. Steering switch
2. Steering wheel
3. Steering wheel rear finisher

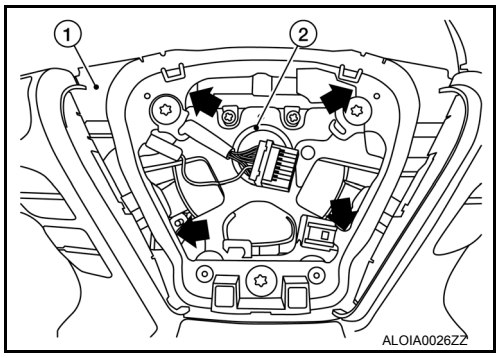
Removal and Installation

INFOID:0000000012849446

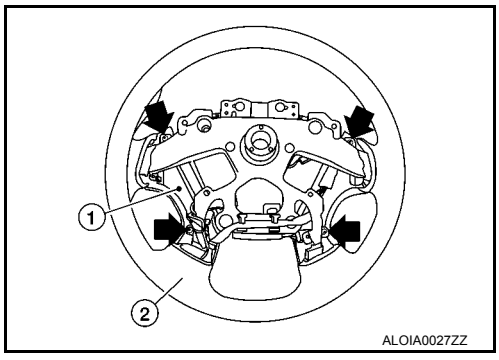
REMOVAL

NOTE:
The steering switch is serviced as an assembly.

1. Remove steering wheel. Refer to ST-50, "Removal and Installation".
2. Release pawls and remove steering wheel rear finisher (1) from steering wheel (2).



3. Remove steering switch screws.
4. Remove steering switch (1) from steering wheel (2).



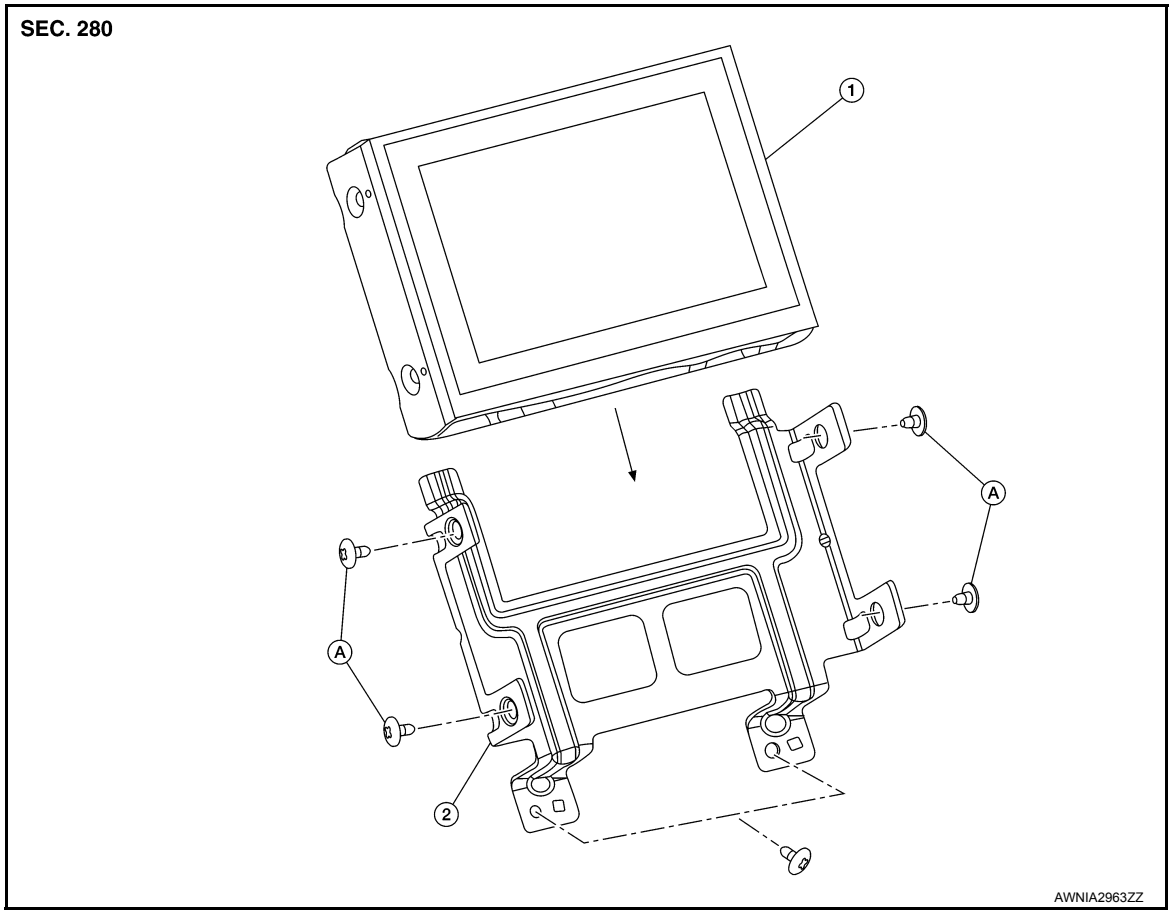
INSTALLATION

Installation is in the reverse order of removal.

DISPLAY UNIT

Exploded View

INFOID:0000000013523311



1. Display unit
2. Display unit bracket
A. Display unit screws

Removal and Installation

INFOID:0000000013523312

REMOVAL

1. Remove cluster lid D. Refer to IP-24, "Removal and Installation".
2. Remove the display unit screws, and then pull out the display unit and bracket.
3. Disconnect harness connector from the display unit, then remove the display unit and bracket.
4. Remove the display unit brackets screws, then remove the display unit from the display unit bracket (if necessary).

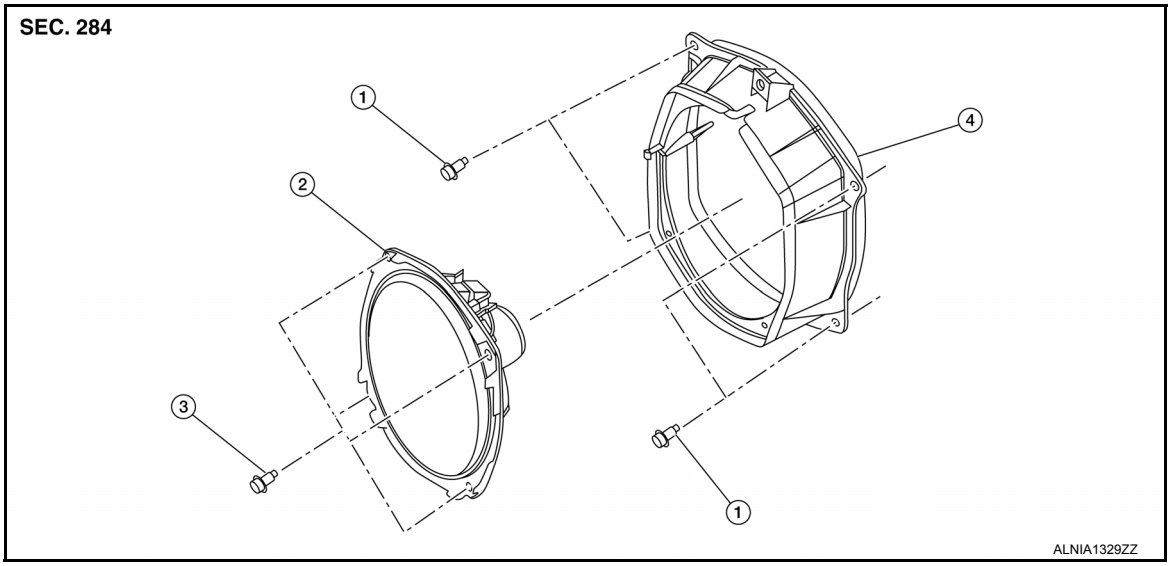
INSTALLATION

Installation is in the reverse order of removal.

FRONT DOOR SPEAKER

Exploded View

INFOID:0000000012849449



1. Speaker bracket bolt
2. Front door speaker
3. Speaker bolt
4. Speaker bracket

Removal and Installation

INFOID:0000000012849450

REMOVAL

1. Remove front door finisher. Refer to INT-15, "Removal and Installation".
2. Remove front door speaker bolts.
3. Disconnect harness connector from front door speaker, then remove front door speaker from speaker bracket.
4. Remove speaker bracket bolts (if necessary).
5. Remove speaker bracket from front door (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

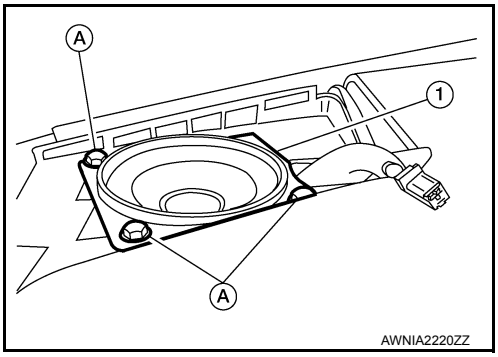
INSTRUMENT PANEL SPEAKER/TWEETER

Removal and Installation

INFOID:0000000012849451

REMOVAL

1. Remove instrument panel tweeter grille. Refer to IP-14, "Exploded View".
2. Remove the screws (A), then pull out the instrument panel tweeter (1).
3. Disconnect the harness connector from the instrument panel tweeter (1) and remove.



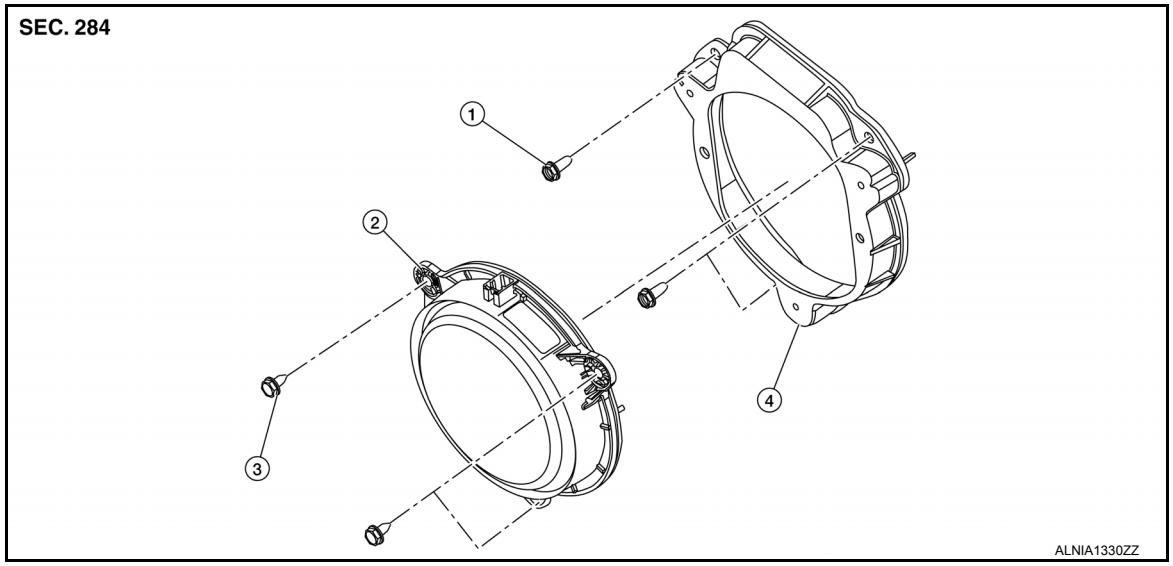
INSTALLATION

Installation is in the reverse order of removal.

REAR DOOR SPEAKER

Exploded View

INFOID:0000000012849452



1. Speaker bracket bolt
2. Rear door speaker
3. Speaker bolt
4. Speaker bracket

Removal and Installation

INFOID:0000000012849453

REMOVAL

1. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
2. Remove rear door speaker bolts.
3. Disconnect harness connector from the rear door speaker, then remove rear door speaker from speaker bracket.
4. Remove speaker bracket bolts (if necessary).
5. Remove rear door speaker bracket (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

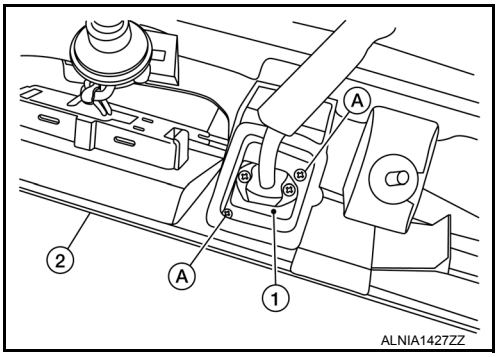
REAR VIEW CAMERA

Removal and Installation

INFOID:0000000012849454

REMOVAL

1. Remove back door outer upper finisher. Refer to EXT-45, "Removal and Installation".
2. Remove rear view camera screws (A), then remove rear view camera (1) from the back door outer upper finisher (2).



INSTALLATION

Installation is in the reverse order of removal.

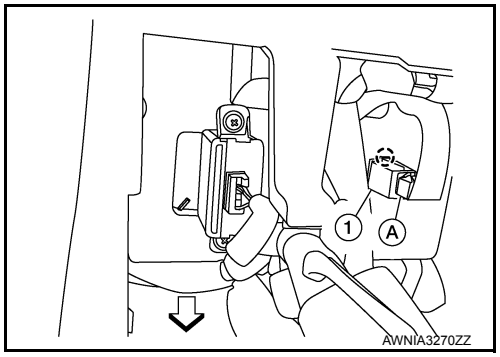
USB INTERFACE

Removal and Installation

INFOID:0000000013522424

REMOVAL

1. Remove shift selector finisher. Refer to IP-18, "Exploded View".
2. Disconnect harness connector (A) from the USB interface (1).
3. Release the pawl from the back of USB interface (1), then remove the USB interface by pulling out from the front side.
   ◌: Pawl



INSTALLATION

Installation is in the reverse order of removal.

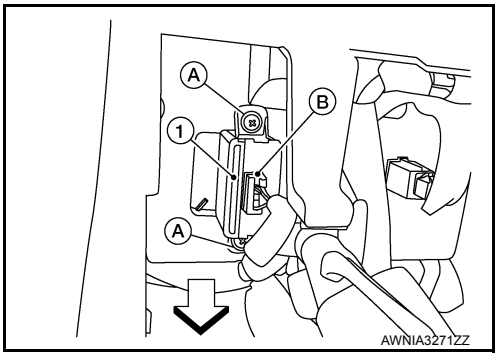
FRONT AUXILIARY INPUT JACKS

Removal and Installation

INFOID:0000000013522425

REMOVAL

1. Remove shift selector finisher. Refer to IP-18, "Exploded View".
2. Disconnect harness connector (B) from the front auxiliary input jack (1).
3. Remove front auxiliary input jack screws (A) and front auxiliary input jack (1).
   ⇦: Front



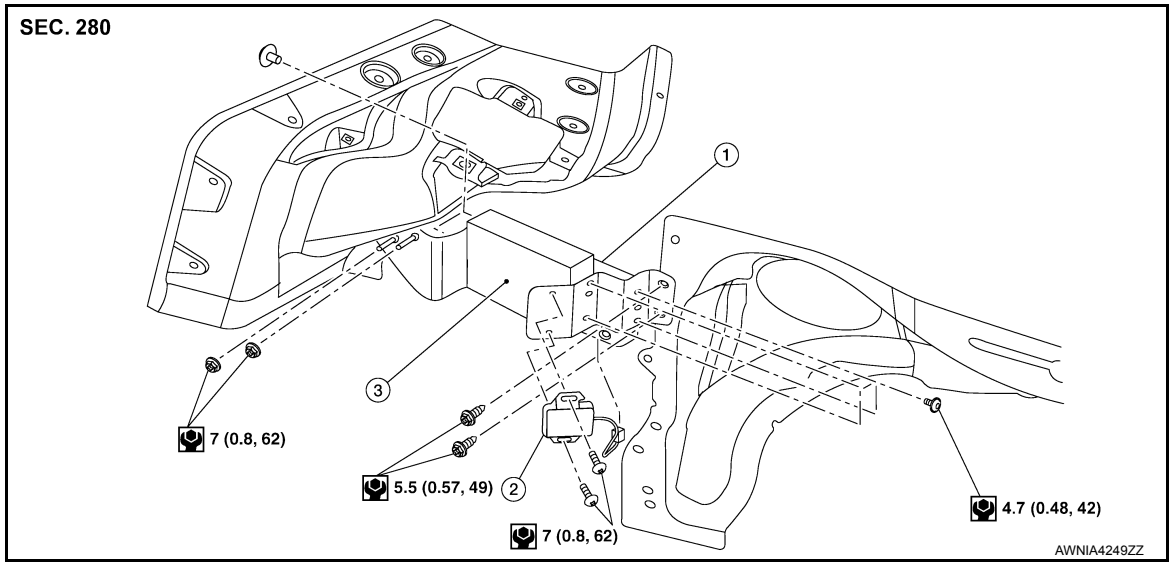
INSTALLATION

Installation is in the reverse order of removal.

BLUETOOTH® CONTROL UNIT

Exploded View

INFOID:0000000013522432



1. Bluetooth® control unit
2. Bluetooth® antenna
3. Satellite radio tuner (if equipped)

Removal and Installation

INFOID:0000000013522433

REMOVAL

1. Disconnect the negative battery terminal. Refer to PG-147, "Removal and Installation".
2. Remove satellite radio tuner (if equipped). Refer to AV-147, "Removal and Installation".
3. Disconnect the harness connectors from Bluetooth® control unit.
4. Remove Bluetooth® control unit screws and the Bluetooth® control unit.
5. Remove the Bluetooth® antenna screws and the Bluetooth® antenna.

INSTALLATION

Installation is in the reverse order of removal.

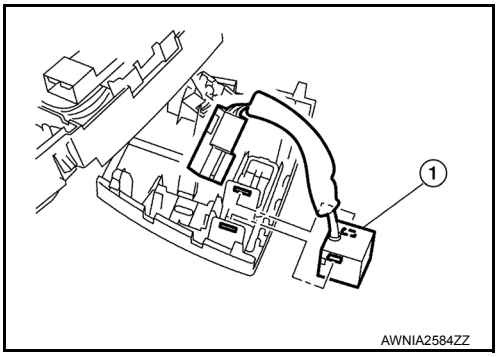
MICROPHONE

Removal and Installation

INFOID:0000000012849459

REMOVAL

1. Remove the front room/map lamp assembly. Refer to INL-64, "Removal and Installation".
2. Release the pawls, then remove the microphone (1) from the front room/map lamp assembly.
   CAUTION:
   Carefully handle the pawls that retain the microphone to avoid damaging.



INSTALLATION

Installation is in the reverse order of removal.

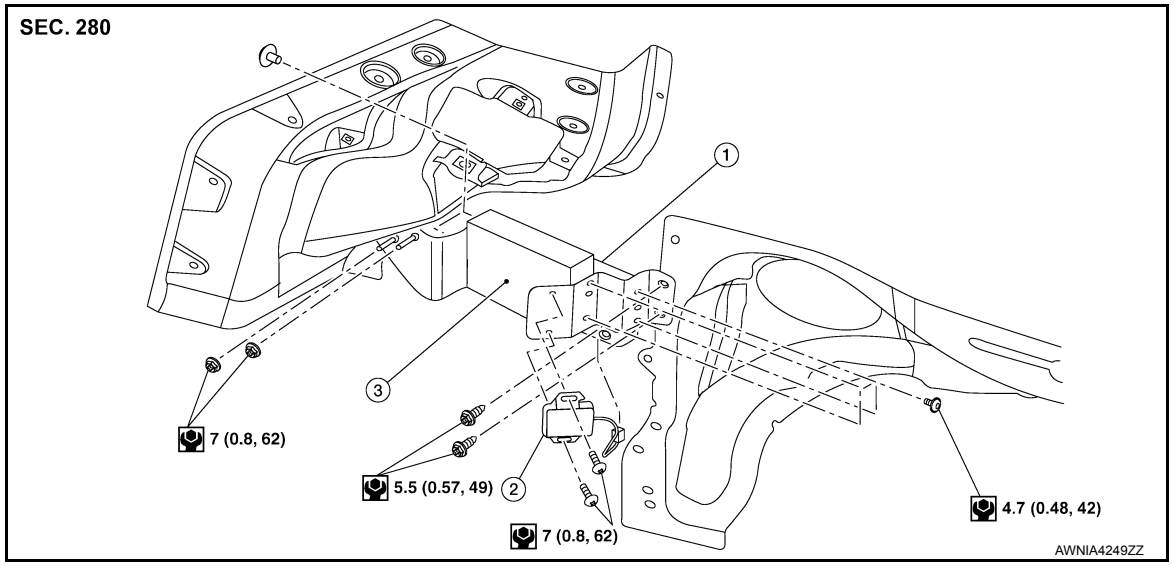
NOTE:

Check the microphone for looseness after installation.

SATELLITE RADIO TUNER

Exploded View

INFOID:0000000013522434



1. Bluetooth® control unit
2. Bluetooth® antenna
3. Satellite radio tuner

Removal and Installation

INFOID:0000000013522435

REMOVAL

1. Disconnect the negative battery terminal. Refer to PG-147, "Removal and Installation".
2. Remove the luggage side lower finisher (LH). Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
3. Disconnect the harness connectors from satellite radio antenna.
4. Remove the screws and the satellite radio tuner.

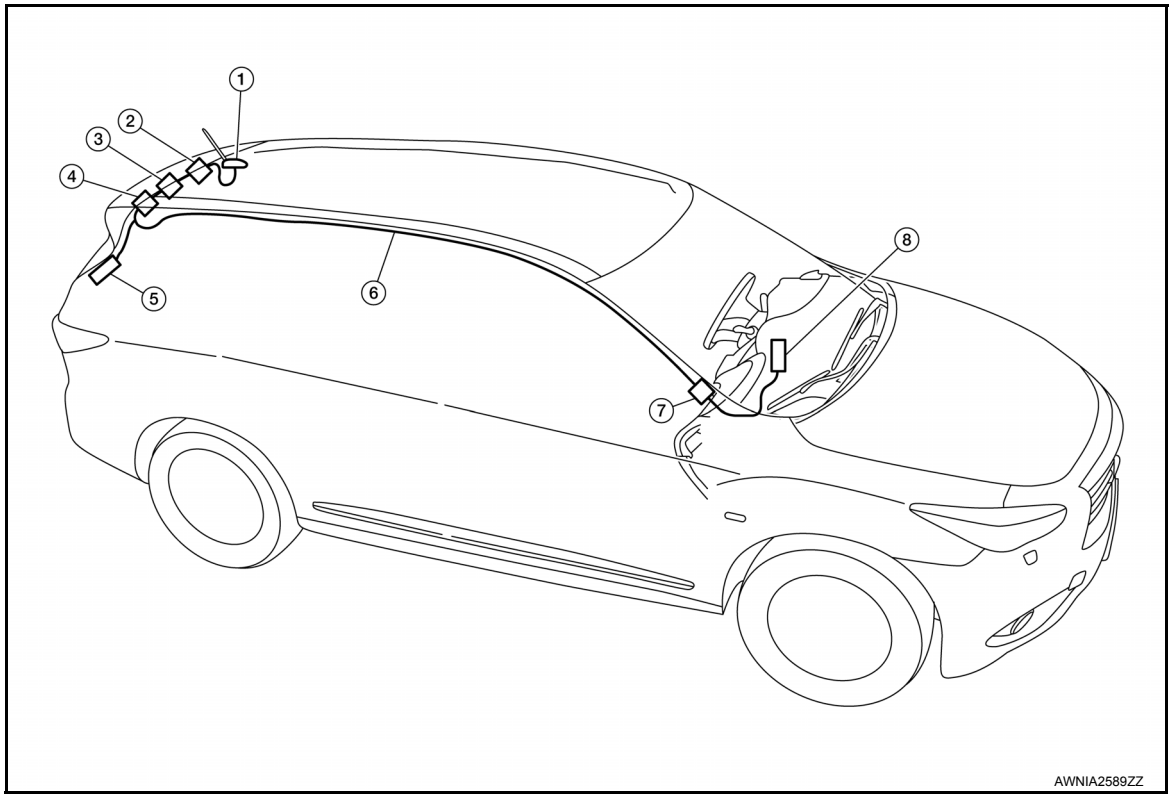
INSTALLATION

Installation is in the reverse order of removal.

AUDIO ANTENNA

Location of Antennas

INFOID:0000000012849462



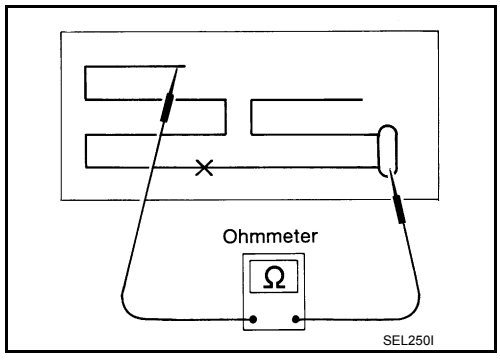
1. Antenna base (satellite antenna and antenna amp)
2. M502
3. M501
4. M503, M504
5. M505
6. Antenna Feeder
7. M95, M500
8. AV control unit M124

Window Antenna Repair

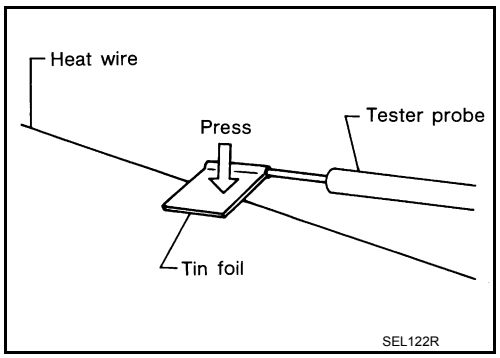
INFOID:0000000012849463

ELEMENT CHECK

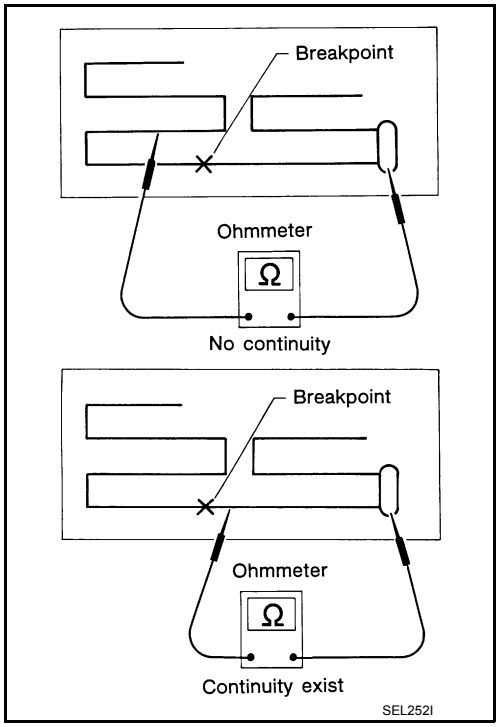
1. Attach probe circuit tester (ohm setting) to antenna terminal on each side.



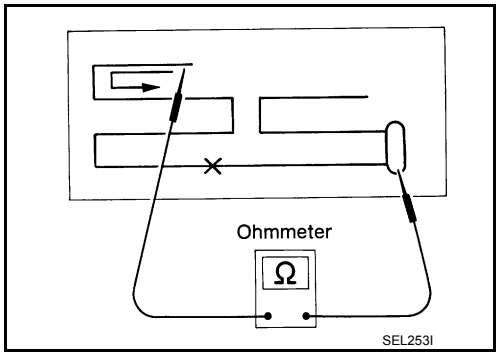
- **When measuring continuity, wrap tin foil around the top of probe. Then, press the foil against the wire with your finger.**



2. If an element is broken, no continuity will exist.



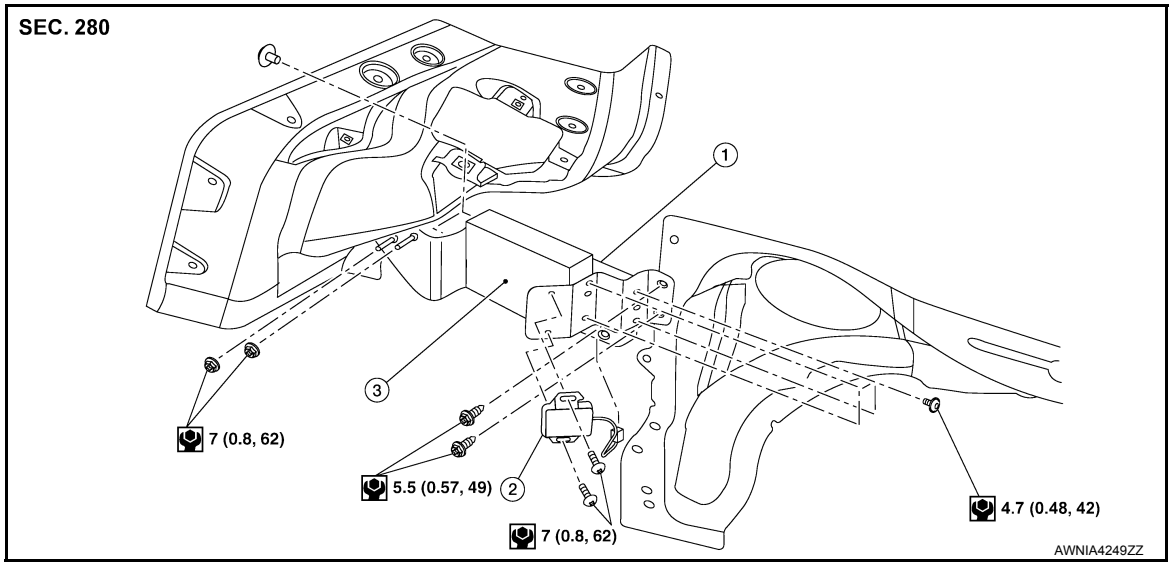
3. To locate a break, move probe along element. Tester indication will change abruptly when probe passes the broken point.



BLUETOOTH® ANTENNA

Exploded View

INFOID:0000000013522430



1. Bluetooth® control unit
2. Bluetooth® antenna
3. Satellite radio tuner (if equipped)

Removal and Installation

INFOID:0000000013522431

REMOVAL

1. Remove luggage side lower finisher (LH). Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
2. Disconnect the Bluetooth® antenna harness connector from Bluetooth® control unit.
3. Remove bolts and the Bluetooth® antenna from bracket.

INSTALLATION

Installation is in the reverse order of removal.

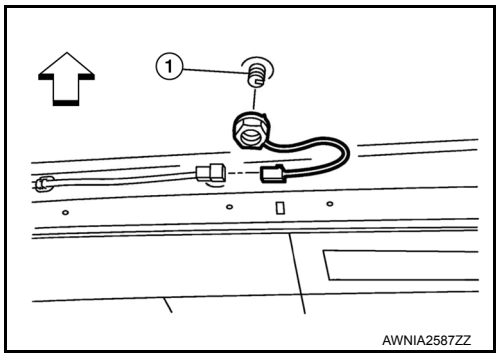
SATELLITE RADIO ANTENNA

Removal and Installation

INFOID:0000000012849465

REMOVAL

1. Lower headlining (rear). Refer to INT-27, "Removal and Installation".
2. Disconnect harness connector from antenna feeder.
3. Remove nut from satellite radio antenna (1) and remove.
   ⇦: Front



INSTALLATION

Installation is in the reverse order of removal.

Satellite radio antenna nut : 6.5 N·m (0.66 kg–m, 58 in–lb)

CAUTION:

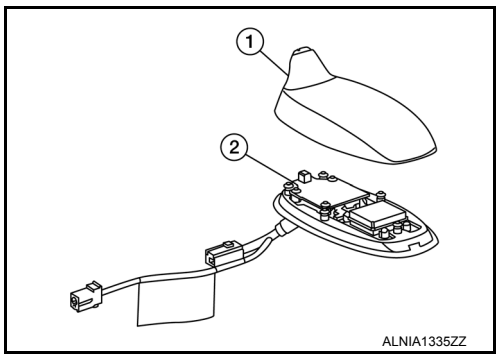
If the satellite radio antenna nut is not tightened to the specified torque, lower sensitivity of the antenna may be experienced. If the nut is tightened tighter than the specified torque, this will deform the roof panel.

Disassembly and Assembly

INFOID:0000000012849466

DISASSEMBLY

Insert a suitable tool into gaps between satellite radio antenna (2) and the cover (1), then remove the cover (1) from satellite radio antenna (2).



ASSEMBLY

Assembly is in the reverse order of disassembly.

PRECAUTION

PRECAUTIONS

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

INFOID:0000000013522440

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 dual stage front air bag modules. The SRS system may only deploy one front air bag, depending on the severity of a collision and whether the front passenger seat is occupied. Information necessary to service the system safely is included in the SR and SB section 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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, 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 SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

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

Cautions in Removing Battery Terminal and AV Control Unit (Models with AV Control Unit)

INFOID:0000000012849468

CAUTION:

Remove battery terminal and AV control unit 30 seconds or more after turning the ignition switch OFF.

NOTE:

After the ignition switch is turned OFF, the AV control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

Precaution for Trouble Diagnosis

INFOID:0000000012849469

AV COMMUNICATION SYSTEM

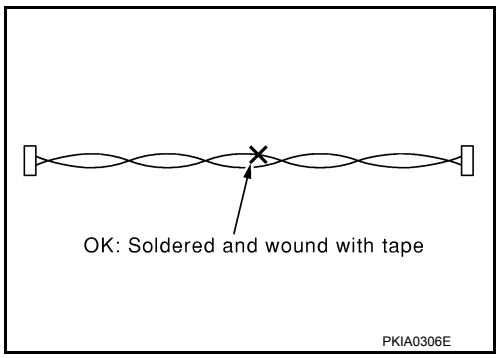
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

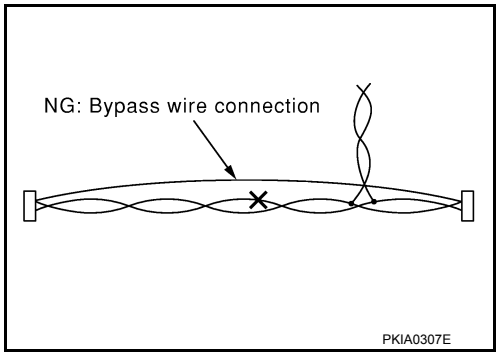
INFOID:0000000012849470

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.)



Precaution for Work

INFOID:0000000012849471

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

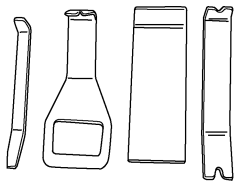
PREPARATION

PREPARATION

Special Service Tool

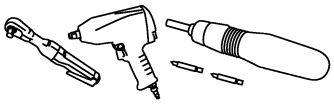
INFOID:0000000012849472

The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tools

INFOID:0000000012849473

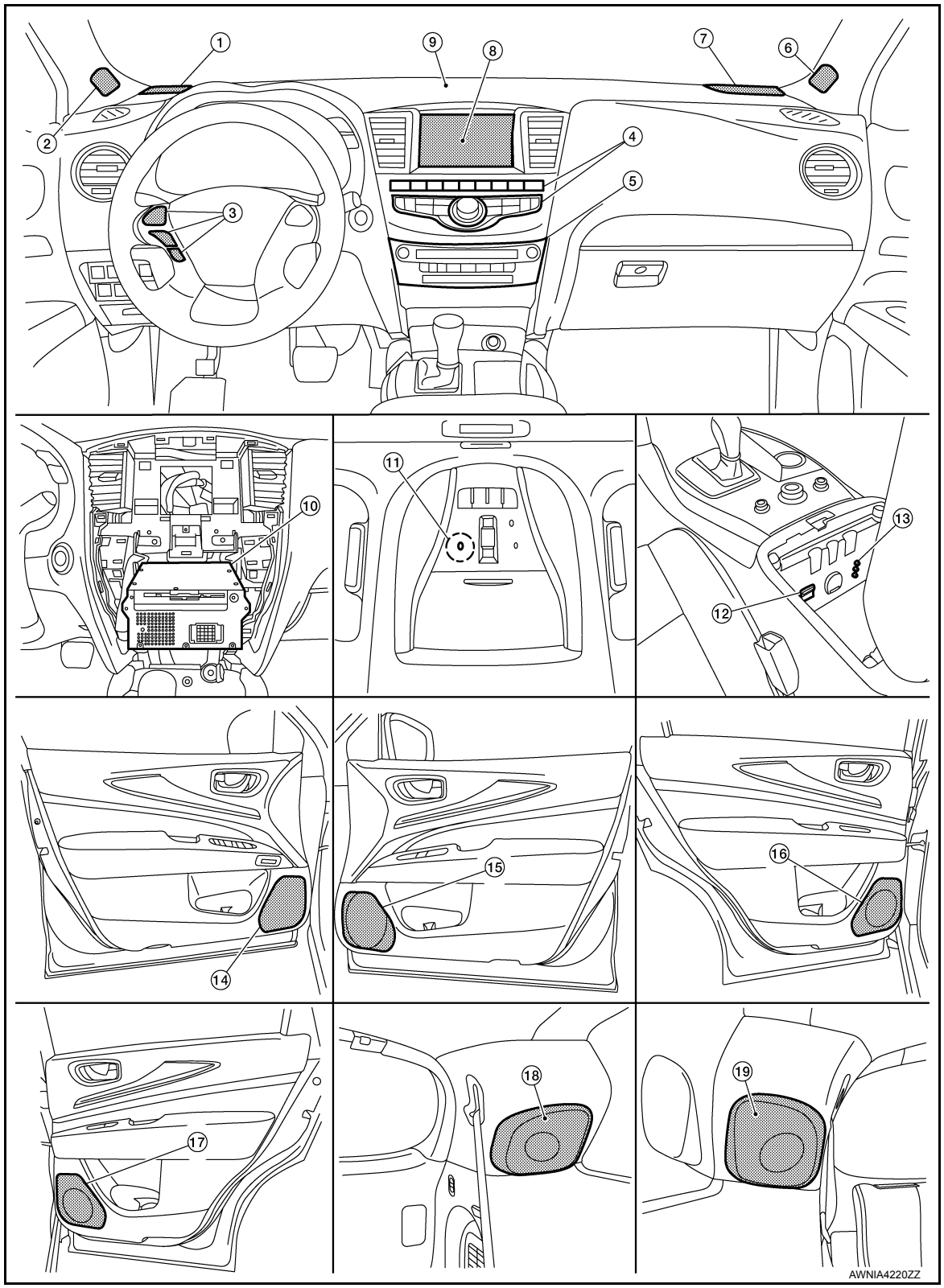
Tool name	Description
Power tools  PIIB1407E	Loosening nuts, screws and bolts

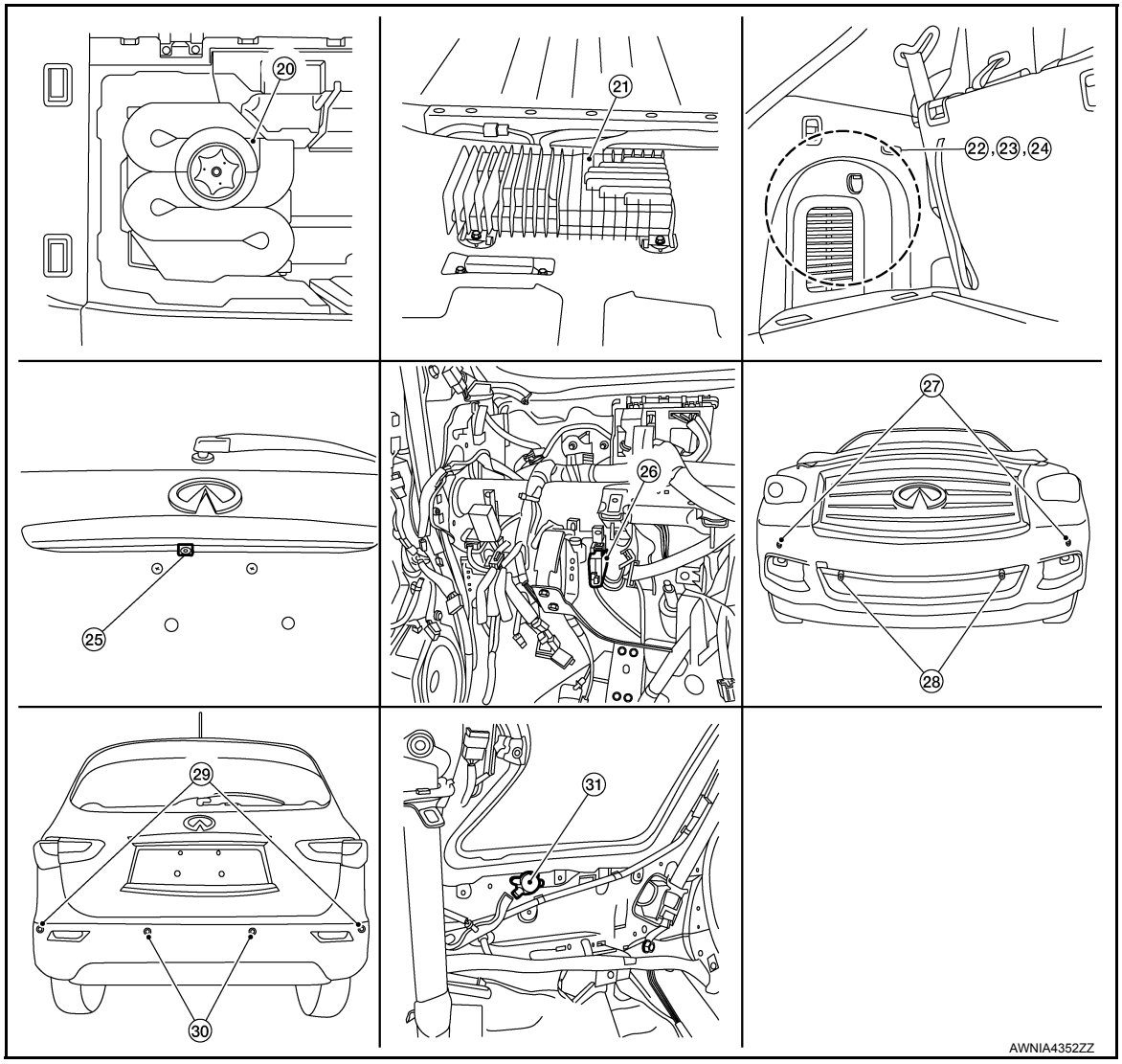
SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000012849474





1. Instrument panel tweeter LH
2. Front tweeter LH
3. Steering switch
4. Multifunction switch
5. Preset switch
6. Front tweeter RH
7. Instrument panel tweeter RH
8. Display unit
9. Center speaker
10. AV control unit (view with center stack removed)
11. Microphone
12. USB interface
13. Front auxiliary input jacks
14. Front door speaker LH
15. Front door speaker RH
16. Rear door speaker LH
17. Rear door speaker RH
18. Rear side speaker LH
19. Rear side speaker RH
20. Subwoofer
21. Bose® speaker amp.
22. Bluetooth® control unit
23. Satellite radio tuner
24. Bluetooth® antenna
25. Rear view camera
26. Sonar control unit
27. Front sonar sensors outer
28. Front sonar sensors inner (if equipped)
29. Rear sonar sensors outer
30. Rear sonar sensors inner (if equipped)
31. Sonar buzzer

Component Description

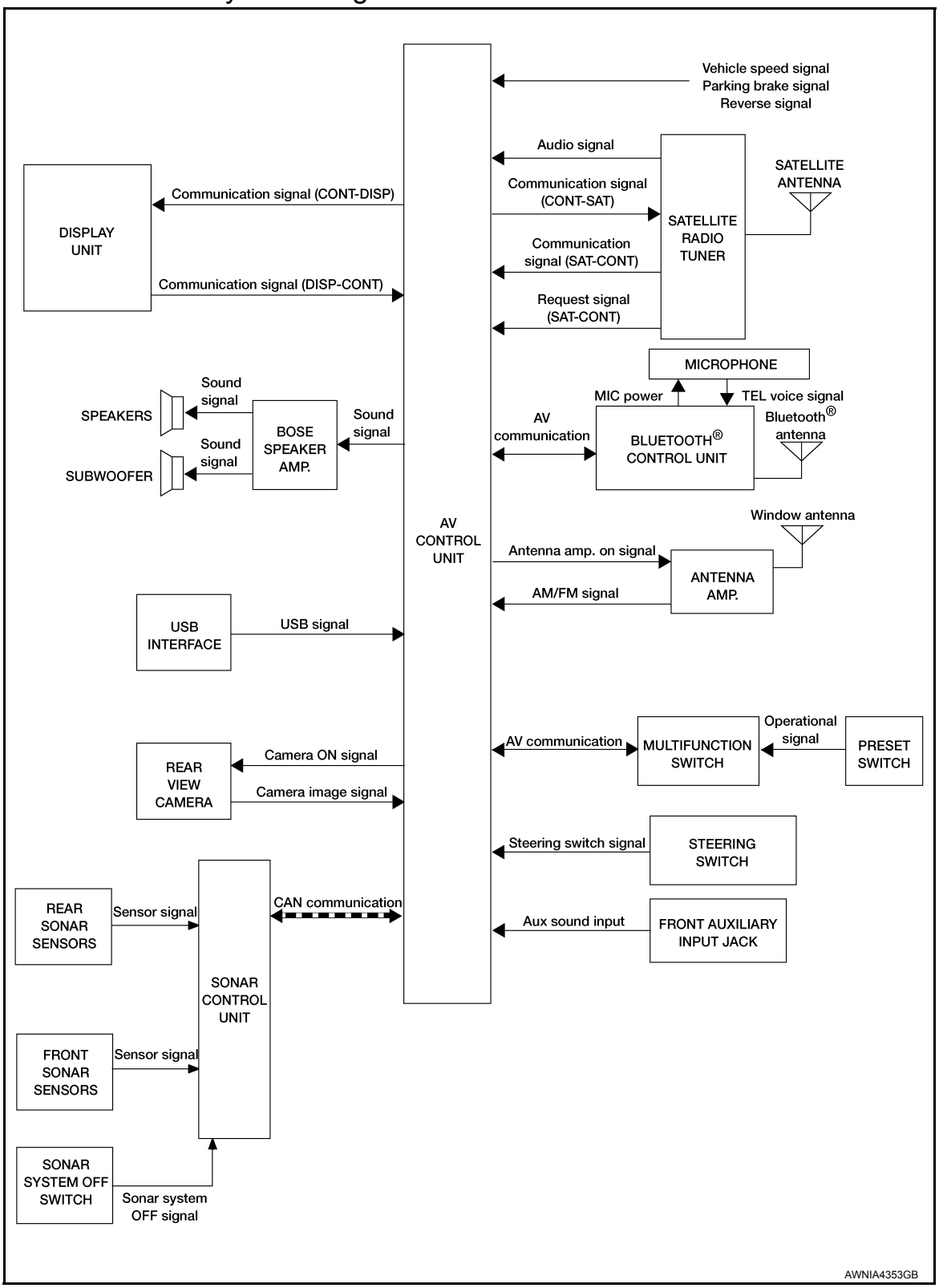
INFOID:0000000012849475

Part name	Description
AV control unit	• Master unit of MULTI AV system. • AV control unit includes audio, USB connection and vehicle status functions. • Connected to MULTI AV system control units via AV communication. • Connected to other vehicle control units via CAN communication to obtain necessary information for vehicle information function. • Receives steering angle signal via CAN communication from steering angle sensor and controls an expected course line during rear view monitor operation. • Inputs signals for driving status recognition (vehicle speed, reverse and parking brake). • TEL voice signal and voice guidance signal are input from Bluetooth® control unit. • Camera image signal is received and transmitted to display unit.
Display unit	• Display image is controlled by AV control unit via serial communication. • Receives power (signal VCC and inverter VCC) from AV control unit. • RGB image signals (RGB image, RGB area and RGB synchronizing) are input from AV control unit. • Composite image signals are input from AV control unit. • Synchronizing signals (HP, VP) are output to AV control unit.
BOSE speaker amp.	Receives sound signals from AV control unit and outputs sound signals to each speaker.
Instrument panel tweeter	Outputs high range sound signals from BOSE speaker amp.
Center speaker	Outputs mid and high range sound signals from BOSE speaker amp.
Front tweeter	Outputs high range sound signals from BOSE speaker amp.
Front door speaker	Outputs low, mid and high range sound signals from BOSE speaker amp.
Rear door speaker	Outputs low, mid and high range sound signals from BOSE speaker amp.
Rear side speaker	Outputs low, mid and high range sound signals from BOSE speaker amp.
Subwoofer	Outputs low range sound signals from BOSE speaker amp.
Multifunction switch	• Operation panel is equipped with the centralized switch where audio and air conditioner, etc. operations are integrated. • Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication. • The disk ejection operating signal is performed by hardwire.
Preset switch	• Operation panel is equipped with the centralized switch where audio operations are integrated. • Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication.
Rear view camera	• Camera power supply is input from AV control unit. • Vehicle rear view image is transmitted to display unit via AV control unit.
Steering angle sensor	Connected to AV control unit via CAN communication and transmits steering angle sensor signal.
Steering switch	• Operations for audio, hands-free phone and voice recognition are possible. • Steering switch signal (operation signal) is output to AV control unit.
Microphone	• Used for hands-free phone and voice recognition operation. • Microphone signal is transmitted to Bluetooth® control unit. • Power (Microphone VCC) is supplied from Bluetooth® control unit.
Antenna amp.	• Radio signal received by window antenna is amplified and transmitted to AV control unit. • Power (antenna amp. ON signal) is supplied from AV control unit.
Satellite radio tuner	• Inputs satellite radio signal from satellite radio antenna and outputs sound signal to AV control unit. • Controlled via serial communication (communication signal and request signal) by AV control unit.
Satellite radio antenna	Satellite radio signal is received and transmitted to satellite radio tuner.
Bluetooth® control unit	• Inputs TEL voice signal from Bluetooth® antenna and outputs it to AV control unit. • Controlled via AV communication by AV control unit.
Bluetooth® antenna	Receives TEL voice signal and outputs it to Bluetooth® control unit.

Part name	Description
Front auxiliary input jacks	Transmits image and sound signals to AV control unit.
USB connector	USB sound and data input signals are transmitted to AV control unit.
Sonar control unit	• Connected to AV control unit via CAN communication. • Receives sonar operation signal from AV control unit via CAN communication. • Transmits sonar detection status to AV control unit via CAN communication. • Judges warning level according to signals from front and rear sensors.
Front sensors	Detects front obstacle distance and transmits signal to sonar control unit.
Rear sensors	Detects rear obstacle distance and transmits signal to sonar control unit.

SYSTEM
MULTI AV SYSTEM
MULTI AV SYSTEM : System Diagram

INFOID:0000000012849476



MULTI AV SYSTEM : System Description

INFOID:0000000012849477

AUDIO SYSTEM

The audio system consists of the following components
- AV control unit
- Multifunction switch
- Preset switch
- Display unit
- Steering switch
- BOSE speaker amp.
- Center speaker
- Instrument panel tweeters
- Front tweeters
- Front door speakers
- Rear door speakers
- Rear side speakers
- Subwoofer
- Window antenna

When the audio system is on, radio signals are received by the window antenna. The AV control unit then sends audio signals to the speakers, tweeters and subwoofer.
Refer to Owner's Manual for audio system operating instructions.

SATELLITE RADIO SYSTEM

The satellite radio system consists of the following components
- Satellite antenna
- Satellite radio tuner

When the satellite radio system is on, radio signals are supplied to the satellite radio tuner from the satellite antenna. The satellite radio tuner then sends audio signals to the AV control unit.
Refer to Owner's Manual for satellite radio system operating instructions.

HANDS-FREE PHONE SYSTEM

System Operation

NOTE:

Cellular telephones must have their wireless connection set up (paired) before using the Bluetooth® telephone system.

The Bluetooth® telephone system allows users who have a Bluetooth® cellular telephone to make a wireless connection between their cellular telephone and the Bluetooth® control unit. Hands-free cellular telephone calls can be sent and received. Some Bluetooth® cellular telephones may not be recognized by the Bluetooth® control unit. When a cellular telephone or the Bluetooth® control unit is replaced, the telephone must be paired with the Bluetooth® control unit. Different cellular telephones may have different pairing procedures, refer to the cellular telephone operating manual.

Refer to the Owner's Manual for Bluetooth® telephone system operating instructions.

Bluetooth® Control Unit

When the ignition switch is turned to ACC or ON, the Bluetooth® control unit will power up. During power up, the Bluetooth® control unit is initialized and performs various self-checks. Initialization may take up to 20 seconds. If a phone is present in the vehicle and paired with the Bluetooth® control unit, Nissan Voice Recognition will then become active. Bluetooth® telephone functions can be turned off using the Nissan Voice Recognition system.

Steering Switch

When buttons on the steering switch are pushed, the resistance in steering switch circuit changes, depending on which button is pushed. The Bluetooth® control unit uses this signal to perform various functions while navigating through the voice recognition system.
The following functions can be performed using the steering switch:
- Initiate self-diagnosis of the Bluetooth® telephone system
- Start a voice recognition session
- Answer and end telephone calls
- Adjust the volume of calls

Microphone

The microphone is located in the roof console assembly. The microphone sends a signal to the Bluetooth® control unit. The microphone can be actively tested during self-diagnosis.

AV Control Unit

The AV control unit receives signals from the Bluetooth® control unit and sends audio signals to the speakers.

REAR VIEW CAMERA SYSTEM

When the shift selector is in the R position, the display shows a view to the rear of the vehicle. Lines which indicate the vehicle clearance and distances are also displayed.

SPEED SENSITIVE VOLUME SYSTEM

Volume level of this system goes up and down automatically in proportion to the vehicle speed. The control level can be selected by the customer. Refer to Owner's Manual for operating instructions.

FRONT AUXILIARY INPUT JACKS

- Image and sound can be output from an external device connected to the front auxiliary input jacks.
- AUX image signals are transmitted to each unit as follows:
- To the display unit via AV control unit.
- AUX sound signals are transmitted to each unit as follows:
- To each speaker via AV control unit and BOSE speaker amp.

SONAR SYSTEM

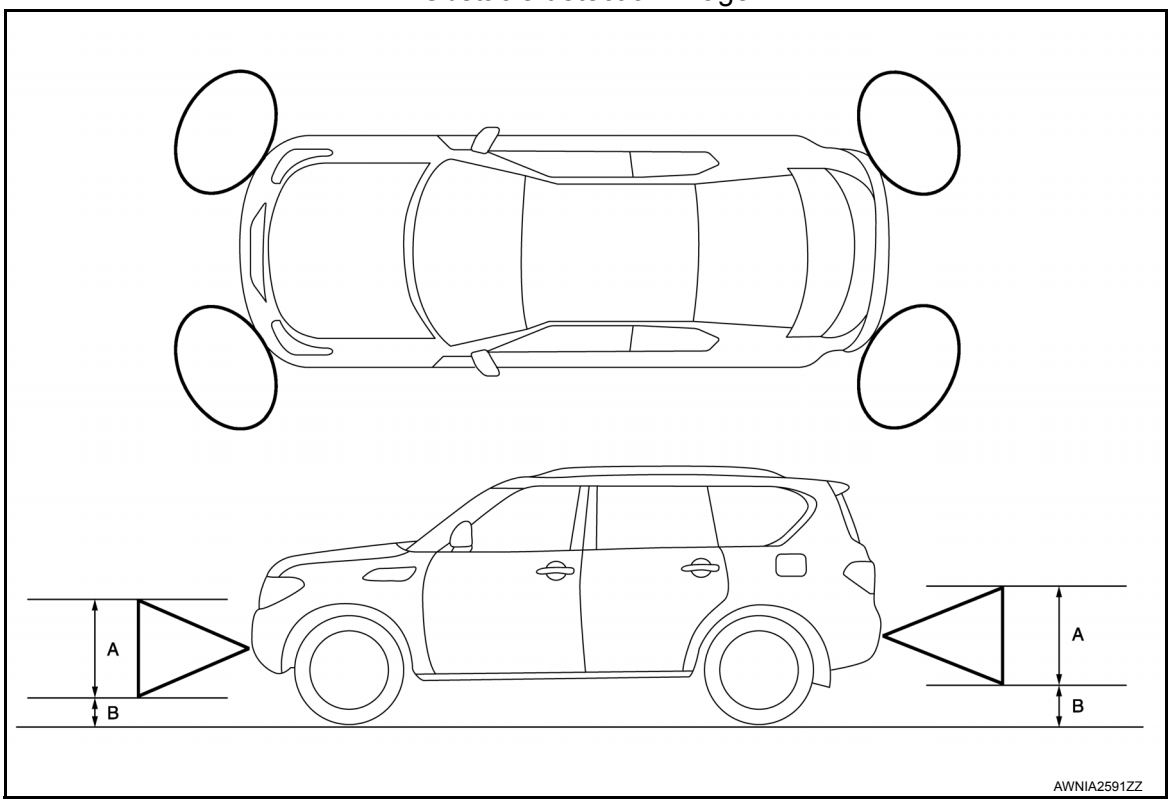
System Operation Description

- AV control unit transmits the sonar operation signal via CAN communication to sonar control unit to control the operation of sonar indicator and sonar buzzer.
- Sonar control unit transmits the detection signal and detection distance signal via CAN communication to AV control unit. AV control unit operates the applicable sonar indicator.
- When receiving a sonar operation signal from the AV control unit, the sonar control unit converts the signal into a detection distance signal and transmits it to the AV control unit via CAN communication. When receiving the detection signal, the AV control unit activates the speakers via the BOSE speaker amp.
- The sonar control unit is capable of self diagnosis. It can detect sensor malfunction or sensor harness open circuits. It transmits the diagnosis results to AV control unit and always displays the sonar indicator in red to inform the vehicle operator.

Obstacle Detection Distance

- Sonar control unit changes the outputs of the sonar indicator and warning buzzer in 3 stages according to the obstacle detection distance from the corner sensor.
- The sonar control unit can change the setting of obstacle detection distance in 4 stages.

Obstacle detection image



A. Approx. 50 cm (19.6 in) B. Approx. 15 cm (5.9 in)

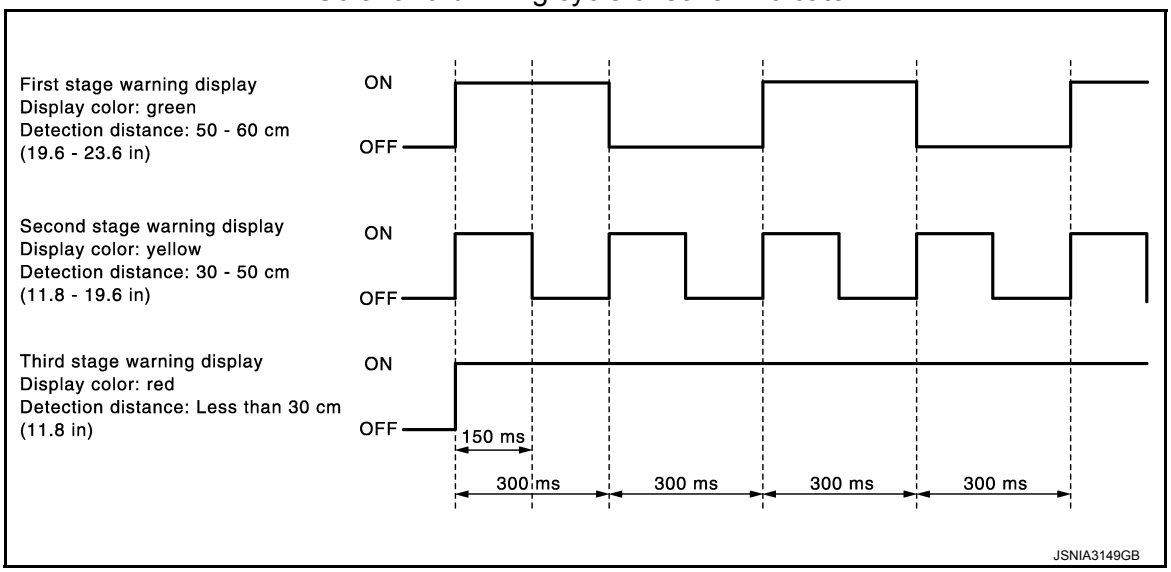
Detection distance

Warning item	Sensitivity level 1 (Fastest warning)	Sensitivity level 2 (Faster warning)	Sensitivity level 3 (Default value)	Sensitivity level 4 (Slower warning)
First stage warning	70 – 80 cm (27.5 – 31.4 in)	60 – 70 cm (23.6 – 27.5 in)	50 – 60 cm (19.6 – 23.6 in)	40 – 50 cm (15.7 – 19.6 in)
Second stage warning	50 – 70 cm (19.6 – 27.5 in)	40 – 60 cm (15.7 – 23.6 in)	30 – 50 cm (11.8 – 19.6 in)	30 – 40 cm (11.8 – 15.7 in)
Third stage warning	Less than 50 cm (19.6 in)	Less than 40 cm (15.7 in)	Less than 30 cm (11.8 in)	Less than 30 cm (11.8 in)

Sonar Indicator Display

- AV control unit that receives the detection signal and detection distance signal from sonar control unit displays the sonar indicator on display.
- AV control unit changes the color or blinking cycle of the indicator according to the detection distance.

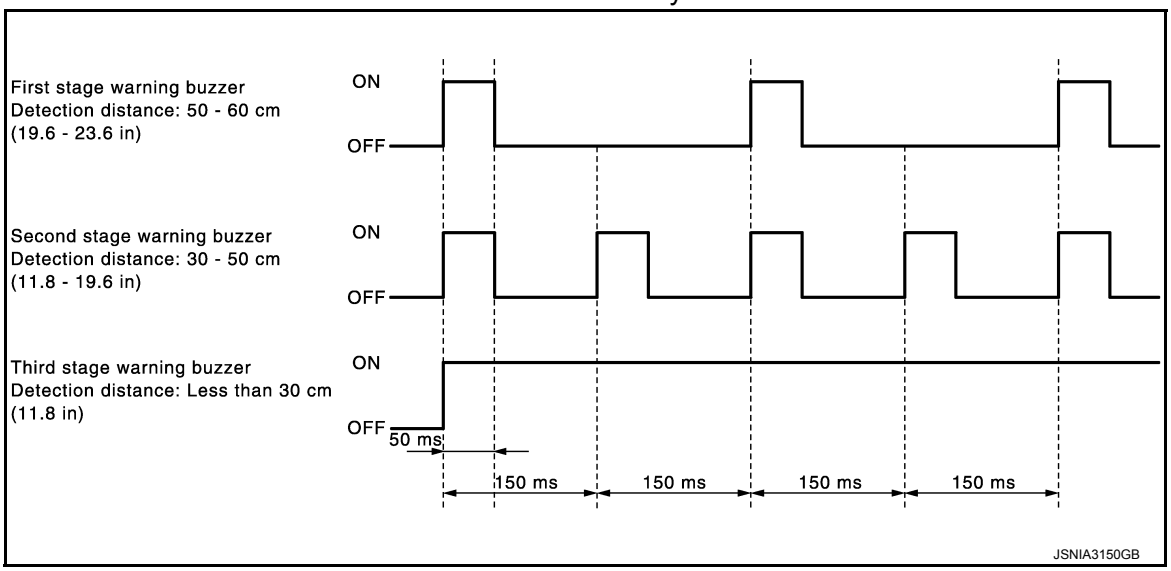
Color and blinking cycle of sonar indicator



Sonar Buzzer Operation

- Each sonar sensor transmits a sensor signal to the sonar control unit when detecting an obstacle.
- The sonar control unit converts a signal received from each sonar sensor into distance and transmits detection distance signal to the AV control unit via AV communication.
- The AV control unit transmits a buzzer signal to the BOSE amp. corresponding to each sonar sensor based on the received signal.
- When receiving a buzzer signal, the BOSE amp. transmits the buzzer signal to the each speaker. When each speaker receives a buzzer signal, a buzzer sounds.
- When the front corner sensor detects an obstacle, a buzzer is heard from the speakers on the front side.
- When the rear corner sensor detects an obstacle, a buzzer is heard from the speakers on the rear side.
- It changes the buzzer cycle in 3 stages according to the detection distance.

Sonar buzzer cycle



DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Description

INFOID:0000000012849478

The AV control unit on board diagnosis includes the following functions:

- Multifunction switch and preset switch self diagnosis that checks the ON/OFF operation (continuity) of each switch in the multifunction switch and preset switch.
  NOTE:
  The hazard switch and disk eject switch are not included in this operation check.
- AV control unit on board diagnosis performs the following functions listed in the table below:

Mode		Description
Self Diagnosis		• AV control unit diagnosis. • Diagnoses the connections across system components (between AV control unit and each unit).
Confirmation/ Adjustment	Display Diagnosis	• Color tone check using color spectrum bar display and white display. • Light and shade check by gradation bar display.
	Vehicle Signals	Diagnosis of signals can be performed for vehicle speed, parking brake, lights, ignition and reverse.
	Speaker Test	Speaker connection can be confirmed by test tone.
	Error History	• The system malfunction and frequency of past occurrences is displayed. • When malfunctioning item is selected, time and place that the malfunction last occurred are displayed.
	Camera Cont.	• Guiding line position that overlaps rear view camera image can be adjusted. • Configuration stored in the AV control unit can be checked.
	Vehicle CAN Diagnosis	Transmit/receive function of CAN communication can be monitored.
	AV COMM Diagnosis	Communication condition of each unit of Multi AV system can be monitored.
	Delete Unit Connection Log	Erase connection history of unit and error history.
	Initialize Settings	Initializes the AV control unit memory.

Perform CONSULT diagnosis if the AV control unit on board diagnosis does not start, the screen does not display anything, or the multifunction switch and preset switch self diagnosis does not function.

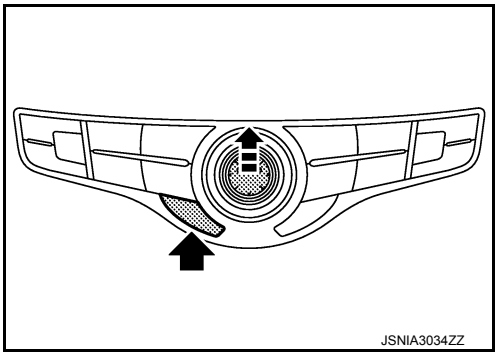
On Board Diagnosis Function

INFOID:0000000012849479

METHOD OF STARTING

Multifunction Switch and Preset Switch Self Diagnosis

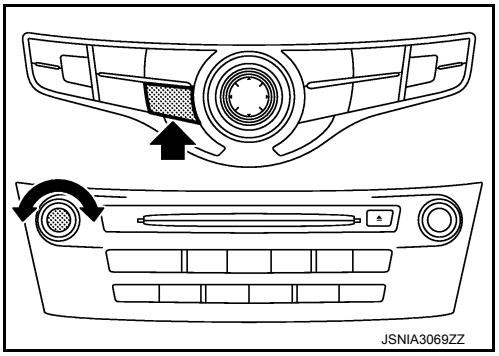
- Press the BACK and UP switches within 10 seconds after turning the ignition switch from OFF to ACC and hold them for 3 seconds or more.
- The buzzer sounds, all indicators of the switches illuminate, and the self-diagnosis mode begins.
- The ON position continuity of each switch can be checked by pressing the switch. The buzzer sounds if continuity is present.
- The self diagnosis mode is canceled when the ignition switch is turned OFF.



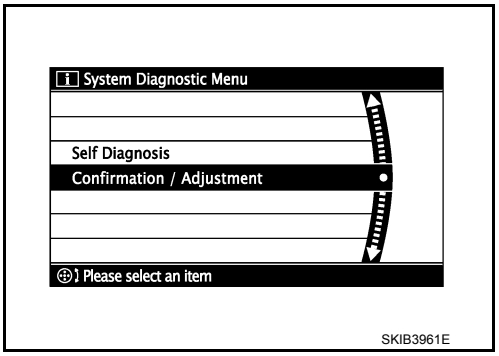
AV Control Unit Self Diagnosis

1. Turn the ignition ON.
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 self-diagnosis mode begins, a short beep will be heard. Shifting from current screen to previous screen is performed by pressing BACK button.



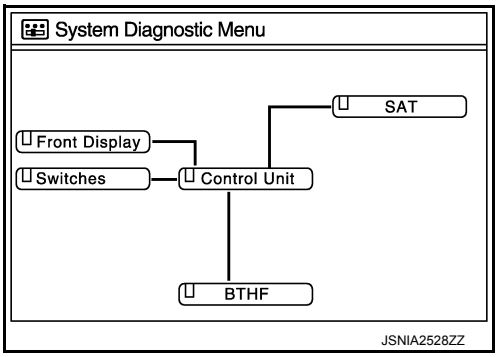
4. The trouble diagnosis initial screen is displayed, and Self Diagnosis or Confirmation/Adjustment can be selected.



SELF DIAGNOSIS MODE

AV Control Unit Self Diagnosis

1. Select Self Diagnosis.
2. Self diagnosis screen is displayed. The bar graph visible in center of screen indicates progress of self diagnosis.
3. Diagnosis results are displayed after self diagnosis is completed. Unit names and connection lines are color coded according to diagnostic results.Control Unit (AV control unit) is displayed in red.

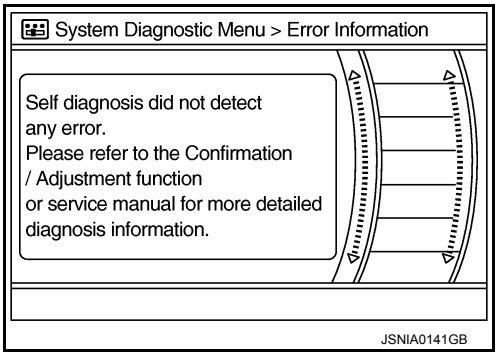


Diagnosis results	Unit	Connection line
Normal	Green	Green
Connection malfunction	Gray	Yellow
Unit malfunction [1]	Red	Green

1: Control Unit (AV control unit) is displayed in red.

- Replace AV control unit if Self Diagnosis did not run because control unit malfunction is indicated. The symptom is AV control unit internal error. Refer to AV-332, "Removal and Installation".
- 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.

4. Comments of self diagnosis results can be viewed in the diagnosis result screen.



AV Control Unit Self Diagnosis Results

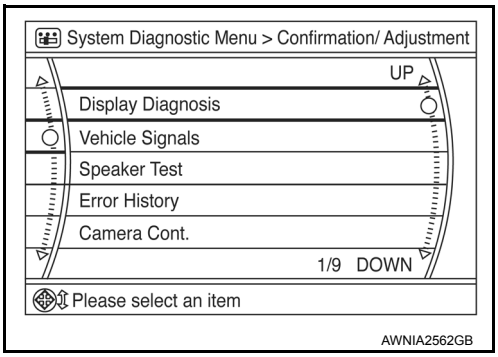
Only Unit Part Is Displayed In Red		
Screen switch	Description	Possible cause
Control unit	Malfunction is detected in AV control unit power supply or ground circuit.	• AV control unit power supply or ground circuits. Refer to AV-271. • If no malfunction is detected in AV control unit power supply and ground circuits, replace AV control unit. Refer to AV-332.
Amplifier	When either one of the following items are detected: • sound signal circuits between BOSE amp. and each speaker are malfunctioning. • BOSE amp. malfunction is detected.	• Malfunctioning speaker circuits • Replace BOSE amp. Refer to AV-338.

A Connecting Cable Between Units Is Displayed In Yellow		
Area with yellow connection lines	Description	Possible cause
Control unit ⇔ Front Display	Malfunction is detected in serial communication circuits between AV control unit and display unit.	Serial communication circuits between AV control unit and display unit. Refer to AV-247.
Control unit ⇔ SAT	When any of the following is detected: • satellite radio tuner power supply or ground circuit malfunction. • communication circuit malfunction between AV control unit and satellite radio tuner. • request signal circuit malfunction between AV control unit and satellite radio tuner.	• Satellite radio tuner power supply or ground circuits. Refer to AV-274. • Communication circuit between AV control unit and satellite radio tuner. Refer to AV-249. • Request signal circuit between AV control unit and satellite radio tuner. Refer to AV-249.
Control unit ⇔ BTHF	When any of the following is detected: • Bluetooth® control unit power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and Bluetooth® control unit.	• Bluetooth® control unit power supply or ground circuits. Refer to AV-275. • AV communication circuits between AV control unit and Bluetooth® control unit.

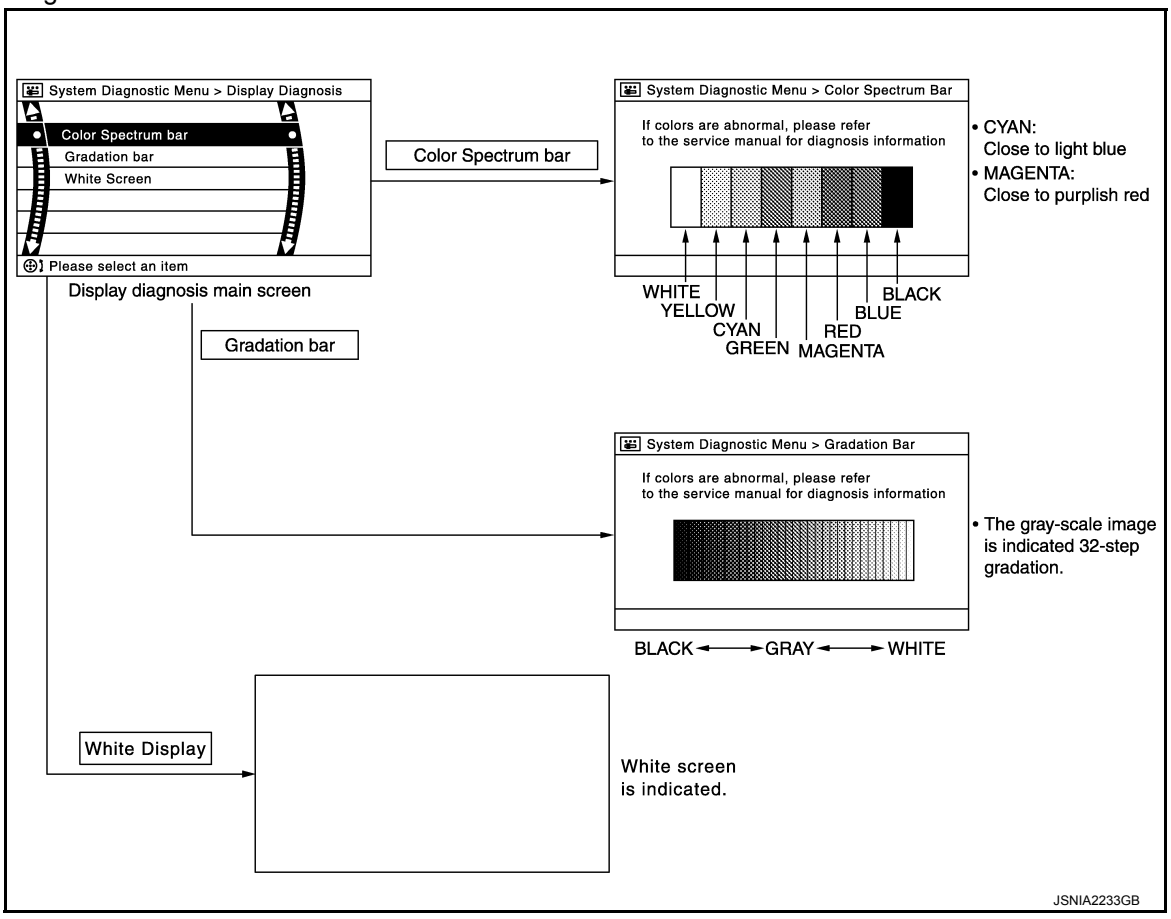
A Connecting Cable Between Units Is Displayed In Yellow		
Area with yellow connection lines	Description	Possible cause
Control unit ⇔ Amplifier	When either one of the following items are detected: • BOSE amp. power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and BOSE amp. are malfunctioning.	• BOSE amp. power supply and ground circuits. Refer to AV-273. • AV communication circuits between AV control unit and BOSE amp.
Control unit ⇔ Parking Sensor	When either one of the following items are detected: • sonar control unit power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and sonar control unit are malfunctioning.	• Sonar control unit power supply and ground circuits. • AV communication circuits between AV control unit and sonar control unit.

AV Control Unit Confirmation/Adjustment

1. Select Confirmation/Adjustment.
2. Select each switch on the Confirmation/Adjustment screen to display the relevant trouble diagnosis screen. Press the BACK switch to return to the initial Confirmation/Adjustment screen.

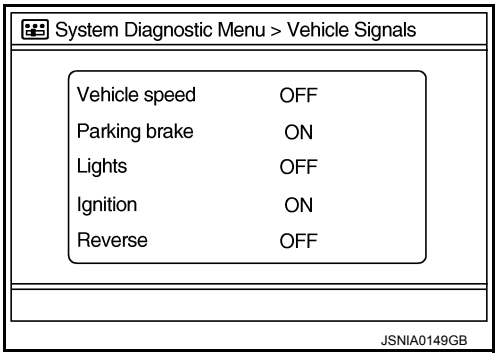


Display Diagnosis



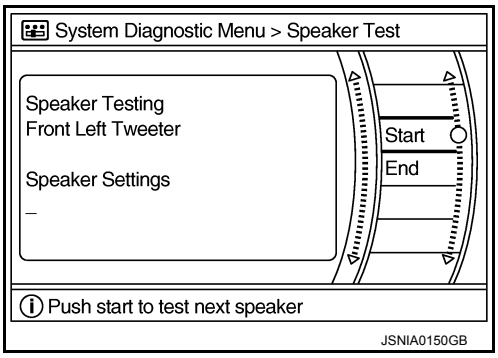
Vehicle Signals

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



Speaker Test

Select Speaker Test to display the Speaker Diagnosis screen. Press Start to generate a test tone in a speaker. Press Start again to generate a test tone in the next speaker. Press End to stop the test tones.



Error History

The self diagnosis results are judged depending on whether any error occurs from when Self diagnosis is selected until the self diagnosis results are displayed.
However, the diagnosis results are judged normal if an error has occurred before the ignition switch is turned ON and then no error has occurred until the self
diagnosis start. Check the Error Record to detect any error that may have occurred before the self diagnosis start because of this situation.
The frequency of occurrence is displayed in a count up manner. The actual count up method differs depending on the error item.

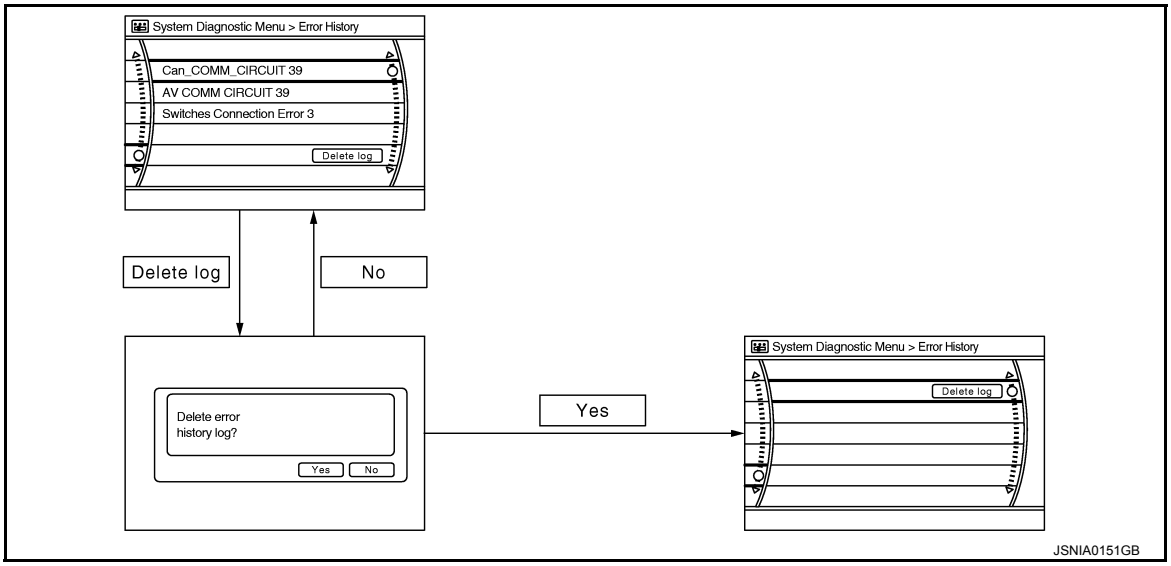
Count up method A

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

Count up method B

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

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



Error item

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

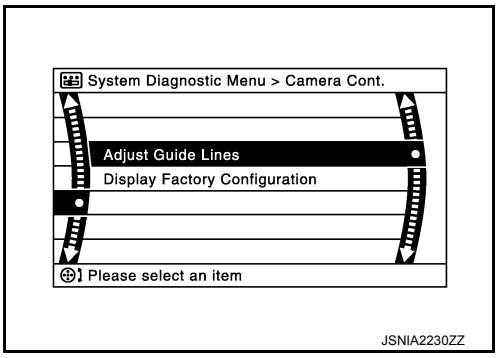
Error item	Description	Possible cause
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT, then repair the malfunctioning components according to diagnosis results. Refer to AV-173
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-332.
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		
Steer. Angle Sensor Calibration	Predictive course line center position adjustment of the steering angle sensor is incomplete.	Adjust the predictive course line center position of the steering angle sensor. Refer to AV-173.
Amplifier Temperature Error	BOSE amp. malfunction is detected.	Replace the BOSE amp. Refer to AV-338.
Display Connection Error	When any of the following is detected: • display unit power supply or ground circuits malfunction. • communication circuit malfunction between AV control unit and display unit.	• Display unit power supply or ground circuits. Refer to AV-271. • Communication circuits between AV control unit and display unit. Refer to AV-247.
XM Connection Error	When any of the following is detected: • satellite radio tuner power supply or ground circuit malfunction. • communication circuit malfunction between AV control unit and satellite radio tuner. • request signal circuit malfunction between AV control unit and satellite radio tuner.	• Satellite radio tuner power supply or ground circuits. Refer to AV-274. • Communication circuit between AV control unit and satellite radio tuner. Refer to AV-249. • Request signal circuit between AV control unit and satellite radio tuner. Refer to AV-249.

Error item	Description	Possible cause
FL-DOOR SPEAKER OUT: open	When either one of the following items are detected: • sound signal circuits between BOSE amp. and front door speaker LH are malfunctioning. • sound signal circuits between BOSE amp. and front door tweeter LH are malfunctioning.	• Sound signal circuits between BOSE amp. and front door speaker LH. • Sound signal circuits between BOSE amp. and front door tweeter LH.
FL-DOOR SPEAKER OUT: short		
FL-DOOR SPEAKER: short to ground		
FL-DOOR SPEAKER: short to battery		
FL-DOOR TWEETER OUT: open		
FL-DOOR TWEETER OUT: short		
FL-DOOR TWEETER OUT: short to ground		
FL-DOOR TWEETER OUT: short to battery		
FR-DOOR SPEAKER OUT: open	When either one of the following items are detected: • sound signal circuits between BOSE amp. and front door speaker RH are malfunctioning. • sound signal circuits between BOSE amp. and front door tweeter RH are malfunctioning.	• Sound signal circuits between BOSE amp. and front door speaker RH. • Sound signal circuits between BOSE amp. and front door tweeter RH.
FR-DOOR SPEAKER OUT: short		
FR-DOOR SPEAKER OUT: short to ground		
FR-DOOR SPEAKER OUT: short to battery		
FR-DOOR TWEETER OUT: open		
FR-DOOR TWEETER OUT: short		
FR-DOOR TWEETER OUT: short to ground		
FR-DOOR TWEETER OUT: short to battery		
FL-INST TWEETER OUT: open	Sound signal circuits between BOSE amp. and tweeter LH are malfunctioning.	Sound signal circuits between BOSE amp. and tweeter LH.
FL-INST TWEETER OUT: short		
FL-INST TWEETER OUT: short to ground		
FL-INST TWEETER OUT: short to battery		
FC-INST SPEAKER OUT: open	Malfunction is detected sound signal circuits between BOSE amp. and center speaker.	Sound signal circuits between BOSE amp. and center speaker.
FC-INST SPEAKER OUT: short		
FC-INST SPEAKER OUT: short to ground		
FC-INST SPEAKER OUT: short to battery		
FR-INST TWEETER OUT: open	Sound signal circuits between BOSE amp. and tweeter RH are malfunctioning.	Sound signal circuits between BOSE amp. and tweeter RH.
FR-INST TWEETER OUT: short		
FR-INST TWEETER OUT: short to ground		
FR-INST TWEETER OUT: short to battery		
2L-DOOR SPEAKER OUT: open	Sound signal circuits between BOSE amp. and rear door speaker LH are malfunctioning.	Sound signal circuits between BOSE amp. and rear door speaker LH.
2L-DOOR SPEAKER OUT: short		
2L-DOOR SPEAKER OUT: short to ground		
2L-DOOR SPEAKER OUT: short to battery		
2R-DOOR SPEAKER OUT: open	Sound signal circuits between BOSE amp. and rear door speaker RH are malfunctioning.	Sound signal circuits between BOSE amp. and rear door speaker RH.
2R-DOOR SPEAKER OUT: short		
2R-DOOR SPEAKER OUT: short to ground		
2R-DOOR SPEAKER OUT: short to battery		
RL-SPEAKER OUT: open	Sound signal circuits between BOSE amp. and rear speaker LH are malfunctioning.	Sound signal circuits between BOSE amp. and rear speaker LH.
RL-SPEAKER OUT: short		
RL-SPEAKER OUT: short to ground		
RL-SPEAKER OUT: short to battery		

Error item	Description	Possible cause
RR-SPEAKER OUT: open RR-SPEAKER OUT: short RR-SPEAKER OUT: short to ground RR-SPEAKER OUT: short to battery	Sound signal circuits between BOSE amp. and rear speaker RH are malfunctioning.	Sound signal circuits between BOSE amp. and rear speaker RH.
SUBWOOFER OUT: open SUBWOOFER OUT: short SUBWOOFER OUT: short to ground SUBWOOFER OUT: short to battery	Sound signal circuits between BOSE amp. and subwoofer are malfunctioning.	Sound signal circuits between BOSE amp. and subwoofer.
• AV COMM CIRCUIT • Switches Connection Error	When any of the following is detected: • Multifunction switch power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and multifunction switch.	• Multifunction switch power supply or ground circuits. Refer to AV-275. • AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT • Amplifier Connection Error	When either one of the following items are detected: • BOSE amp. power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and BOSE amp. are malfunctioning.	• BOSE amp. power supply and ground circuits. Refer to AV-273. • AV communication circuits between AV control unit and BOSE amp.
• AV COMM CIRCUIT • BTHF Unit Connection Error	When any of the following is detected: • Bluetooth® control unit power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and Bluetooth® control unit.	• Bluetooth® control unit power supply or ground circuits. Refer to AV-275. • AV communication circuits between AV control unit and Bluetooth® control unit.
• AV COMM CIRCUIT • Sonar Connection Error	When either one of the following items are detected: • sonar control unit power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and sonar control unit are malfunctioning.	• Sonar control unit power supply and ground circuits. • AV communication circuits between AV control unit and sonar control unit.
• AV COMM CIRCUIT • Sonar Connection Error • Switches Connection Error • BTHF Unit Connection Error	AV communication circuit malfunction between AV control unit and multifunction switch.	AV communication circuits between AV control unit and multifunction switch.

Camera Cont.

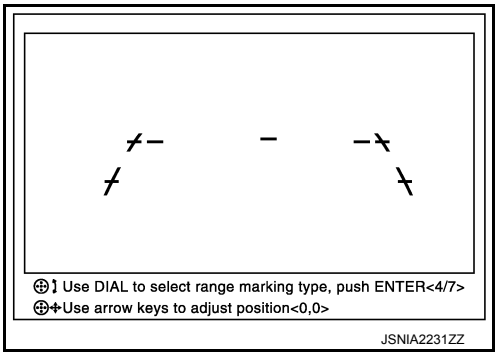
The two functions of “Correct Draw Line of Rear view Cam”, “Confirm Configuration” are available.



Adjust Offset of Rear view Camera

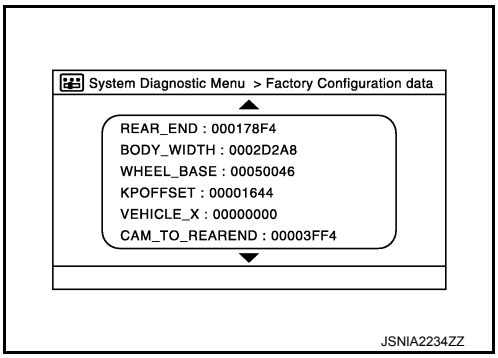
- Use this mode to adjust the guide line display position of the rear view monitor if necessary after removing the rear view monitor camera.

CAUTION:
After the adjustment, never perform other operations for one minute.



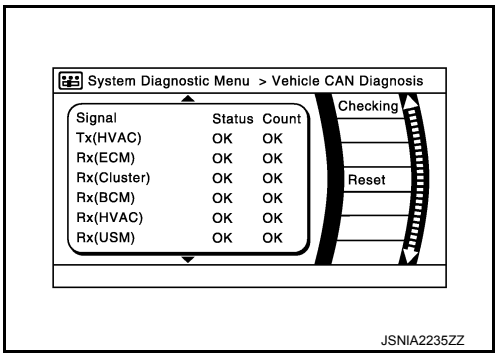
Factory Configuration Confirmation

- Configuration stored in the AV control unit can be checked.



Vehicle CAN Diagnosis

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

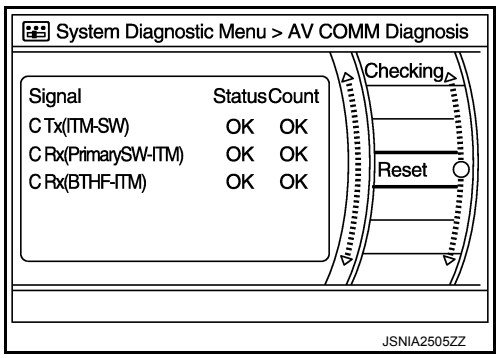


Items	Display (Current)	Malfunction counter (Past)
Tx(HVAC)	OK / ???	OK / 0 – 39
Rx(ECM)	OK / ???	OK / 0 – 39
Rx(Cluster)	OK / ???	OK / 0 – 39
Rx(BCM)	OK / ???	OK / 0 – 39
Rx(HVAC)	OK / ???	OK / 0 – 39
Rx(USM)	OK / ???	OK / 0 – 39
Rx(VDC)	OK / ???	OK / 0 – 39
Rx(STRG)	OK / ???	OK / 0 – 39

NOTE:
“???” indicates UNKWN.

AV COMM Diagnosis

- Displays the communication status between AV control 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.

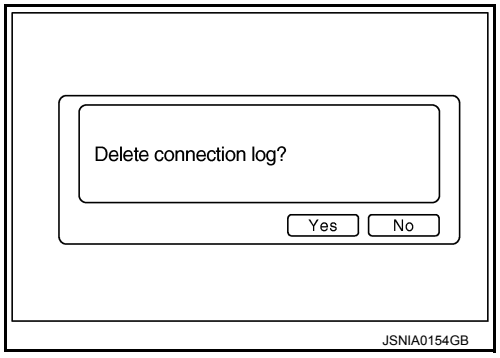


Items	Status (Current)	Counter (Past)
C Tx(ITM-SW)	OK / ???	OK / 0 – 39
C Rx(PrimarySW-ITM)	OK / ???	OK / 0 – 39
C Rx(BTHF-ITM)	OK / ???	OK / 0 – 39
C Rx(Sonar-ITM)	OK / ???	OK / 0 – 39

NOTE:
“???” indicates UNKWN.

Delete Unit Connection Log

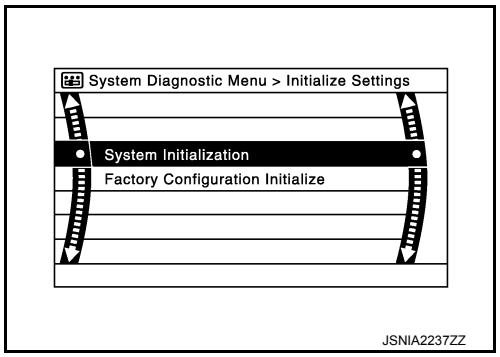
Deletes any unit connection records and error records from the AV control unit memory. (Clear the records of the unit that has been removed.)



Initialize Settings

“User Data Initialization” and “Accessory Number Initialization” are possible.

CAUTION:
- **Never perform Accessory Number Initialization except when configuration is unsuccessful.**
- **Accessory Number Initialization requires configuration. For details, refer to AV-237, "CONFIGURATION (AV CONTROL UNIT) : Description".**



CONSULT Function

INFOID:0000000012849480

CAUTION:
After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to “sleep mode”, potentially causing a discharged battery and a no-start condition.

CONSULT FUNCTIONS

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

Direct Diagnostic Mode	Description
ECU Identification	The AV control unit part number is displayed.
Self Diagnostic Result	The AV control unit self diagnostic results are displayed.
Data Monitor	The AV control unit input/output data is displayed in real time.
Work support	The settings for AV control unit functions can be changed.

Direct Diagnostic Mode	Description
Configuration	• The vehicle specification can be read and saved. • The vehicle specification can be written when replacing AV control unit.
CAN Diag Support Mntr	• The result of transmit/receive diagnosis of AV communication is displayed. • The result of transmit/receive diagnosis of CAN communication is displayed.

ECU IDENTIFICATION

The part number of AV control unit is displayed.

SELF DIAGNOSTIC RESULT

Refer to AV-185, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
VHCL SPD SIG [On/Off]	Indicates vehicle speed signal received from combination meter on CAN communication line.
PKB SIG [On/Off]	Indicates condition of park brake signal.
ILLUM SIG [On/Off]	Indicates condition of illumination signal for the multifunction switch and preset switch.
IGN SIG [On/Off]	Indicates condition of ignition signal.
REV SIG [On/Off]	Indicates condition of reverse signal received from BCM.

WORK SUPPORT

Conditions	Description
ST ANGLE SENSOR ADJUSTMENT	Steering angle sensor neutral position adjustment can be performed. Refer to BRC-82, "Description" .

CONFIGURATION

Refer to AV-237, "CONFIGURATION (AV CONTROL UNIT) : Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-25, "CAN Diagnostic Support Monitor".

DIAGNOSIS SYSTEM (BLUETOOTH® CONTROL UNIT)

Diagnosis Description

INFOID:0000000012849481

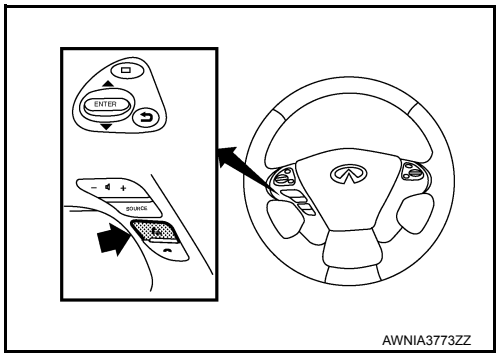
The Bluetooth® control unit has two diagnostic checks. The first diagnostic check is performed automatically every ignition cycle during control unit initialization. The second diagnostic check is performed by the technician using the steering switch prior to trouble diagnosis.

BLUETOOTH® CONTROL UNIT INITIALIZATION CHECKS

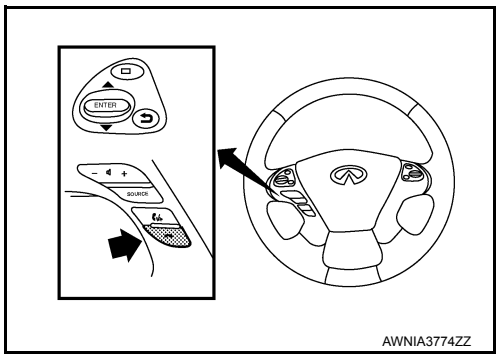
- Internal control unit failure
- Bluetooth® antenna connection open or shorted
- Steering switch [(PHONE/SEND), (PHONE/END)] stuck closed
- Vehicle speed pulse count
- Microphone connection test (with playback to operator)
- Bluetooth® inquiry check

OPERATION PROCEDURE

1. Turn ignition switch to ACC or ON.
2. Wait for the Bluetooth® system to complete initialization. This may take up to 20 seconds.
3. Press and hold the steering switch (PHONE/SEND) button for at least 5 seconds. The Bluetooth® system will begin to play a verbal prompt.



4. While the prompt is playing, press and hold the steering switch (PHONE/END) button until you hear the “Diagnostics mode” prompt. The Bluetooth® system will sound a 5-second beep.
5. While the beep is sounding, press and hold the steering switch (PHONE/END) button again until you hear prompts.
6. The Bluetooth® system has now entered into the diagnostic mode. Results of the diagnostic checks will be verbalized to the technician. Refer to AV-175, "Work Flow".
7. After the failure records are reported, an interactive microphone test will be performed. Follow the voice prompt. If the microphone test fails, refer to AV-175, "Work Flow".



Work Flow

INFOID:0000000012849482

Failure Message	Action
“Internal failure”	Replace Bluetooth® control unit. Refer to AV-349, "Removal and Installation".
“Bluetooth® antenna open”	1. Inspect harness connection. 2. Replace Bluetooth® antenna. Refer to AV-358, "Removal and Installation".
“Bluetooth® antenna shorted”	
“Phone/Send for Hands Free System is stuck”	Check steering switch. Refer to AV-321, "Diagnosis Procedure".
“Phone/End for the Hands Free System is stuck”	
“Microphone test” (failed interactive test)	1. Inspect harness between Bluetooth® control unit and microphone. 2. Replace microphone. Refer to AV-350, "Removal and Installation".

DIAGNOSIS SYSTEM (SONAR CONTROL UNIT)

CONSULT Function

INFOID:0000000013600294

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

APPLICATION ITEMS

CONSULT can display each diagnostic item using the diagnostic test modes shown as follows:

Test mode	Function
ECU Identification	Sonar control unit part number can be read.
Self Diagnostic Result	Sonar control unit checks the conditions and displays memorized error.
Data Monitor	Sonar control unit input/output data in real time.
Active Test	Gives a drive signal to a load to check the operation.
Work support	Changes setting of each function.

ECU IDENTIFICATION

Displays the part number of sonar control unit.

SELF-DIAGNOSTIC RESULTS

For details, refer to AV-200, "DTC Index".

DATA MONITOR

Monitor Item	Description
VEHICLE SPEED [mph/km/h]	Indicates vehicle speed signal received from combination meter on CAN communication line.
SONAR C/U POWER SUPPLY [V]	Indicates condition of supply voltage signal to sonar control unit.
SENSOR VOLTAGE [V]	Indicates condition of voltage signal to sonar sensors.
DETECTION MODE [Mode 1/Mode 2]	Indicates condition of display detection mode.
SW OPRT AFTR IGN ON [Yes/No]	Indicates condition of switch operation after ignition ON signal.
SONAR TEMPORARY OFF [Yes/No]	Indicates condition of sonar system.
SONAR PERMANENT OFF [Yes/No]	Indicates condition of sonar system.
P N RANGE [On/Off]	Indicates condition of selector lever P (park) or N (neutral) position.
LED [On/Off]	Indicates condition of LED.
TRAILER CONNECT [CON/N CON]	Indicates condition of Trailer connector.
REVERSE RANGE [On/Off]	Indicates condition of transmission range switch R (reverse) position.

Monitor Item	Description
SHRT DST FRM RR SENS [cm/in]	Indicates distance to obstacle.
SHRT DST FRM FR SENS [cm/in]	
COR[RL] [cm/in]	
COR[RL]->CEN[RL]/CEN[R] [cm/in]	
CEN[RL]/CEN[R]->COR[RL] [cm/in]	
CEN[RL]/CEN[R] [cm/in]	
CEN[RL]->CEN[RR] [cm/in]	
CEN[RR]->CEN[RL] [cm/in]	
CEN[RR] [cm/in]	
CEN[RR]/CEN[R]->COR[RR] [cm/in]	
COR[RR]-> CEN[RR]/CEN[R] [cm/in]	
COR[RR] [cm/in]	
COR[FL] [cm/in]	
COR[FL]->CEN[FL]/CEN[F] [cm/in]	
CEN[FL]/CEN[F]->COR[FL] [cm/in]	
CEN[FL]/CEN[F] [cm/in]	
CEN[FL]->CEN[FR] [cm/in]	
CEN[FR]->CEN[FL] [cm/in]	
CEN[FR] [cm/in]	
CEN[FR]/CEN[F]->COR[FR] [cm/in]	
COR[FR]-> CEN[FR]/CEN[F] [cm/in]	
COR[FR] [cm/in]	
RVRB TIME COR[RL] [ms/sec]	Indicates distance to obstacle.
RVRB TIME COR[RR] [ms/sec]	
RVRB TIME CEN[RL] [ms/sec]	
RVRB TIME CEN[RR] [ms/sec]	
RVRB TIME COR[FL] [ms/sec]	
RVRB TIME COR[FR] [ms/sec]	
RVRB TIME CEN[FL] [ms/sec]	
RVRB TIME CEN[FR] [ms/sec]	

ACTIVE TEST

Test Item	Description
REAR BUZZER	This test is able to check rear buzzer operation [On/Off].

WORK SUPPORT

Support Item	Setting	Description
VOLUME SETTING	Vol.1	Allows you to set volume of warning tone.
	Low	
	Vol.3	
	Middle	
	Vol.5	
	High	
	Off	

Support Item	Setting	Description
TRAILER HITCH DETECTION RANGE ADJUSTMENT	Qu	Allows you to adjust rear sonar sensors for trailer towing.
	UP	
	DOWN	
	Qd	

ECU DIAGNOSIS INFORMATION

AV CONTROL UNIT

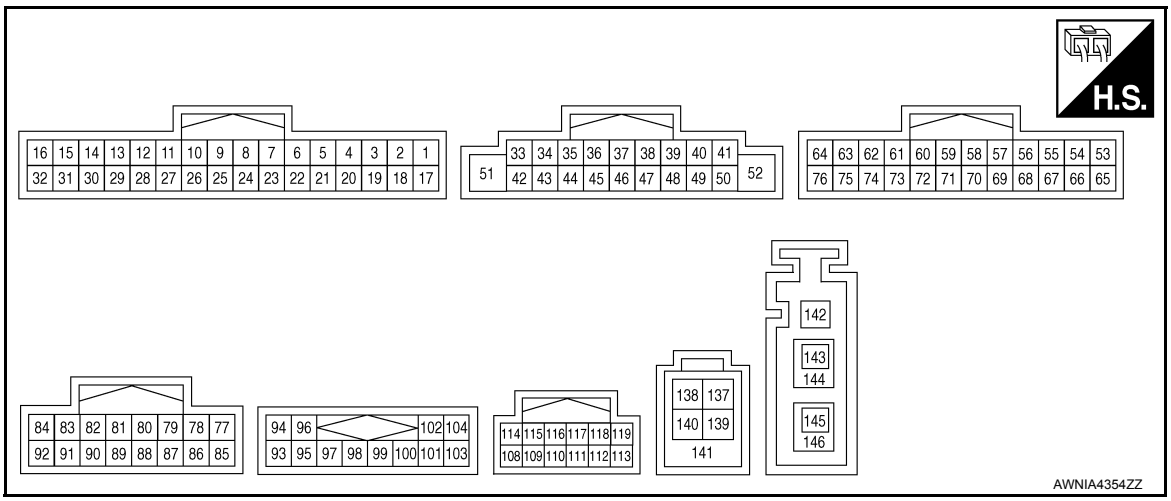
Reference Value

INFOID:0000000012849483

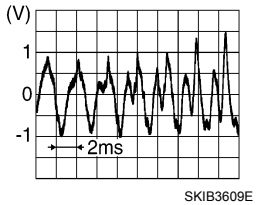
VALUES ON THE DIAGNOSIS TOOL

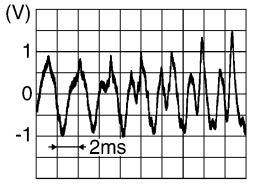
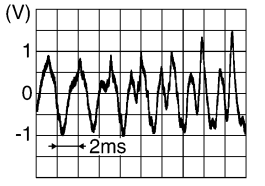
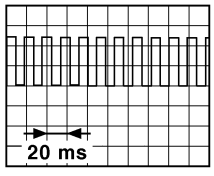
Monitor Item	Condition	Value/Status
VHCL SPD SIG	Vehicle speed = 0 km/h (0 MPH).	Off
	Vehicle speed > 0 km/h (0 MPH).	On
PKB SIG	Parking brake released.	Off
	Parking brake applied.	On
ILLUM SIG	Illumination signal is not received.	Off
	Illumination signal is received.	On
IGN SIG	Ignition switch OFF or ACC.	Off
	Ignition switch ON.	On
REV SIG	Selector lever in any position other than R.	Off
	Selector lever in R position.	On

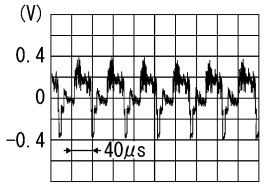
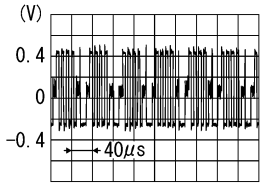
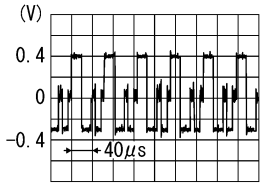
TERMINAL LAYOUT

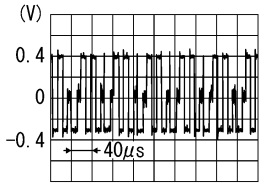
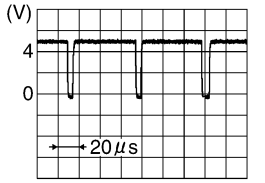
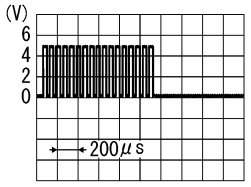
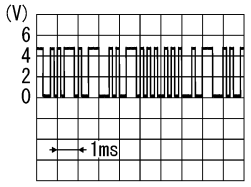
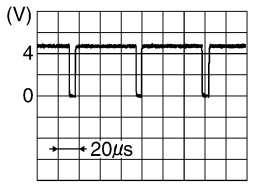


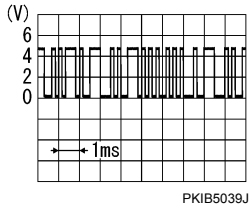
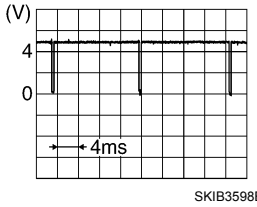
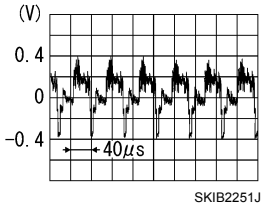
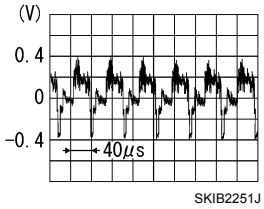
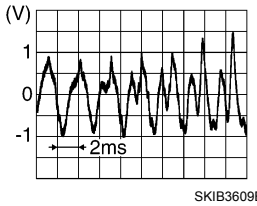
PHYSICAL VALUES

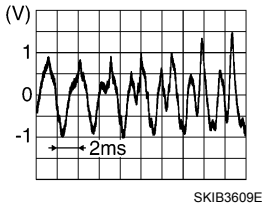
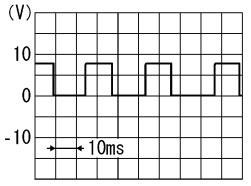
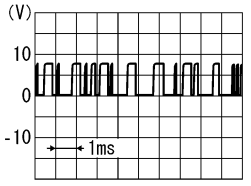
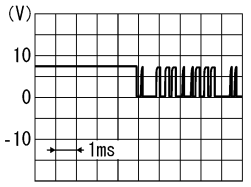
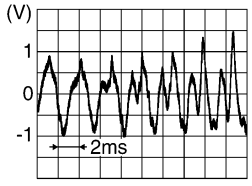
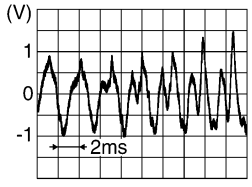
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
5 (W)	4 (B)	Bluetooth® voice signal	Input	ON	During voice guide output with switch pressed	
6 (Shield)	—	Bluetooth® voice signal shield	—	—	—	—

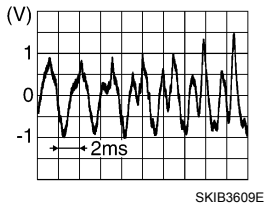
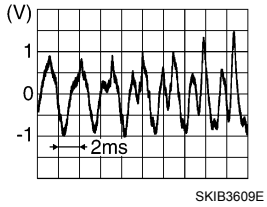
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
10 (V)	Ground	Switch ground	—	ON	—	0 V
11 (L)	—	CAN–H	Input/ Output	—	—	—
12 (P)	—	CAN–L	Input/ Output	—	—	—
13 (SB)	—	AV communication signal 1 (H)	Input/ Output	—	—	—
14 (LG)	—	AV communication signal 1 (L)	Input/ Output	—	—	—
15 (SB)	—	AV communication signal 2 (H)	Input/ Output	—	—	—
16 (LG)	—	AV communication signal 2 (L)	Input/ Output	—	—	—
20 (R)	22 (B)	AUX sound signal RH	Input	ON	AUX mode selected	 SKIB3609E
21 (W)	22 (B)	AUX sound signal LH	Input	ON	AUX mode selected	 SKIB3609E
25 (Shield)	—	AUX sound signal shield	—	—	—	—
28 (Y)	Ground	Disk eject signal	Input	ON	Pressing eject switch	0 V
					Except above	5.0 V
29 (LG)	Ground	Ignition signal	Input	ON	—	Battery voltage
30 (R)	Ground	Reverse signal	Input	ON	Selector lever in R position	Battery voltage
					Selector lever in any position other than R	0 V
31 (G)	Ground	Parking brake signal	Input	ON	Parking brake applied	0 V
					Parking brake released	Battery voltage
32 (BG)	Ground	Vehicle speed signal	Input	ON	Vehicle speed approx. 40 km/h (25 MPH)	**NOTE:** The maximum voltage varies depending on the specification (destination unit).  JSNIA0012GB

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
38 (G)	47 (B)	Steering switch signal A	Input	ON	Press SOURCE switch	0V
					Press △ switch	1.0V
					Press ▽ switch	2.0V
					Press switch	3.0V
					Press ENTER switch	4.0V
					Except above	5.0V
39 (P)	Ground	ACC power supply	Input	ACC	—	Battery voltage
41 (R)	Ground	Illumination signal	Input	OFF	Lighting switch OFF	0 V
					Lighting switch ON	Battery voltage
48 (W)	47 (B)	Steering switch signal B	Input	ON	Press − switch	0V
					Press + switch	1.0V
					Press switch	2.0V
					Press switch	3.0V
					Press DISP switch	4.0V
					Except above	5.0V
51 (Y)	Ground	Battery power supply	Input	OFF	—	Battery voltage
52 (GR)	Ground	Ground	—	ON	—	0 V
53 (B)	Ground	Composite image signal	Output	ON	Camera image or AUX image displayed	 SKIB2251J
54 (W)	Ground	Composite image signal ground	—	ON	—	0 V
55 (W)	Ground	RGB signal (B: blue)	Output	ON	Begin Confirmation/Adjustment mode, then select “Color Spectrum Bar”	 SKIB2237J
56 (B)	Ground	RGB signal (G: green)	Output	ON	Begin Confirmation/Adjustment mode, then select “Color Spectrum Bar”	 SKIB2236J

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
57 (R)	Ground	RGB signal (R: red)	Output	ON	Begin Confirmation/Adjustment mode, then select “Color Spectrum Bar”	 SKIB2238J
58 (B)	Ground	RGB synchronizing signal	Output	ON	—	 SKIB3603E
59 (Shield)	—	Synchronizing signal shield	—	—	—	—
60 (W)	Ground	RGB area (YS) signal	Output	ON	RGB image displayed	5.0 V
					AUX image displayed	 PKIB4948J
61 (B)	Ground	Communication signal (DISP→CONT)	Input	ON	Adjusting display brightness	 PKIB5039J
62 (G)	Ground	Horizontal synchronizing (HP) signal	Input	ON	—	 SKIB3601E
63 (B)	Ground	Signal ground	—	OFF	—	0 V
64 (V)	Ground	Signal VCC	Output	ACC	—	9.0 V
66 (Shield)	—	Composite image signal shield	—	—	—	—
67 (Shield)	—	RGB signal shield	—	—	—	—
72 (Shield)	—	Display communication signal shield	—	—	—	—

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
73 (W)	Ground	Communication signal (CONT→DISP)	Output	ON	Adjusting display brightness	 PKIB5039J
74 (R)	Ground	Vertical synchronizing (VP) signal	Input	ON	—	 SKIB3598E
75 (LG)	Ground	Inverter ground	—	OFF	—	0 V
76 (L)	Ground	Inverter VCC	Output	ACC	—	9.0 V
82 (W)	Ground	Camera image signal	Input	ON	Camera image displayed	 SKIB2251J
83 (W)	Ground	AUX image signal	Input	ON	AUX image displayed	 SKIB2251J
87 (R)	Ground	Camera power supply	Output	ON	Selector lever in “R” position	6.0 V
88 (B)	Ground	Camera ground	—	ON	—	0 V
89 (Shield)	—	Camera image signal shield	—	—	—	—
90 (Shield)	—	AUX image signal shield	—	—	—	—
91 (B)	Ground	AUX image signal ground	—	ON	—	0 V
94 (B)	93 (W)	Satellite radio sound signal LH	Input	ON	Satellite radio mode selected	 SKIB3609E

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
96 (G)	95 (R)	Satellite radio sound signal RH	Input	ON	Satellite radio mode selected	 SKIB3609E
97 (Shield)	—	Satellite radio sound signal shield	—	—	—	—
98 (Shield)	—	Satellite communication signal shield	—	—	—	—
100 (W)	Ground	Request signal (SAT→CONT)	Input	ON	Satellite radio mode selected	 SKIA9299J
101 (B)	Ground	Communication signal (SAT→CONT)	Input	ON	Satellite radio mode selected	 SKIA9300J
102 (R)	Ground	Communication signal (CONT→SAT)	Output	ON	Satellite radio mode selected	 SKIA9301J
108 (B)	114 (W)	Pre amp sound signal rear RH	Output	ON	Sound output	 SKIB3609E
109 (W)	115 (B)	Pre amp sound signal front RH	Output	ON	Sound output	 SKIB3609E
110 (SB)	Ground	BOSE amp. ON signal	Output	ACC	—	Battery voltage

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
111 (BR)	—	Pre amp sound signal shield	—	—	—	—
112 (B)	118 (W)	Pre amp sound signal rear LH	Output	ON	Sound output	 SKIB3609E
113 (B)	119 (W)	Pre amp sound signal front LH	Output	ON	Sound output	 SKIB3609E
137 (R)	—	V BUS signal	—	—	—	—
138 (B)	—	USB ground	—	—	—	—
139 (G)	—	USB D+ signal	—	—	—	—
140 (W)	—	USB D– signal	—	—	—	—
141 (Shield)	—	USB signal shield	—	—	—	—
142 (B)	—	Antenna amp. ON signal	Output	ON	—	Battery voltage
143 (B)	—	AM - FM main	Input	—	—	—
144 (Shield)	—	Shield	—	—	—	—
145 (B)	—	FM sub	Input	—	—	—
146 (Shield)	—	Shield	—	—	—	—

DTC Index

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CONSULT Display	Reference Page
U1000: CAN COMM CIRCUIT	AV-241, "AV CONTROL UNIT : DTC Logic"
U1010: CONTROL UNIT	AV-242, "AV CONTROL UNIT : DTC Logic"
U1200: CONT UNIT	AV-243, "DTC Logic"
U1216: CAN CONT	AV-244, "DTC Logic"
U1231: AMP TEMP	AV-245, "DTC Logic"
U1232: ST ANGLE SEN CALIB	AV-246, "DTC Logic"
U1240: SWITCH CONN	AV-252, "Description"

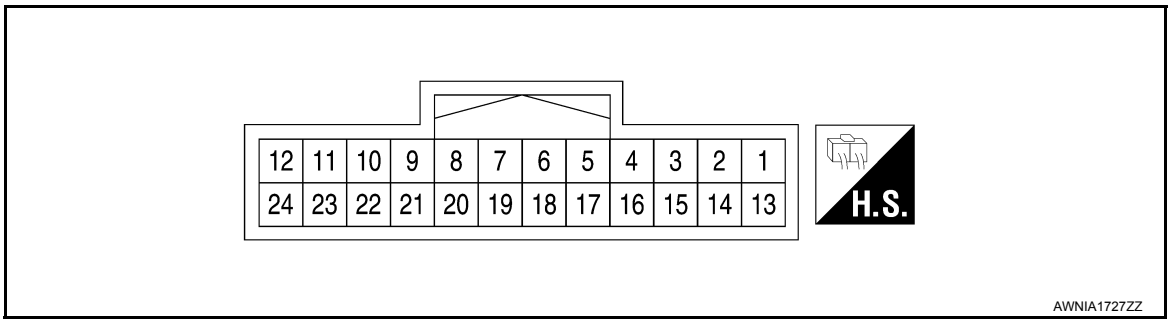
CONSULT Display	Reference Page
U1243: FRONT DISP CONN	AV-247, "DTC Logic"
U1255: SAT CONN	AV-249, "DTC Logic"
U1256: HAND FREE CONN	AV-252, "Description"
U1265: AMP ON TERMINAL (GND-SHORT or VB-SHORT)	AV-251, "DTC Logic"
U1300: AV COMM CIRCUIT	AV-252, "Description"
U1310: CONTROL UNIT	AV-253, "DTC Logic"
U1601: FL-DOOR WOOFER/TWEETER (OPEN, SHORT, GND-SHORT)	AV-254, "DTC Logic"
U1603: FL-DOOR WOOFER/TWEETER (VB-SHOR)	
U1609: FR-DOOR WOOFER/TWEETER (OPEN, SHORT, GND-SHORT)	
U160B: FR-DOOR WOOFER/TWEETER (VB-SHOR)	
U1627: F-INST L-TWEETER (OPEN, SHORT, GND-SHORT or VB-SHOR)	AV-255, "DTC Logic"
U162F: F-INST R-TWEETER (OPEN, SHORT, GND-SHORT or VB-SHOR)	
U162A: F-INST C-SQAWK (OPEN, SHORT, GND-SHORT or VB-SHOR)	AV-256, "DTC Logic"
U1684: 2L-DOOR SPEAKER/TWEETER (OPEN, SHORT, GND-SHORT)	AV-257, "DTC Logic"
U1687: 2L-DOOR SPEAKER/TWEETER (VB-SHOR)	
U162C: 2R-DOOR SPEAKER/TWEETER (OPEN, SHORT, GND-SHORT)	
U162F: 2R-DOOR SPEAKER/TWEETER (VB-SHOR)	
U175D: R-LUGGAGE L-WOOFER (OPEN, SHORT, GND-SHORT or VB-SHOR)	AV-258, "DTC Logic"
U176A: R-ROOF L-WK (OPEN, SHORT, GND-SHORT or VB-SHOR)	AV-259, "DTC Logic"
U1772: R-ROOF R-WK (OPEN, SHORT, GND-SHORT or VB-SHOR)	

DISPLAY UNIT

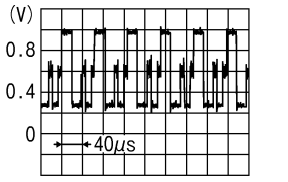
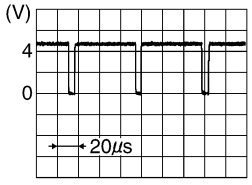
Reference Value

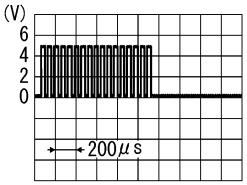
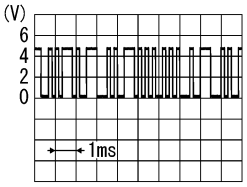
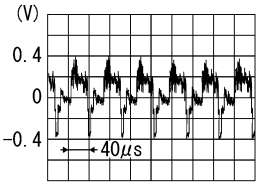
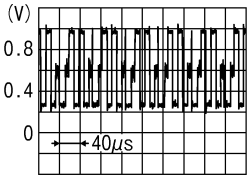
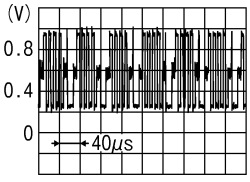
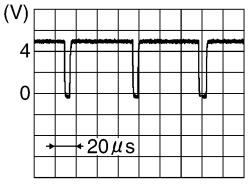
INFOID:0000000012849485

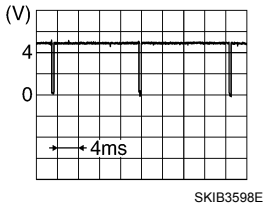
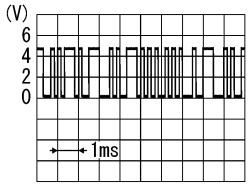
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (B)	Ground	Ground	—	ON	—	0V
2 (L)	Ground	Inverter VCC	Input	ACC	—	9V
3 (V)	Ground	Signal VCC	Input	ACC	—	9V
4 (W)	Ground	Composite image ground	—	ON	—	0V
5 (Shield)	—	Composite image signal shield	—	—	—	—
6 (B)	Ground	RGB signal (G: green)	Input	ON	Begin Confirmation/Adjustment mode, then select “Color Spectrum Bar”	 JSNIA1030ZZ
7 (Shield)	—	RGB signal shield	—	—	—	—
8 (G)	Ground	Horizontal synchronizing (HP) signal	Output	ON	—	 SKIB3601E

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
9 (W)	Ground	RGB area (YS) signal	Input	ON	RGB image displayed	5V
					DVD image displayed	 PKIB4948J
11 (W)	Ground	Communication signal (CONT→DISP)	Input	ON	Adjusting display brightness	 PKIB5039J
13 (LG)	Ground	Inverter ground	—	ON	—	0V
14 (B)	Ground	Signal ground	—	ON	—	0V
15 (B)	Ground	Composite image signal	Input	ON	Camera image displayed	 SKIB2251J
17 (R)	Ground	RGB signal (R: red)	Input	ON	Begin Confirmation/Adjustment mode, then select “Color Spectrum Bar”	 JSNIA1029ZZ
18 (W)	Ground	RGB signal (B: blue)	Input	ON	Begin Confirmation/Adjustment mode, then select “Color Spectrum Bar”	 JSNIA1031ZZ
19 (B)	Ground	RGB synchronizing signal	Input	ON	—	 SKIB3603E

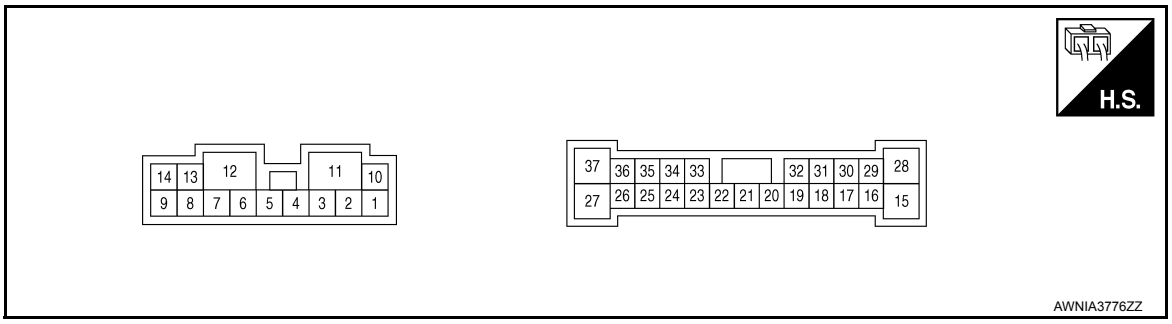
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
20 (R)	Ground	Vertical synchronizing (VP) signal	Output	On	—	 SKIB3598E
21 (Shield)	—	Synchronizing signal shield	—	—	—	—
22 (B)	Ground	Communication signal (DISP→CONT)	Output	ON	Adjusting display brightness	 PKIB5039J
23 (Shield)	—	Communication signal shield	—	—	—	—

BOSE AMP.

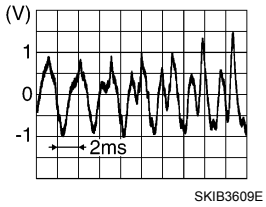
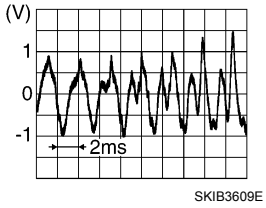
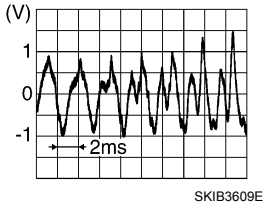
Reference Value

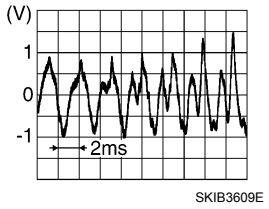
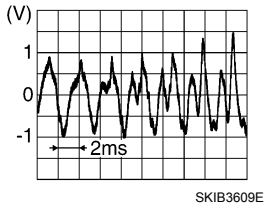
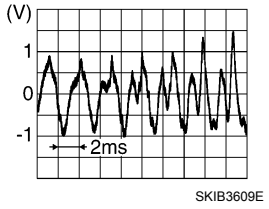
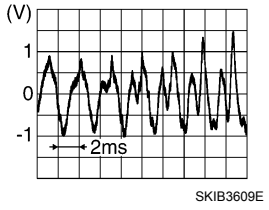
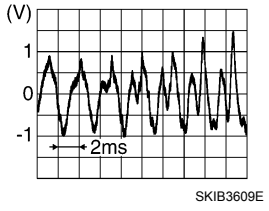
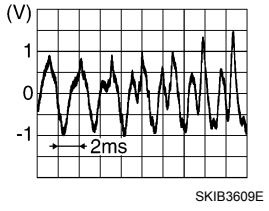
INFOID:0000000012849486

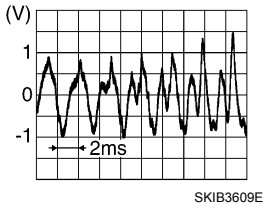
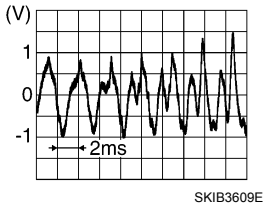
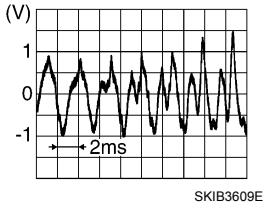
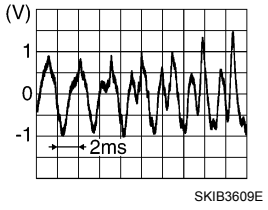
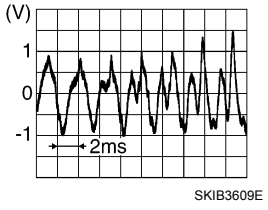
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (W)	2 (G)	Sound signal rear side speaker	Output	ON	Sound output	
4 (G)	3 (W)	Sound signal tweeter RH	Output	ON	Sound output	
5 (R)	6 (G)	Sound signal subwoofer 2	Output	ON	Sound output	
7 (B)	—	Ground	—	ON	—	0 V
10 (LG)	Ground	Battery power supply	Input	OFF	—	Battery voltage
11 (Y)	Ground	Battery power supply	Input	OFF	—	Battery voltage
12 (B)	—	Ground	—	ON	—	0 V

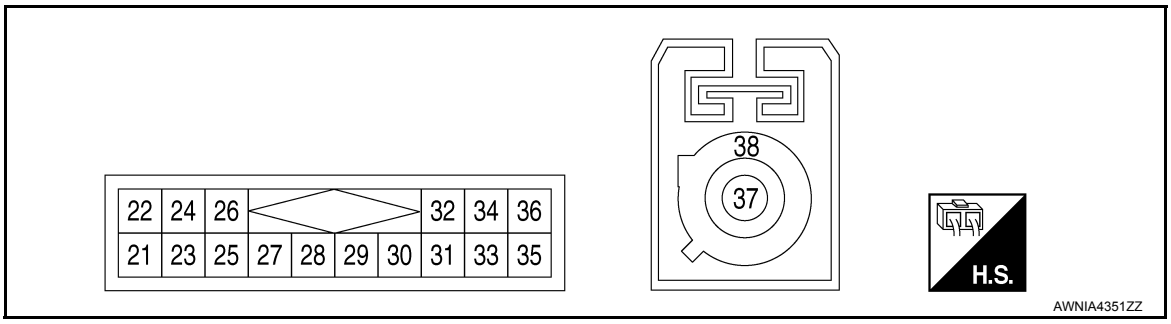
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
13 (W)	8 (B)	Sound signal subwoofer 1	Output	ON	Sound output	 SKIB3609E
14 (G)	9 (W)	Sound signal rear door speaker RH	Output	ON	Sound output	 SKIB3609E
16 (P)	17 (R)	Sound signal center speaker	Output	ON	Sound output	 SKIB3609E
18 (G)	19 (R)	Sound signal front door speaker and front tweeter LH	Output	ON	Sound output	 SKIB3609E
20 (W)	Ground	BOSE amp. ON signal	Input	ON	—	Battery voltage
24 (B)	23 (W)	Pre amp sound signal rear LH	Input	ON	Sound output	 SKIB3609E
26 (B)	25 (W)	Pre amp sound signal rear RH	Input	ON	Sound output	 SKIB3609E

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
28 (P)	15 (R)	Sound signal rear door speaker LH	Output	ON	Sound output	 SKIB3609E
29 (R)	30 (G)	Sound signal tweeter LH	Output	ON	Sound output	 SKIB3609E
31 (W)	32 (P)	Sound signal front door speaker and front tweeter RH	Output	ON	Sound output	 SKIB3609E
33 (B)	34 (W)	Pre amp sound signal front RH	Input	ON	Sound output	 SKIB3609E
35 (B)	36 (W)	Pre amp sound signal front LH	Input	ON	Sound output	 SKIB3609E

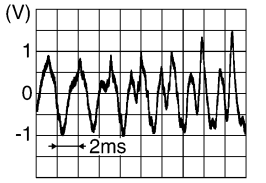
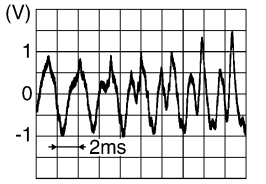
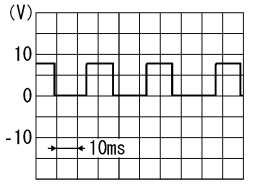
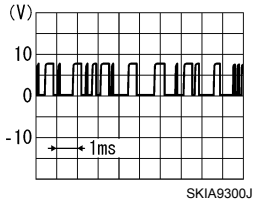
SATELLITE RADIO TUNER

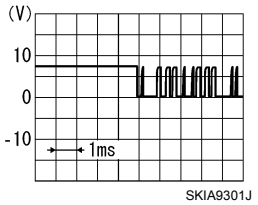
Reference Value

INFOID:0000000012849487



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
22 (B)	21 (W)	Satellite radio sound signal LH	Output	ON	Satellite radio mode selected	 SKIB3609E
24 (G)	23 (R)	Satellite radio sound signal RH	Output	ON	Satellite radio mode selected	 SKIB3609E
25 (Shield)	—	Satellite radio sound signal shield	—	—	—	—
26 (Shield)	—	Satellite control signal shield	—	—	—	—
28 (W)	Ground	Request signal (SAT→CONT)	Output	ON	Satellite radio mode selected	 SKIA9299J
29 (R)	Ground	Communication signal (SAT→CONT)	Output	ON	Satellite radio mode selected	 SKIA9300J

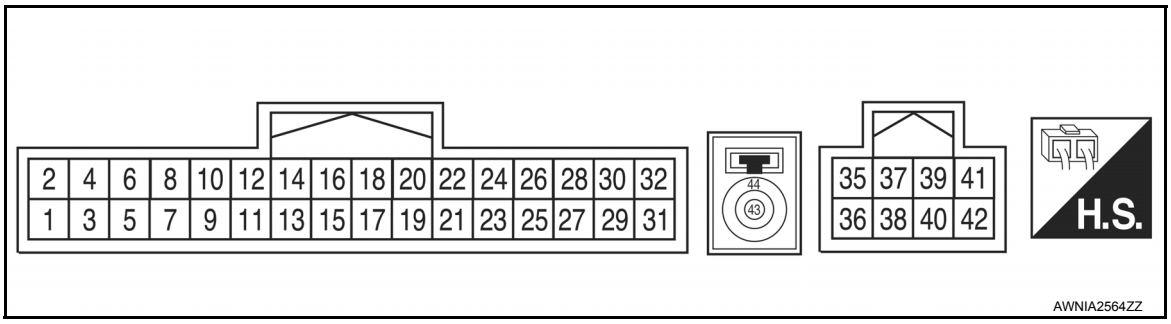
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
30 (B)	Ground	Communication signal (CONT→SAT)	Input	ON	Satellite radio mode selected	 SKIA9301J
32 (SB)	Ground	Battery power supply	Input	OFF	—	Battery voltage
35 (GR)	Ground	Ground	—	ON	—	0V
36 (BG)	Ground	ACC power supply	Input	ACC	—	Battery voltage
37 (B)	—	Satellite antenna	—	—	—	—
38 (Shield)	—	Shield	—	—	—	—

BLUETOOTH® CONTROL UNIT

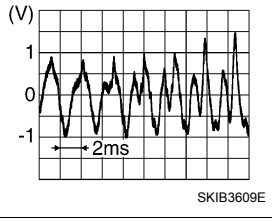
Reference Value

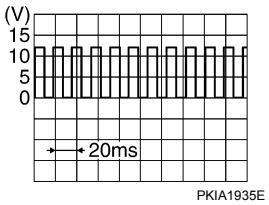
INFOID:0000000012849488

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ output	Ignition switch	Operation	
1 (Y)	Ground	Battery power	Input	–	–	Battery voltage
2 (R)	Ground	ACC power	Input	ACC or ON	–	Battery voltage
3 (P)	Ground	IGN power	Input	ON or START	–	Battery voltage
4 (B)	Ground	Ground	–	ON	–	0V
5 (Shield)	–	Audio out shield	–	–	–	—
7 (B)	8 (Shield)	MIC in signal	Input	–	–	–
9 (W)	10 (B)	Audio out	Output	ACC or ON	Bluetooth® control unit sends audio signal	 SKIB3609E
20 (B)	Ground	Ground	–	ON	–	0V
23 (B)	Ground	Ground	–	ON	–	0V
24 (B)	Ground	Ground	–	ON	–	0V
27 (B)	Ground	Ground	–	ON	–	0V

Terminal (wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ output	Ignition switch	Operation	
28 (V)	Ground	Vehicle speed signal (8-pulse)	Input	ON	When vehicle speed is approx. 40 km/h (25 MPH)	 PKIA1935E
29 (W)	Ground	Microphone power	Output	ON	–	5V
35 (SB)	–	AV communication (H)	–	–	–	—
36 (LG)	–	AV communication (L)	–	–	–	—
43 (B)	–	Bluetooth® antenna	–	–	–	—
44 (Shield)	–	Bluetooth® antenna shield	–	–	–	—

SONAR CONTROL UNIT

Reference Value

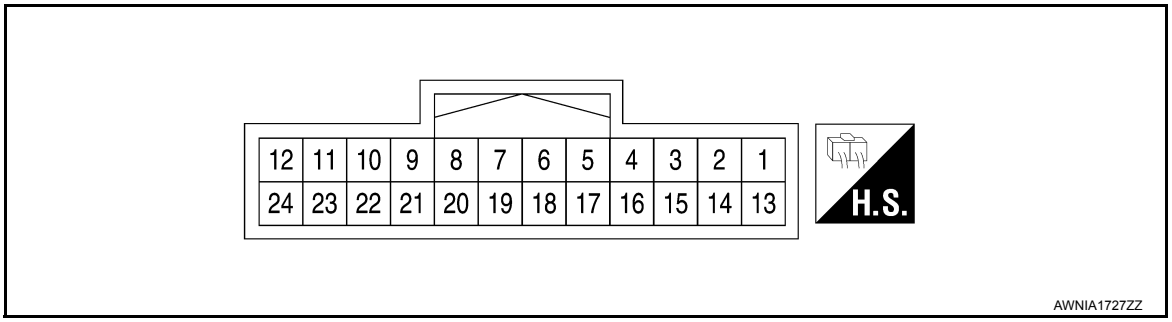
INFOID:0000000013591317

VALUES ON THE DIAGNOSIS TOOL

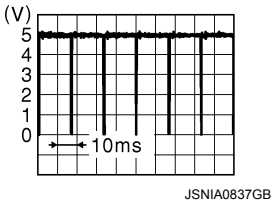
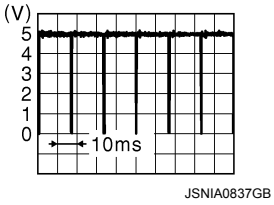
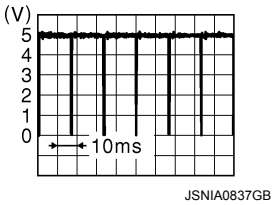
Monitor Item	Condition	Value/Status
CEN[FL]/CEN[F]	Key ON, selector lever in R (reverse) position.	cm/in
CEN[FL]/CEN[F]->COR[FL]		
CEN[FL]->CEN[FR]		
CEN[FR]		
CEN[FR]/CEN[F]->COR[FR]		
CEN[FR]->CEN[FL]		
CEN[RL]/CEN[R]		
CEN[RL]/CEN[R]->COR[RL]		
CEN[RL]->CEN[RR]		
CEN[RR]		
CEN[RR]/CEN[R]->COR[RR]		
CEN[RR]->CEN[RL]		
COR[FL]		
COR[FR]		
COR[RL]		
COR[RR]		
COR[RL]->CEN[RL]/CEN[R]		
COR[RR]->CEN[RR]/CEN[R]		
DETECTION MODE	Key ON.	Mode 1
		Mode 2
LED	When LED is OFF.	Off
	When LED is ON.	On
P N RANGE	When selector lever is in any position other than P (park) or N (neutral).	Off
	When selector lever in P (park) or N (neutral) position.	On
REVERSE RANGE	When transmission range switch is in any position other than R (reverse).	Off
	When transmission range switch is in R (reverse) position.	On
RVRB TIME CEN[FL]	Key ON, selector lever in R (reverse) position.	ms/sec
RVRB TIME CEN[FR]		
RVRB TIME CEN[RL]		
RVRB TIME CEN[RR]		
RVRB TIME COR[FL]		
RVRB TIME COR[FR]		
RVRB TIME COR[RL]		
RVRB TIME COR[RR]		
SENSOR VOLTAGE		5.0 V
SHRT DST FRM FR SENS		cm/in
SHRT DST FRM RR SENS		
SONAR C/U POWER SUPPLY	Key ON.	Battery voltage

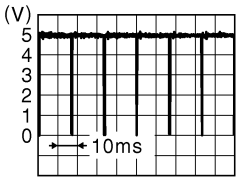
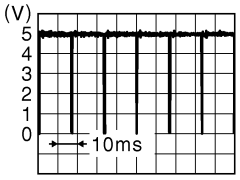
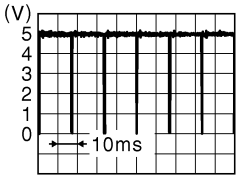
Monitor Item	Condition	Value/Status
SONAR PERMANENT OFF	CAMERA switch ON.	No
	CAMERA switch OFF.	Yes
SONAR TEMPORARY OFF	Key ON, selector lever in R (reverse) position.	No
	When selector lever is in any position other than R (reverse).	Yes
SW OPRT AFTR IGN ON	CAMERA switch OFF after Key ON.	No
	CAMERA switch ON after Key ON.	Yes
TRAILER CONNECT	No trailer connected to trailer hitch.	N CON
	Trailer connected to trailer hitch.	CON
VEHICLE SPEED	While driving, equivalent to speedometer reading	mph, km/h

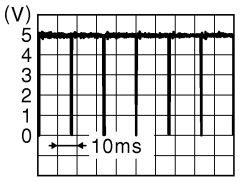
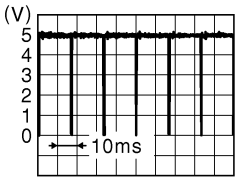
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (B)	13 (B)	Inner sensor signal front RH	Input	ON	CAMERA mode or Selector lever R (reverse) position	
2 (B)	13 (B)	Inner sensor signal front LH	Input	ON	CAMERA mode or Selector lever R (reverse) position	
3 (R)	13 (B)	Outer sensor signal front LH	Input	ON	CAMERA mode or Selector lever R (reverse) position	

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
4 (R)	13 (B)	Outer sensor signal front RH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
5 (B)	—	V-CAN (H)	Input/ Output	—	—	—
6 (W)	—	V-CAN (L)	Input/ Output	—	—	—
9 (B)	14 (B)	Inner sensor signal rear RH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
10 (B)	14 (B)	Outer sensor signal rear RH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
12 (LG)	Ground	Ignition signal	Input	ON	—	Battery voltage
15 (GR)	Ground	Ground	—	ON	—	0 V
16 (LG)	Ground	Sonar system OFF switch ON/OFF signal	Output	ON	Sonar system OFF switchON	0 V
					Sonar system OFF switchOFF	Battery voltage
17 (GR)	Ground	Sonar system OFF indica-torsignal	Output	ON	Sonar system OFF switchON	Battery voltage
					Sonar system OFF switchOFF	0 V
19 (BR)	20 (LG)	Buzzer	Input	ON	CAMERA mode or Selector lever R (reverse) position	Battery voltage

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
21 (B)	14 (B)	Inner sensor signal rear LH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
22 (W)	14 (B)	Outer sensor signal rear LH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB

DTC Index

INFOID:0000000013591318

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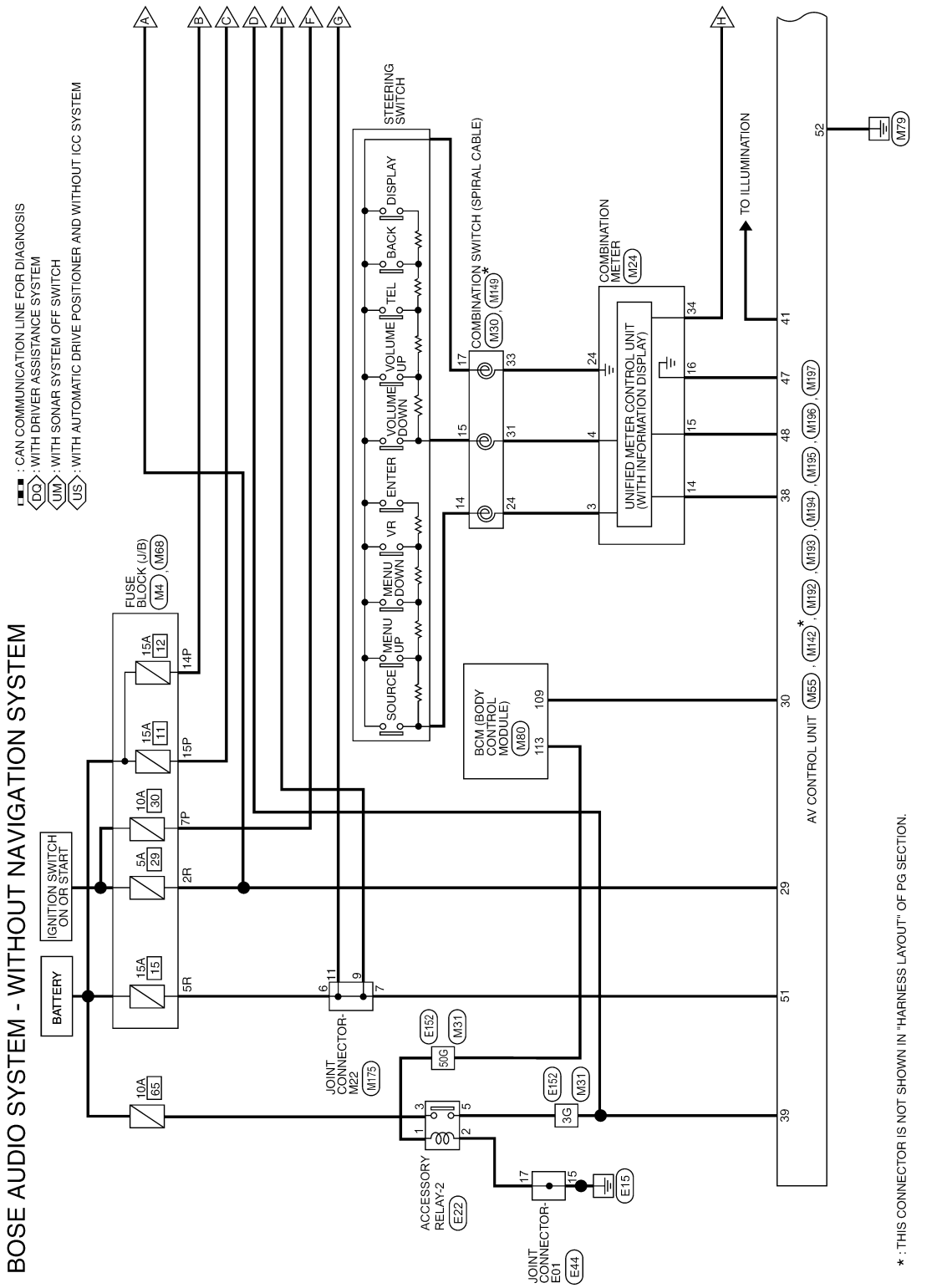
U1010: CONTROL UNIT (CAN)	AV-242, "SONAR CONTROL UNIT : DTC Logic"
B2720: REAR LEFT SIDE EXTERNAL SENSOR	AV-260, "DTC Logic"
B2721: REAR LEFT SIDE INTERNAL SENSOR	AV-261, "DTC Logic"
B2722: REAR RIGHT SIDE INTERNAL SENSOR	AV-262, "DTC Logic"
B2723: REAR RIGHT SIDE EXTERNAL SENSOR	AV-263, "DTC Logic"
B2724: ECU	AV-264, "DTC Logic"
B2725: REAR BUZZER	AV-265, "DTC Logic"
B2729: FRONT LEFT SIDE EXTERNAL SENSOR	AV-267, "DTC Logic"
B272A: FRONT LEFT SIDE INTERNAL SENSOR	AV-268, "DTC Logic"
B272B: FRONT RIGHT SIDE INTERNAL SENSOR	AV-269, "DTC Logic"
B272C: FRONT RIGHT SIDE EXTERNAL SENSOR	AV-270, "DTC Logic"

WIRING DIAGRAM

BOSE AUDIO WITHOUT NAVIGATION

Wiring Diagram

INFOID:0000000012849489



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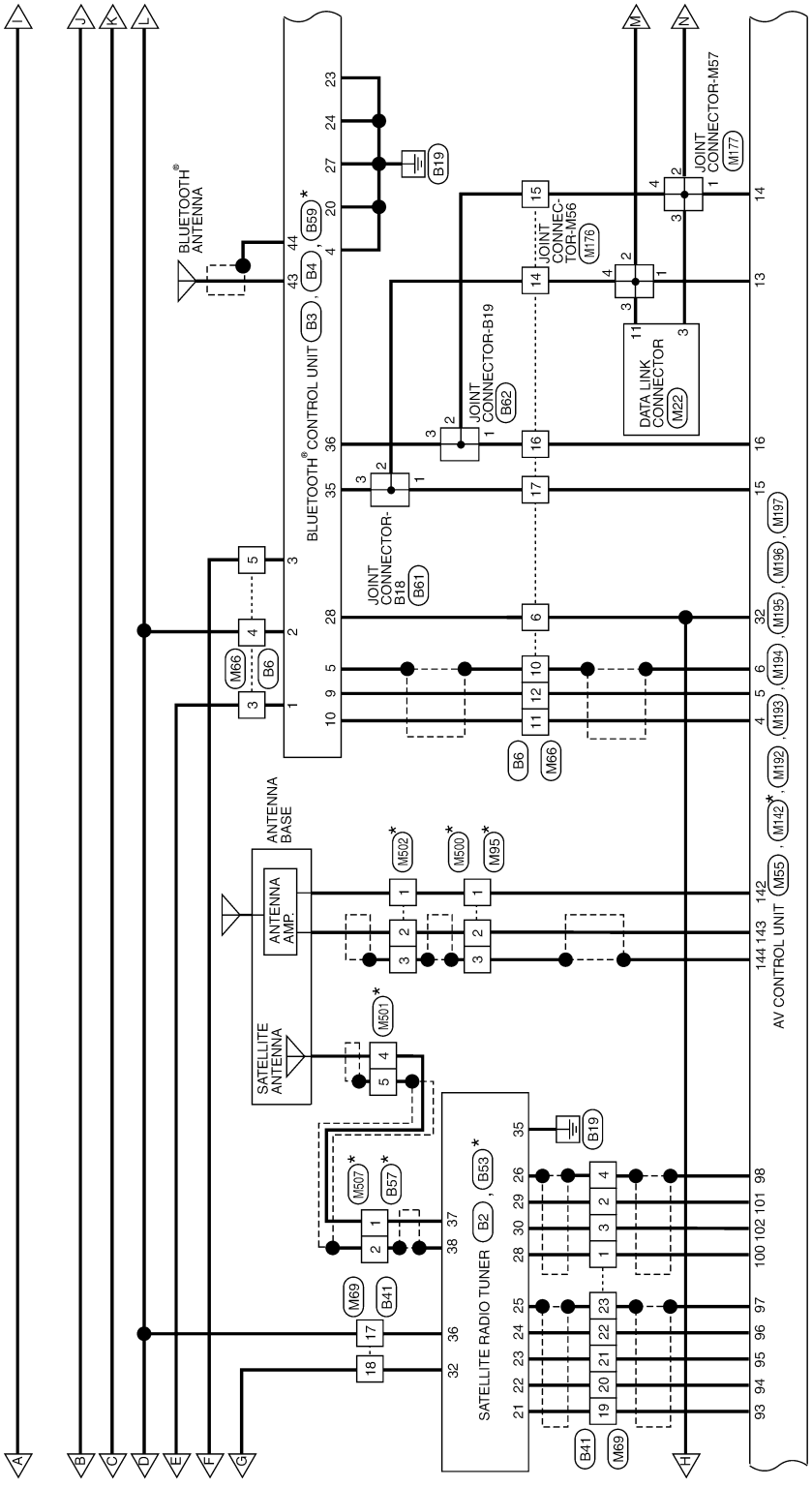
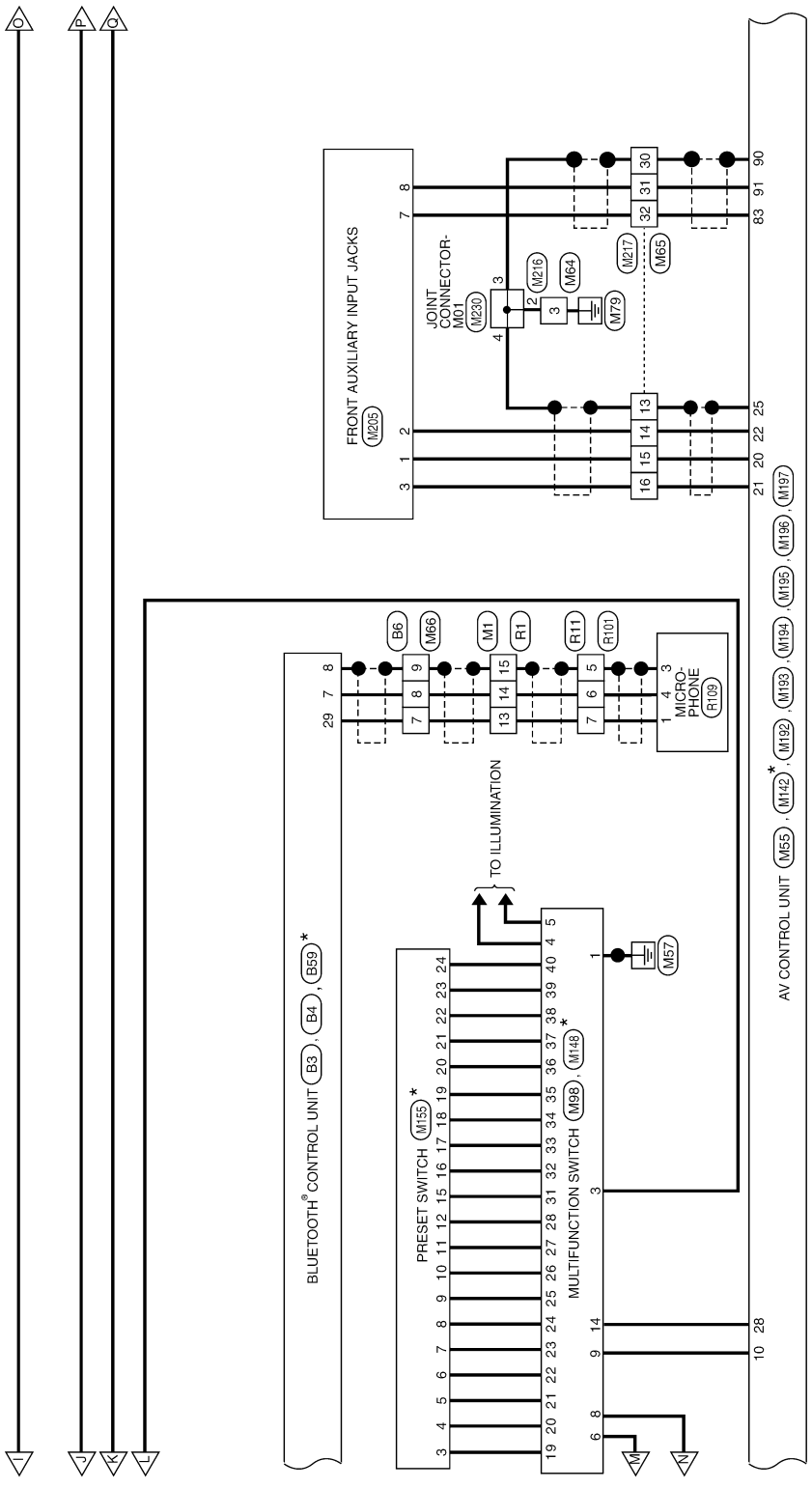

BLUETOOTH® ANTENNA
BLUETOOTH® CONTROL UNIT
JOINT CONNECTOR-B19
JOINT CONNECTOR-B18
JOINT CONNECTOR-M57
JOINT CONNEC-TOR-M56
DATA LINK CONNECTOR
ANTENNA BASE
ANTENNA AMP.
SATELLITE ANTENNA
SATELLITE RADIO TUNER
AV CONTROL UNIT
ABNWA3128GB



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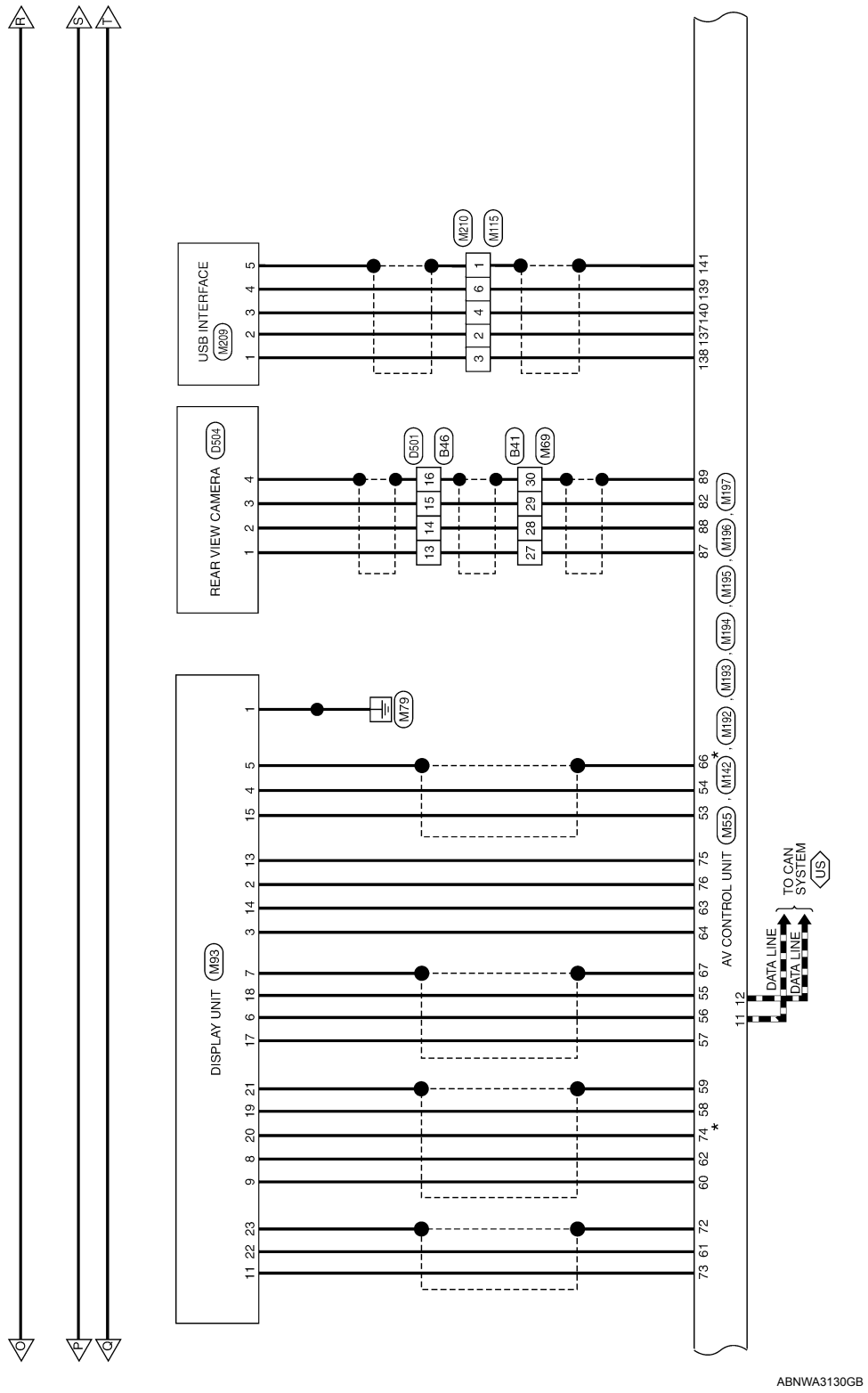
E
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USB INTERFACE
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M210
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DATA LINE
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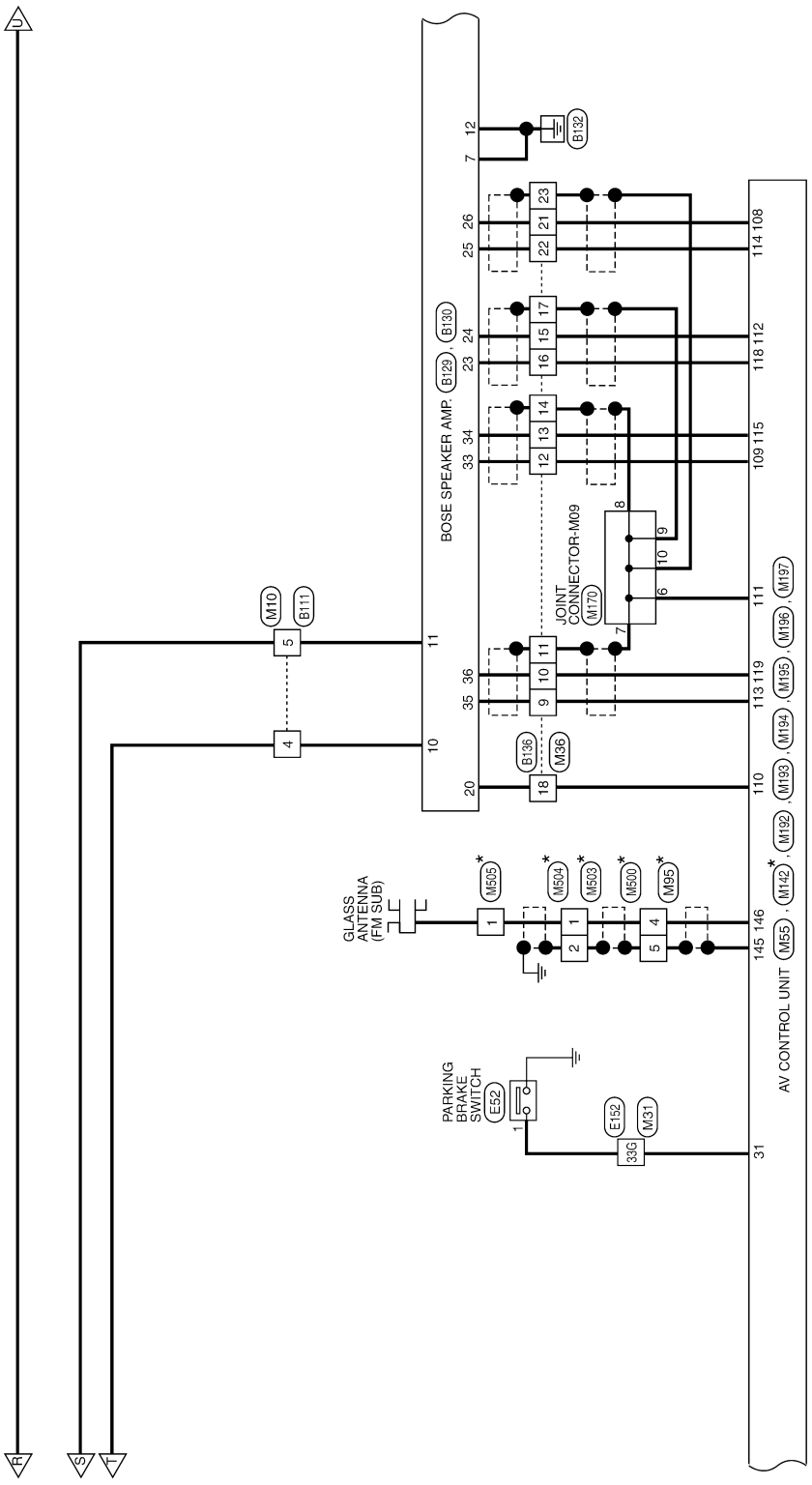

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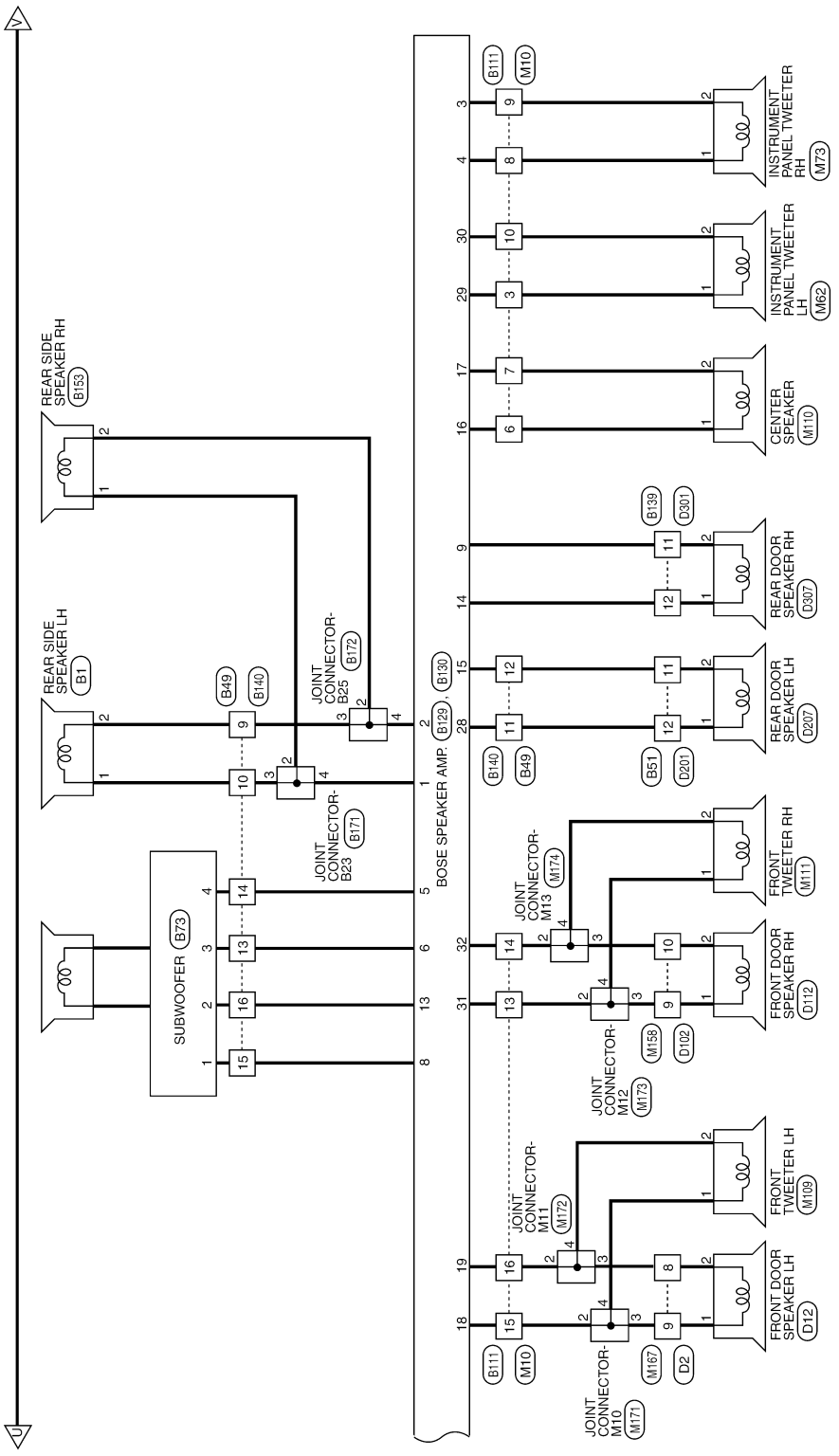
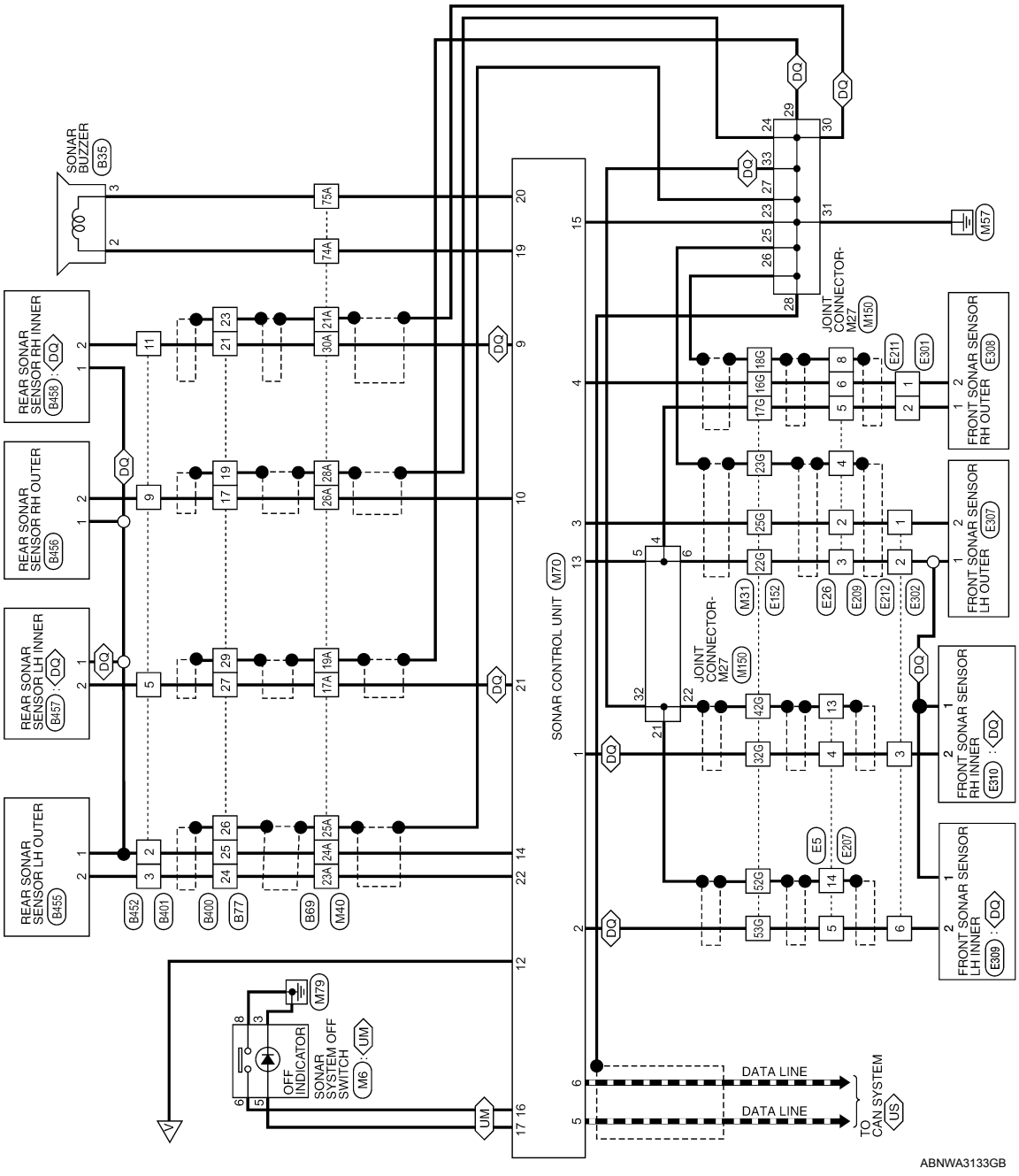

REAR SIDE SPEAKER RH B153
REAR SIDE SPEAKER LH B1
SUBWOOFER B73
JOINT CONNECTOR-B23 B171
JOINT CONNECTOR-B25 B172
BOSE SPEAKER AMP. B129, B130
JOINT CONNECTOR-M13 M174
JOINT CONNECTOR-M12 M173
JOINT CONNECTOR-M11 M172
JOINT CONNECTOR-M10 M171
INSTRUMENT PANEL TWEETER RH M73
INSTRUMENT PANEL TWEETER LH M62
CENTER SPEAKER M110
REAR DOOR SPEAKER RH D307
REAR DOOR SPEAKER LH D207
FRONT TWEETER RH M111
FRONT TWEETER LH M109
FRONT DOOR SPEAKER RH D112
FRONT DOOR SPEAKER LH D12
ABNWA3132GB


SONAR BUZZER B35
REAR SONAR SENSOR RH INNER B458
REAR SONAR SENSOR RH OUTER B456
REAR SONAR SENSOR LH INNER B457
REAR SONAR SENSOR LH OUTER B455
SONAR CONTROL UNIT M70
JOINT CONNECTOR-M27 M150
FRONT SONAR SENSOR RH OUTER E308
FRONT SONAR SENSOR RH INNER E310
FRONT SONAR SENSOR LH OUTER E307
FRONT SONAR SENSOR LH INNER E309
SONAR SYSTEM OFF SWITCH M6
OFF INDICATOR
DATA LINE
DATA LINE
TO CAN SYSTEM
DQ
UM
US
ABNWA3133GB

BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

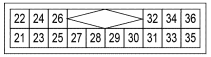
Connector No.	B1
Connector Name	REAR SIDE SPEAKER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	RR SUR SP LH+
2	G	RR SUR SP RH-

Connector No.	B2
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16FW
Connector Color	WHITE

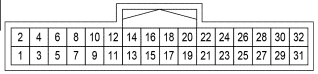
H.S.



Terminal No.	Color of Wire	Signal Name
21	W	SAT LCH (-)
22	B	SAT LCH (+)
23	R	SAT RCH (-)
24	G	SAT RCH (+)
25	SHIELD	EARTH (SIG)
26	SHIELD	DATA EARTH
27	–	–
28	W	REQ1 (SAT-COMBI)
29	R	TXD (SAT-COMBI)
30	B	RXD (COMBI-SAT)
31	–	–
32	SB	BAT
33	–	–
34	–	–
35	GR	EARTH
36	BG	ACC

Connector No.	B3
Connector Name	BLUETOOTH® CONTROL UNIT
Connector Type	TH32FW-NH
Connector Color	WHITE

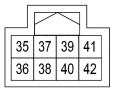
H.S.



Terminal No.	Color of Wire	Signal Name
1	Y	B+
2	R	ACC
3	P	IGN
4	B	GND
5	SHIELD	AUDIO SHIELD
6	–	–
7	B	MIC IN +
8	SHIELD	MIC IN - (GND)
9	W	AUDIO OUT +
10	B	AUDIO OUT -
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	–	–
19	–	–
20	B	CONT 1
21	–	–
22	–	–
23	B	CONT 4
24	B	CONT 5
25	–	–
26	–	–
27	B	CONT 6
28	V	SPEED
29	W	MIC POWER
30	–	–
31	–	–
32	–	–

Connector No.	B4
Connector Name	BLUETOOTH® CONTROL UNIT
Connector Type	TH08FW-NH
Connector Color	WHITE

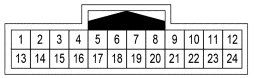
H.S.



Terminal No.	Color of Wire	Signal Name
35	SB	CAN H
36	LG	CAN L
37	–	–
38	–	–
39	–	–
40	–	–
41	–	–
42	–	–

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

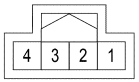
H.S.



Terminal No.	Color of Wire	Signal Name
1	P	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	Y	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
3	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
4	R	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
4	SHIELD	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
5	P	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	W	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	V	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	V	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	W	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	G	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
9	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
10	SHIELD	TO MAIN HARNESS
11	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
11	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
12	W	TO MAIN HARNESS
13	SB	TO MAIN HARNESS
14	SB	TO MAIN HARNESS
15	LG	TO MAIN HARNESS
16	LG	TO MAIN HARNESS
17	SB	TO MAIN HARNESS
18	P	TO MAIN HARNESS
19	BG	TO MAIN HARNESS
20	W	TO MAIN HARNESS
21	R	TO MAIN HARNESS
22	B	TO MAIN HARNESS
23	SHIELD	TO MAIN HARNESS
24	–	TO MAIN HARNESS

Connector No.	B35
Connector Name	SONAR BUZZER
Connector Type	TH04FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	P	SOUNDER+
3	V	SOUNDER-
4	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS - (WITHOUT NAVI)
1	R	TO MAIN HARNESS - (WITH NAVI)
2	R	TO MAIN HARNESS - (WITHOUT NAVI)
2	W	TO MAIN HARNESS - (WITH NAVI)
3	B	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	R	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	BG	TO MAIN HARNESS - (WITHOUT NAVI)
17	V	TO MAIN HARNESS - (WITH NAVI)
18	SB	TO MAIN HARNESS - (WITHOUT NAVI)
18	W	TO MAIN HARNESS - (WITH NAVI)
19	W	TO MAIN HARNESS - (WITHOUT NAVI)
19	B	TO MAIN HARNESS - (WITH NAVI)
20	B	TO MAIN HARNESS - (WITHOUT NAVI)
20	W	TO MAIN HARNESS - (WITH NAVI)
21	R	TO MAIN HARNESS - (WITHOUT NAVI)
21	SHIELD	TO MAIN HARNESS - (WITH NAVI)
22	G	TO MAIN HARNESS - (WITHOUT NAVI)
22	W	TO MAIN HARNESS - (WITH NAVI)
23	SHIELD	TO MAIN HARNESS - (WITHOUT NAVI)
23	R	TO MAIN HARNESS - (WITH NAVI)
24	SHIELD	TO MAIN HARNESS
25	B	TO MAIN HARNESS
26	G	TO MAIN HARNESS
27	W	TO MAIN HARNESS - (WITH NAVI)
27	R	TO MAIN HARNESS - (WITHOUT NAVI)
28	R	TO MAIN HARNESS - (WITH NAVI)
28	B	TO MAIN HARNESS - (WITHOUT NAVI)
29	G	TO MAIN HARNESS - (WITH NAVI)
29	W	TO MAIN HARNESS - (WITHOUT NAVI)
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	V	TO BACK DOOR LH HARNESS
2	Y	TO BACK DOOR LH HARNESS
3	BR	TO BACK DOOR LH HARNESS
4	SB	TO BACK DOOR LH HARNESS
5	LG	TO BACK DOOR LH HARNESS
6	L	TO BACK DOOR LH HARNESS
7	LG	TO BACK DOOR LH HARNESS
8	BR	TO BACK DOOR LH HARNESS
9	W	TO BACK DOOR LH HARNESS
10	R	TO BACK DOOR LH HARNESS
11	G	TO BACK DOOR LH HARNESS
12	W	TO BACK DOOR LH HARNESS
13	W	TO BACK DOOR LH HARNESS - (WITH NAVI)
13	R	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
14	R	TO BACK DOOR LH HARNESS - (WITH NAVI)
14	B	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
15	G	TO BACK DOOR LH HARNESS - (WITH NAVI)
15	W	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
16	SHIELD	TO BACK DOOR LH HARNESS
17	B	TO BACK DOOR LH HARNESS
18	–	TO BACK DOOR LH HARNESS
19	W	TO BACK DOOR LH HARNESS
20	W	TO BACK DOOR LH HARNESS
21	G	TO BACK DOOR LH HARNESS
22	BR	TO BACK DOOR LH HARNESS
23	GR	TO BACK DOOR LH HARNESS
24	G	TO BACK DOOR LH HARNESS

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	L	TO BODY HARNESS RH
6	BR	TO BODY HARNESS RH
7	Y	TO BODY HARNESS RH
8	–	TO BODY HARNESS RH
9	G	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	P	TO BODY HARNESS RH
12	R	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	R	TO BODY HARNESS RH
15	B	TO BODY HARNESS RH
16	W	TO BODY HARNESS RH

Connector No.	B51
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO REAR DOOR LH HARNESS
2	BR	TO REAR DOOR LH HARNESS
3	B	TO REAR DOOR LH HARNESS
4	R	TO REAR DOOR LH HARNESS
5	–	TO REAR DOOR LH HARNESS
6	–	TO REAR DOOR LH HARNESS
7	–	TO REAR DOOR LH HARNESS
8	Y	TO REAR DOOR LH HARNESS
9	–	TO REAR DOOR LH HARNESS
10	–	TO REAR DOOR LH HARNESS
11	R	TO REAR DOOR LH HARNESS
12	P	TO REAR DOOR LH HARNESS

Connector No.	B53
Connector Name	SATELLITE ANTENNA
Connector Type	FAKRA CODING C
Connector Color	PINK

H.S.

Terminal No.	Color of Wire	Signal Name
37	B	SAT ANT
38	SHIELD	SHIELD

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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	B57
Connector Name	WIRE TO WIRE
Connector Type	CT16C-1S-HU (B)
Connector Color	GREEN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	B59
Connector Name	BLUETOOTH® CONTROL UNIT
Connector Type	FAKRA CODING C
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
43	B	BT ANTENNA
44	SHIELD	BT SHIELD

Connector No.	B61
Connector Name	JOINT CONNECTOR-B18
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	M CAN-H
2	SB	M CAN-H
3	SB	M CAN-H
4	SB	M CAN-H

Connector No.	B62
Connector Name	JOINT CONNECTOR-B19
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	M CAN-L
2	LG	M CAN-L
3	LG	M CAN-L
4	-	-

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	-	TO MAIN HARNESS
2A	Y	TO MAIN HARNESS
3A	Y	TO MAIN HARNESS
4A	G	TO MAIN HARNESS

3	SB	M CAN-H
4	-	-

5A	-	TO MAIN HARNESS
6A	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	R	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	BR	TO MAIN HARNESS
8A	G	TO MAIN HARNESS
9A	P	TO MAIN HARNESS
10A	-	TO MAIN HARNESS
11A	W	TO MAIN HARNESS
12A	G	TO MAIN HARNESS
13A	-	TO MAIN HARNESS
14A	R	TO MAIN HARNESS
15A	G	TO MAIN HARNESS
16A	W	TO MAIN HARNESS
17A	B	TO MAIN HARNESS
18A	B	TO MAIN HARNESS
19A	SHIELD	TO MAIN HARNESS
20A	W	TO MAIN HARNESS
21A	SHIELD	TO MAIN HARNESS
22A	-	TO MAIN HARNESS
23A	W	TO MAIN HARNESS
24A	B	TO MAIN HARNESS
25A	SHIELD	TO MAIN HARNESS
26A	B	TO MAIN HARNESS
27A	B	TO MAIN HARNESS
28A	SHIELD	TO MAIN HARNESS
29A	R	TO MAIN HARNESS
30A	B	TO MAIN HARNESS
31A	BR	TO MAIN HARNESS
32A	-	TO MAIN HARNESS
33A	W	TO MAIN HARNESS
34A	B	TO MAIN HARNESS
35A	SHIELD	TO MAIN HARNESS
36A	-	TO MAIN HARNESS
37A	LG	TO MAIN HARNESS
38A	V	TO MAIN HARNESS
39A	SB	TO MAIN HARNESS
40A	BR	TO MAIN HARNESS
41A	Y	TO MAIN HARNESS
42A	-	TO MAIN HARNESS
43A	-	TO MAIN HARNESS
44A	V	TO MAIN HARNESS
45A	G	TO MAIN HARNESS
46A	V	TO MAIN HARNESS
47A	L	TO MAIN HARNESS
48A	SB	TO MAIN HARNESS
49A	G	TO MAIN HARNESS
50A	W	TO MAIN HARNESS
51A	-	TO MAIN HARNESS
52A	-	TO MAIN HARNESS
53A	R	TO MAIN HARNESS
54A	SB	TO MAIN HARNESS
55A	LG	TO MAIN HARNESS

56A	Y	TO MAIN HARNESS
57A	SB	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
57A	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
58A	BR	TO MAIN HARNESS
59A	BR	TO MAIN HARNESS
60A	L	TO MAIN HARNESS
61A	Y	TO MAIN HARNESS
62A	-	TO MAIN HARNESS
63A	P	TO MAIN HARNESS
64A	R	TO MAIN HARNESS
65A	SB	TO MAIN HARNESS
66A	L	TO MAIN HARNESS
67A	LG	TO MAIN HARNESS
68A	P	TO MAIN HARNESS
69A	W	TO MAIN HARNESS
70A	G	TO MAIN HARNESS
71A	BR	TO MAIN HARNESS
72A	-	TO MAIN HARNESS
73A	Y	TO MAIN HARNESS
74A	P	TO MAIN HARNESS
75A	V	TO MAIN HARNESS
76A	R	TO MAIN HARNESS
77A	Y	TO MAIN HARNESS
78A	LG	TO MAIN HARNESS
79A	BR	TO MAIN HARNESS
80A	Y	TO MAIN HARNESS
81A	L	TO MAIN HARNESS
82A	BG	TO MAIN HARNESS
83A	Y	TO MAIN HARNESS
84A	LG	TO MAIN HARNESS
85A	SHIELD	TO MAIN HARNESS
86A	LG	TO MAIN HARNESS
87A	SB	TO MAIN HARNESS
88A	BG	TO MAIN HARNESS
89A	L	TO MAIN HARNESS
90A	P	TO MAIN HARNESS
91A	L	TO MAIN HARNESS
92A	LG	TO MAIN HARNESS
93A	B	TO MAIN HARNESS
94A	-	TO MAIN HARNESS
95A	-	TO MAIN HARNESS
96A	-	TO MAIN HARNESS
97A	BR	TO MAIN HARNESS
98A	L	TO MAIN HARNESS
99A	-	TO MAIN HARNESS
100A	-	TO MAIN HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	B73
Connector Name	SUBWOOFER
Connector Type	RS04FGY-PR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	BASS BOX2+
2	W	BASS BOX1+
3	G	BASS BOX2-
4	R	BASS BOX1-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 HARNESS
2	–	TO BODY NO. 3 HARNESS
3	–	TO BODY NO. 3 HARNESS
4	G	TO BODY NO. 3 HARNESS
5	W	TO BODY NO. 3 HARNESS
6	R	TO BODY NO. 3 HARNESS
7	W	TO BODY NO. 3 HARNESS
8	B	TO BODY NO. 3 HARNESS
9	W	TO BODY NO. 3 HARNESS
10	G	TO BODY NO. 3 HARNESS
11	–	TO BODY NO. 3 HARNESS
12	L	TO BODY NO. 3 HARNESS
13	Y	TO BODY NO. 3 HARNESS
14	–	TO BODY NO. 3 HARNESS
15	G	TO BODY NO. 3 HARNESS
16	–	TO BODY NO. 3 HARNESS
17	B	TO BODY NO. 3 HARNESS
18	B	TO BODY NO. 3 HARNESS
19	SHIELD	TO BODY NO. 3 HARNESS
20	R	TO BODY NO. 3 HARNESS
21	B	TO BODY NO. 3 HARNESS
22	W	TO BODY NO. 3 HARNESS
23	SHIELD	TO BODY NO. 3 HARNESS
24	W	TO BODY NO. 3 HARNESS
25	B	TO BODY NO. 3 HARNESS
26	SHIELD	TO BODY NO. 3 HARNESS
27	B	TO BODY NO. 3 HARNESS
28	B	TO BODY NO. 3 HARNESS
29	SHIELD	TO BODY NO. 3 HARNESS
30	LG	TO BODY NO. 3 HARNESS
31	W	TO BODY NO. 3 HARNESS
32	–	TO BODY NO. 3 HARNESS

Connector No.	B111
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	LG	TO MAIN HARNESS
5	Y	TO MAIN HARNESS
6	P	TO MAIN HARNESS
7	R	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	W	TO MAIN HARNESS
10	G	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	W	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
13	G	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
14	P	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
14	W	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
15	G	TO MAIN HARNESS
16	R	TO MAIN HARNESS

Connector No.	B129
Connector Name	BOSE SPEAKER AMP. (WITHOUT SURROUND SOUND SYSTEM)
Connector Type	SGA12FBR-SJA2
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	RR SIDE TWDR LH AND RH+
2	G	RR SIDE TWDR LH AND RH-
3	W	INST TWDR RH-
4	G	INST TWDR RH+
5	R	BASS BOX WFR2+
6	G	BASS BOX WFR2-
7	B	GND
8	B	BASS BOX WFR1-
9	W	RR DR SP RH-
10	LG	BAT
11	Y	BAT
12	B	GND
13	W	BASS BOX WFR1+
14	G	RR DR SP RH+
20	W	AMP ON
21	–	–
22	–	–
23	W	RR LH-IN
24	B	RR LH+IN
25	W	RR RH-IN
26	B	RR RH+IN
27	–	–
28	P	RR DR SP LH+
29	R	INST TWDR LH+
30	G	INST TWDR LH-
31	W	FR DR SP RH+
32	P	FR DR SP RH-
33	B	FR RH+IN
34	W	FR RH-IN
35	B	FR LH+IN
36	W	FR LH-IN
37	–	–

Connector No.	B130
Connector Name	BOSE SPEAKER AMP. (WITHOUT SURROUND SOUND SYSTEM)
Connector Type	SCA19FBR-SGA4
Connector Color	BROWN

H.S.

37	36	35	34	33		32	31	30	29	28
27	26	25	24	23	22	21	20	19	18	17	16	15

Terminal No.	Color of Wire	Signal Name
15	R	RR DR SP LH-
16	P	INST CENTER SP+
17	R	INST CENTER SP-
18	G	FR DR SP LH+
19	R	FR DR SP LH-

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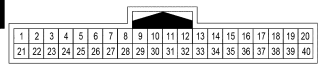
BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	B136
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	W	TO MAIN HARNESS
3	BR	TO MAIN HARNESS
4	G	TO MAIN HARNESS
5	BG	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	W	TO MAIN HARNESS
8	W	TO MAIN HARNESS
9	B	TO MAIN HARNESS
10	W	TO MAIN HARNESS
11	SHIELD	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	SHIELD	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	W	TO MAIN HARNESS
17	SHIELD	TO MAIN HARNESS
18	W	TO MAIN HARNESS
19	LG	TO MAIN HARNESS - (WITHOUT SURROUND SOUND SYSTEM)
19	B	TO MAIN HARNESS - (WITH SURROUND SOUND SYSTEM)
20	SB	TO MAIN HARNESS - (WITHOUT SURROUND SOUND SYSTEM)
20	W	TO MAIN HARNESS - (WITH SURROUND SOUND SYSTEM)
21	B	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	SHIELD	TO MAIN HARNESS
24	B	TO MAIN HARNESS
25	W	TO MAIN HARNESS
26	SHIELD	TO MAIN HARNESS
27	B	TO MAIN HARNESS
28	W	TO MAIN HARNESS
29	SHIELD	TO MAIN HARNESS
30	B	TO MAIN HARNESS
31	W	TO MAIN HARNESS
32	L	TO MAIN HARNESS
33	Y	TO MAIN HARNESS
34	–	TO MAIN HARNESS
35	–	TO MAIN HARNESS
36	–	TO MAIN HARNESS
37	BR	TO MAIN HARNESS
38	–	TO MAIN HARNESS
39	–	TO MAIN HARNESS
40	–	TO MAIN HARNESS

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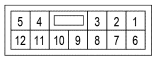
Connector No.	B139
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

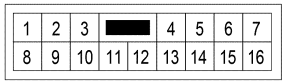
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR RH HARNESS
2	–	TO REAR DOOR RH HARNESS
3	B	TO REAR DOOR RH HARNESS
4	G	TO REAR DOOR RH HARNESS
5	–	TO REAR DOOR RH HARNESS
6	BR	TO REAR DOOR RH HARNESS
7	Y	TO REAR DOOR RH HARNESS
8	Y	TO REAR DOOR RH HARNESS
9	–	TO REAR DOOR RH HARNESS
10	–	TO REAR DOOR RH HARNESS
11	SB	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
11	W	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
12	LG	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
12	G	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO BODY HARNESS
2	W	TO BODY HARNESS
3	B	TO BODY HARNESS
4	L	TO BODY HARNESS
5	BR	TO BODY HARNESS
6	Y	TO BODY HARNESS
7	LG	TO BODY HARNESS
8	–	TO BODY HARNESS
9	G	TO BODY HARNESS
10	W	TO BODY HARNESS
11	P	TO BODY HARNESS
12	R	TO BODY HARNESS
13	G	TO BODY HARNESS
14	R	TO BODY HARNESS
15	B	TO BODY HARNESS
16	W	TO BODY HARNESS

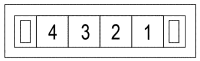
Connector No.	B153
Connector Name	REAR SIDE SPEAKER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	RR SUR SP RH+
2	G	RR SUR SP RH-

Connector No.	B171
Connector Name	JOINT CONNECTOR-B23
Connector Type	TK04FW-J
Connector Color	WHITE

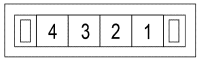
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	RR SIDE TWDR LH AND RH+
3	W	RR SIDE TWDR LH AND RH+
4	W	RR SIDE TWDR LH AND RH+

Connector No.	B172
Connector Name	JOINT CONNECTOR-B25
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	G	RR SIDE TWDR LH AND RH-
3	G	RR SIDE TWDR LH AND RH-
4	G	RR SIDE TWDR LH AND RH-

BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	B400
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS
2	–	TO BODY HARNESS
3	–	TO BODY HARNESS
4	G	TO BODY HARNESS
5	W	TO BODY HARNESS
6	R	TO BODY HARNESS
7	W	TO BODY HARNESS
8	B	TO BODY HARNESS
9	W	TO BODY HARNESS
10	G	TO BODY HARNESS
11	–	TO BODY HARNESS
12	L	TO BODY HARNESS
13	Y	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	B	TO BODY HARNESS
17	B	TO BODY HARNESS
18	B	TO BODY HARNESS
19	SHIELD	TO BODY HARNESS
20	R	TO BODY HARNESS
21	B	TO BODY HARNESS
22	W	TO BODY HARNESS
23	SHIELD	TO BODY HARNESS
24	W	TO BODY HARNESS
25	B	TO BODY HARNESS
26	SHIELD	TO BODY HARNESS
27	B	TO BODY HARNESS
28	B	TO BODY HARNESS
29	SHIELD	TO BODY HARNESS
30	LG	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	RH12MB
Connector Color	BLACK

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 SUB HARNESS
2	B	TO BODY NO. 3 SUB HARNESS
3	W	TO BODY NO. 3 SUB HARNESS
4	B	TO BODY NO. 3 SUB HARNESS
5	B	TO BODY NO. 3 SUB HARNESS
6	–	TO BODY NO. 3 SUB HARNESS
7	–	TO BODY NO. 3 SUB HARNESS
8	B	TO BODY NO. 3 SUB HARNESS
9	B	TO BODY NO. 3 SUB HARNESS
10	W	TO BODY NO. 3 SUB HARNESS
11	B	TO BODY NO. 3 SUB HARNESS
12	R	TO BODY NO. 3 SUB HARNESS

Connector No.	B452
Connector Name	WIRE TO WIRE
Connector Type	RH12FB
Connector Color	BLACK

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 HARNESS
2	P	TO BODY NO. 3 HARNESS
3	G	TO BODY NO. 3 HARNESS
4	L	TO BODY NO. 3 HARNESS
5	Y	TO BODY NO. 3 HARNESS
6	–	TO BODY NO. 3 HARNESS
7	–	TO BODY NO. 3 HARNESS
8	L	TO BODY NO. 3 HARNESS
9	W	TO BODY NO. 3 HARNESS
10	P	TO BODY NO. 3 HARNESS
11	G	TO BODY NO. 3 HARNESS
12	R	TO BODY NO. 3 HARNESS

Connector No.	B455
Connector Name	REAR SONAR SENSOR LH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

3	2	1

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	G	ROL SENSOR SIGNAL
3	–	–

Connector No.	B456
Connector Name	REAR SONAR SENSOR RH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

3	2	1

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	W	ROR SENSOR SIGNAL
3	–	–

12	R	TO BODY NO. 3 HARNESS

Connector No.	B457
Connector Name	REAR SONAR SENSOR LH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

3	2	1

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	Y	RIL SENSOR SIGNAL
3	–	–

Connector No.	B458
Connector Name	REAR SONAR SENSOR RH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

3	2	1

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	G	RIR SENSOR SIGNAL
3	–	–

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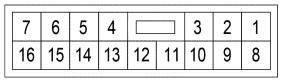
BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

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

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	Y	TO MAIN HARNESS
3	G/B	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	Y	TO MAIN HARNESS
8	W	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	V	TO MAIN HARNESS
11	BR	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	L	TO MAIN HARNESS
14	SHIELD	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	W	TO MAIN HARNESS

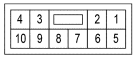
Connector No.	D12
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS02FW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	FR DOOR LH+ OUT
2	W	FR DOOR LH- OUT

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	L	TO MAIN HARNESS
5	BR	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	LG	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	W	TO MAIN HARNESS

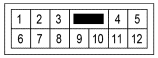
Connector No.	D112
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS02FW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	FR DOOR RH+ OUT
2	W	FR DOOR RH- OUT

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	BR	TO BODY HARNESS
2	L	TO BODY HARNESS
3	B	TO BODY HARNESS
4	SB	TO BODY HARNESS
5	–	TO BODY HARNESS
6	–	TO BODY HARNESS
7	–	TO BODY HARNESS
8	V	TO BODY HARNESS
9	R/W	TO BODY HARNESS
10	R/G	TO BODY HARNESS
11	Y	TO BODY HARNESS
12	LG	TO BODY HARNESS

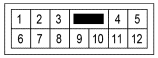
Connector No.	D207
Connector Name	REAR DOOR SPEAKER LH (WITH BOSE AUDIO SYSTEM)
Connector Type	NS02FBR-CS
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	RR DR SP LH+
2	Y	RR DR SP LH-

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W/V	TO BODY HARNESS RH
2	–	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	V	TO BODY HARNESS RH
5	–	TO BODY HARNESS RH
6	Y	TO BODY HARNESS RH
7	LG	TO BODY HARNESS RH
8	SB	TO BODY HARNESS RH
9	R/W	TO BODY HARNESS RH
10	R/G	TO BODY HARNESS RH
11	G	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH

Connector No.	D307
Connector Name	REAR DOOR SPEAKER RH (WITH BOSE AUDIO SYSTEM)
Connector Type	NS02FBR-CS
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	RR DR SP RH+
2	G	RR DR SP RH-

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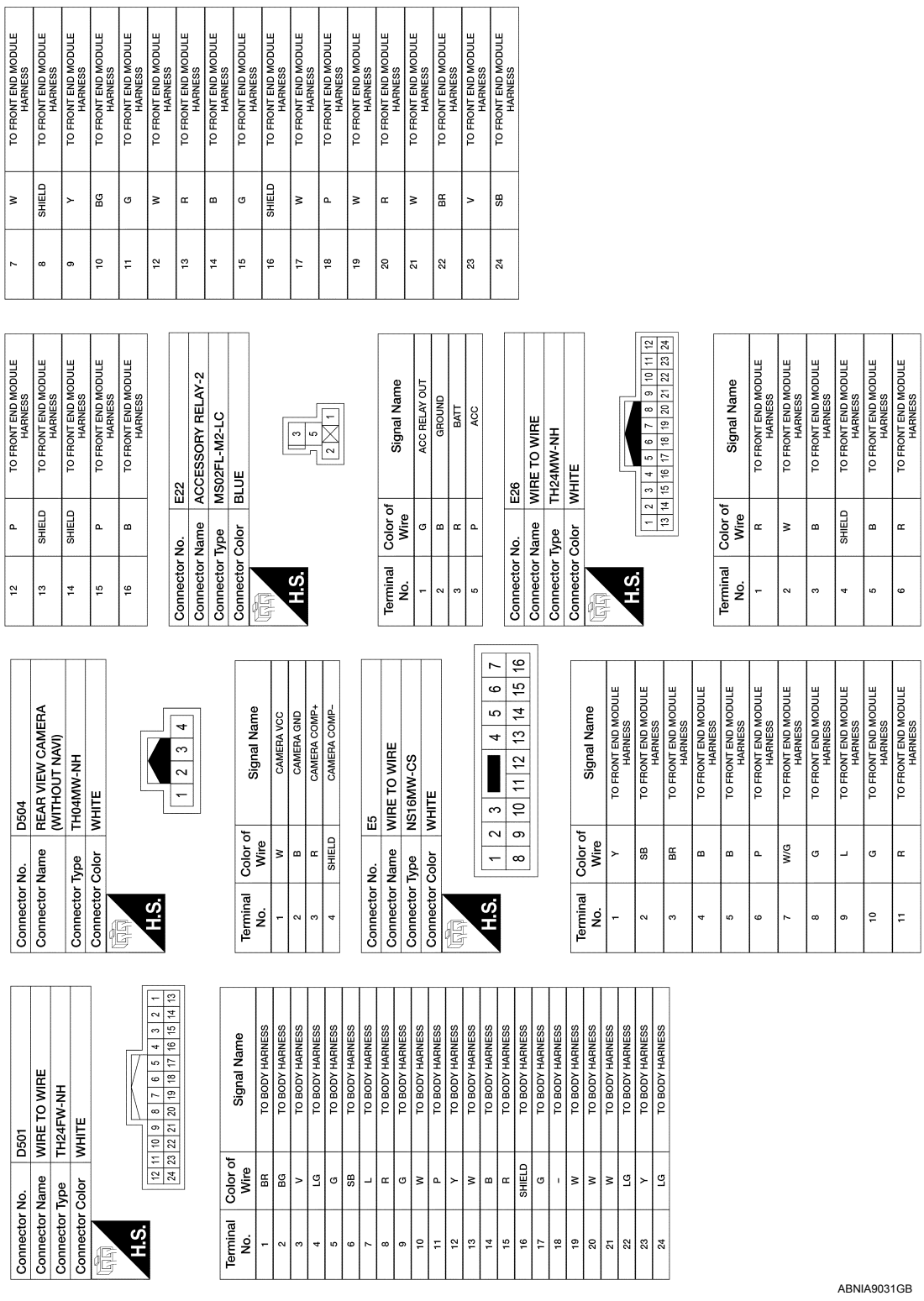
BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM



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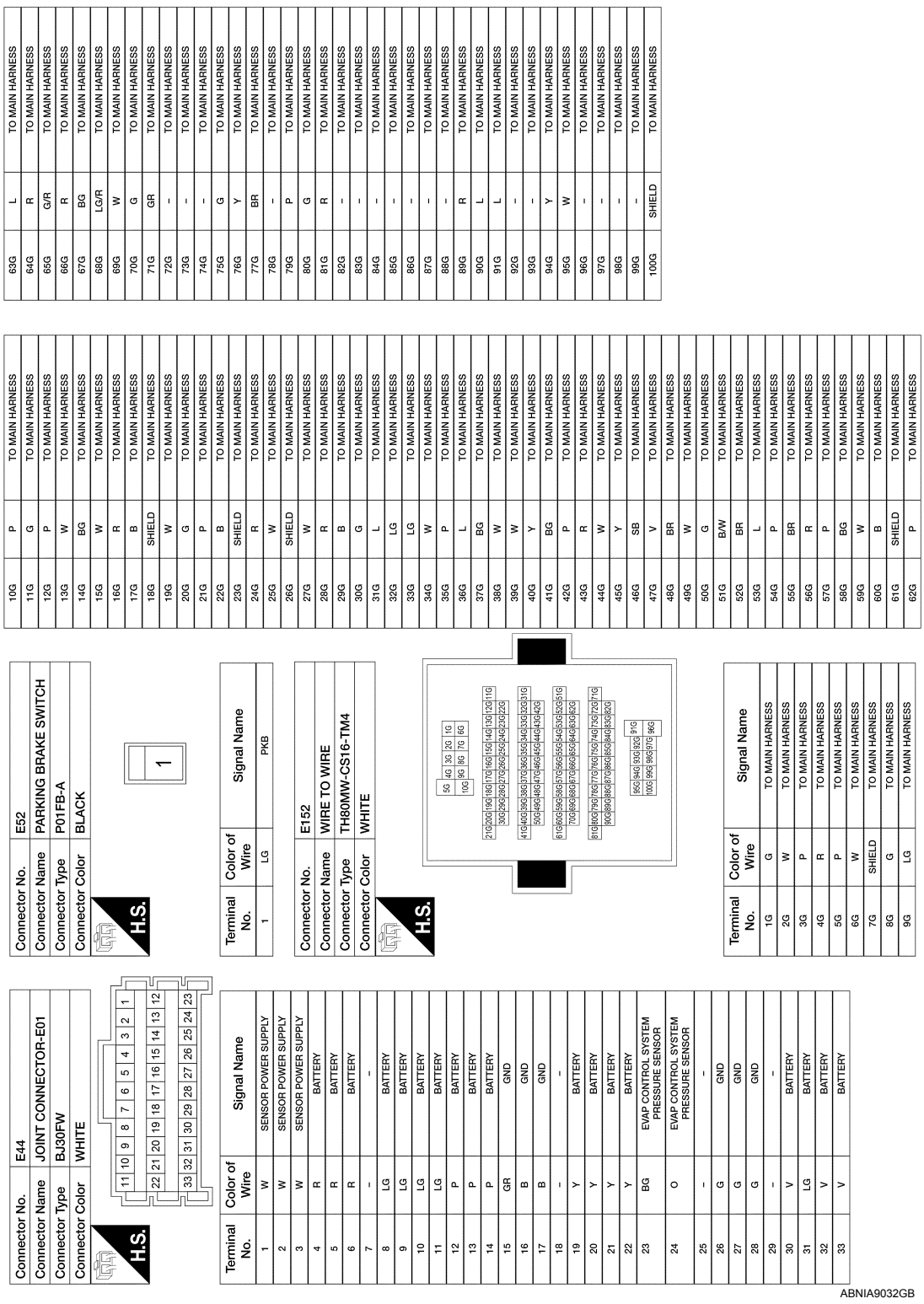
BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM



BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	E207
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	P	TO ENGINE ROOM HARNESS
2	P	TO ENGINE ROOM HARNESS
3	R	TO ENGINE ROOM HARNESS
4	B	TO ENGINE ROOM HARNESS
5	G	TO ENGINE ROOM HARNESS
6	–	TO ENGINE ROOM HARNESS
7	–	TO ENGINE ROOM HARNESS
8	G	TO ENGINE ROOM HARNESS
9	R	TO ENGINE ROOM HARNESS
10	G	TO ENGINE ROOM HARNESS
11	P	TO ENGINE ROOM HARNESS
12	R	TO ENGINE ROOM HARNESS
13	SHIELD	TO ENGINE ROOM HARNESS
14	SHIELD	TO ENGINE ROOM HARNESS
15	–	TO ENGINE ROOM HARNESS
16	–	TO ENGINE ROOM HARNESS

8	SHIELD	TO ENGINE ROOM HARNESS
9	Y	TO ENGINE ROOM HARNESS
10	L	TO ENGINE ROOM HARNESS
11	SB	TO ENGINE ROOM HARNESS
12	Y	TO ENGINE ROOM HARNESS
13	R	TO ENGINE ROOM HARNESS
14	B	TO ENGINE ROOM HARNESS
15	G	TO ENGINE ROOM HARNESS
16	SHIELD	TO ENGINE ROOM HARNESS
17	W	TO ENGINE ROOM HARNESS
18	L	TO ENGINE ROOM HARNESS
19	Y	TO ENGINE ROOM HARNESS
20	V	TO ENGINE ROOM HARNESS
21	G	TO ENGINE ROOM HARNESS
22	L	TO ENGINE ROOM HARNESS
23	G	TO ENGINE ROOM HARNESS
24	R	TO ENGINE ROOM HARNESS

Connector No.	E209
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO ENGINE ROOM HARNESS
2	L	TO ENGINE ROOM HARNESS
3	B	TO ENGINE ROOM HARNESS
4	SHIELD	TO ENGINE ROOM HARNESS
5	B	TO ENGINE ROOM HARNESS
6	R	TO ENGINE ROOM HARNESS
7	W	TO ENGINE ROOM HARNESS

Connector No.	E211
Connector Name	WIRE TO WIRE
Connector Type	RS08MGY-PR
Connector Color	GRAY

H.S.

1	2	3	4
5	6	7	8

Terminal No.	Color of Wire	Signal Name
1	R	TO FRONT FOG LAMP SUB HARNESS
2	B	TO FRONT FOG LAMP SUB HARNESS
3	R	TO FRONT FOG LAMP SUB HARNESS
4	W	TO FRONT FOG LAMP SUB HARNESS
5	W	TO FRONT FOG LAMP SUB HARNESS
6	–	TO FRONT FOG LAMP SUB HARNESS
7	B	TO FRONT FOG LAMP SUB HARNESS
8	B	TO FRONT FOG LAMP SUB HARNESS

Connector No.	E212
Connector Name	WIRE TO WIRE
Connector Type	RS08MGY-PR
Connector Color	GRAY

H.S.

1	2	3	4
5	6	7	8

Terminal No.	Color of Wire	Signal Name
1	L	TO FRONT FOG LAMP SUB HARNESS
2	B	TO FRONT FOG LAMP SUB HARNESS
3	B	TO FRONT FOG LAMP SUB HARNESS
4	L	TO FRONT FOG LAMP SUB HARNESS
5	Y	TO FRONT FOG LAMP SUB HARNESS
6	G	TO FRONT FOG LAMP SUB HARNESS
7	B	TO FRONT FOG LAMP SUB HARNESS
8	B	TO FRONT FOG LAMP SUB HARNESS

Connector No.	E301
Connector Name	WIRE TO WIRE
Connector Type	RS08FGY-PR
Connector Color	GRAY

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	G	TO FRONT END MODULE HARNESS
2	P	TO FRONT END MODULE HARNESS
3	LG	TO FRONT END MODULE HARNESS
4	W	TO FRONT END MODULE HARNESS
5	R	TO FRONT END MODULE HARNESS
6	R	TO FRONT END MODULE HARNESS

7	B	TO FRONT END MODULE HARNESS
8	B	TO FRONT END MODULE HARNESS

Connector No.	E302
Connector Name	WIRE TO WIRE
Connector Type	RS08FGY-PR
Connector Color	GRAY

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	G	TO FRONT END MODULE HARNESS
2	P	TO FRONT END MODULE HARNESS
3	W	TO FRONT END MODULE HARNESS
4	W	TO FRONT END MODULE HARNESS
5	R	TO FRONT END MODULE HARNESS
6	W	TO FRONT END MODULE HARNESS
7	B	TO FRONT END MODULE HARNESS
8	B	TO FRONT END MODULE HARNESS

Connector No.	E307
Connector Name	FRONT SONAR SENSOR LH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

3	2	1

Terminal No.	Color of Wire	Signal Name
1	P	FR SENSOR GND
2	G	FOL SENSOR SIGNAL
3	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	E308
Connector Name	FRONT SONAR SENSOR RH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	–
2	G	FOR SENSOR SIGNAL
3	R	FR SENSOR GND

Connector No.	E309
Connector Name	FRONT SONAR SENSOR LH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	GROUND
2	W	SIGNAL
3	–	–

Connector No.	E310
Connector Name	FRONT SONAR SENSOR RH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	GROUND
2	W	SIGNAL
3	–	–

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	TO ROOM LAMP HARNESS
2	LG	TO ROOM LAMP HARNESS
3	R	TO ROOM LAMP HARNESS
4	–	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	LG	TO ROOM LAMP HARNESS
7	L	TO ROOM LAMP HARNESS
8	Y	TO ROOM LAMP HARNESS
9	W	TO ROOM LAMP HARNESS
10	LG	TO ROOM LAMP HARNESS
11	BR	TO ROOM LAMP HARNESS
12	R/G	TO ROOM LAMP HARNESS
13	W	TO ROOM LAMP HARNESS
14	B	TO ROOM LAMP HARNESS
15	SHIELD	TO ROOM LAMP HARNESS
16	R	TO ROOM LAMP HARNESS
17	W	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	G	TO ROOM LAMP HARNESS
20	BR	TO ROOM LAMP HARNESS
21	LG	TO ROOM LAMP HARNESS
22	Y	TO ROOM LAMP HARNESS
23	P	TO ROOM LAMP HARNESS
24	B	TO ROOM LAMP HARNESS

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	LG	IGNITION
3P	G	IGN ELEC RELAY OUT 2
4P	–	–
5P	P	IGNITION
6P	BG	REAR DEFOGGER RELAY OUT
7P	LG	IGNITION
8P	BG	IGNITION
9P	L	BATTERY
10P	BR	IGNITION
11P	–	–
12P	–	–
13P	W	BATTERY
14P	Y	BATTERY
15P	L	BATT
16P	W	BLOWER FAN RELAY OUT

Connector No.	M6
Connector Name	SONAR SYSTEM OFF SWITCH
Connector Type	TH08FGY-NH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name

1	R	ILL+
2	–	–
3	B	GROUND
4	B	ILL-
5	GR	LED OUTPUT
6	LG	DISABLE SW
7	–	–
8	B	GROUND

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Type	NS16FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	G	TO BODY HARNESS RH
4	L	TO BODY HARNESS RH
5	Y	TO BODY HARNESS RH
6	G	TO BODY HARNESS RH
7	W	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	W	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	R	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	W	TO BODY HARNESS RH
15	P	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
15	G	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
16	W	TO BODY HARNESS RH

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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	M22
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	LG	M-CAN-L
4	B	GROUND
5	B	GROUND
6	L	CAN-H
7	R	KLINE
8	LG	IGN SW
9	–	–
10	–	–
11	SB	M-CAN-H
12	P	CAN-L
13	L	CAN-H
14	P	CAN-L
15	–	–
16	BG	POWER

Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	GND1
2	B	GND2
3	P	STRG SW INPUT 1
4	BG	STRG SW INPUT 2
5	P	ACC
6	V	SECURITY
7	R	AIR BAG
8	G	AS BELT
9	Y	DR BUCKLE SW
10	–	–
11	BG	ALTERNATOR (CHARGE)
12	G	PKB
13	–	–
14	G	STRG SW OUTPUT 1
15	W	STRG SW OUTPUT 2
16	B	STRG SW OUTPUT GND
17	–	–
18	–	–
19	–	–
20	–	–
21	BG	IGN
22	W	BAT
23	B	ILLUMI CONT OUT
24	R	STRG SW GND
25	G	BRAKE OIL SW
26	R	FUEL SENSOR GND
27	W	FUEL SENSOR
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	BR	SPEED 2 P/R
34	BG	SPEED 8 P/R
35	–	–
36	–	–
37	–	–
38	P	CAN-L
39	L	CAN-H
40	–	–

Connector No.	M30
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V
Connector Color	GRAY

H.S.

25 24 31 32
33

Terminal No.	Color of Wire	Signal Name
24	P	AUDIO STRG SW REMOTE A
25	W	ASCD
31	BG	AUDIO STRG SW REMOTE B
32	G	ASCDG
33	R	AUDIO STRG SW GND

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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
1G	P	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
2G	W	TO ENGINE ROOM HARNESS
3G	P	TO ENGINE ROOM HARNESS
4G	G	TO ENGINE ROOM HARNESS
5G	P	TO ENGINE ROOM HARNESS
6G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6G	R	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7G	SHIELD	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	BG	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R	TO ENGINE ROOM HARNESS
12G	G	TO ENGINE ROOM HARNESS
13G	G	TO ENGINE ROOM HARNESS
14G	V	TO ENGINE ROOM HARNESS
15G	W	TO ENGINE ROOM HARNESS
16G	R	TO ENGINE ROOM HARNESS
17G	B	TO ENGINE ROOM HARNESS
18G	SHIELD	TO ENGINE ROOM HARNESS
19G	SB	TO ENGINE ROOM HARNESS
20G	LG	TO ENGINE ROOM HARNESS
21G	R	TO ENGINE ROOM HARNESS
22G	B	TO ENGINE ROOM HARNESS
23G	SHIELD	TO ENGINE ROOM HARNESS
24G	W	TO ENGINE ROOM HARNESS
25G	R	TO ENGINE ROOM HARNESS
26G	SHIELD	TO ENGINE ROOM HARNESS
27G	B	TO ENGINE ROOM HARNESS
28G	W	TO ENGINE ROOM HARNESS
29G	G	TO ENGINE ROOM HARNESS
30G	R	TO ENGINE ROOM HARNESS
31G	L	TO ENGINE ROOM HARNESS
32G	G	TO ENGINE ROOM HARNESS
33G	G	TO ENGINE ROOM HARNESS
34G	G	TO ENGINE ROOM HARNESS
35G	P	TO ENGINE ROOM HARNESS
36G	L	TO ENGINE ROOM HARNESS
37G	L	TO ENGINE ROOM HARNESS
38G	W	TO ENGINE ROOM HARNESS
39G	R	TO ENGINE ROOM HARNESS
40G	Y	TO ENGINE ROOM HARNESS
41G	L	TO ENGINE ROOM HARNESS
42G	P	TO ENGINE ROOM HARNESS
43G	W	TO ENGINE ROOM HARNESS
44G	G	TO ENGINE ROOM HARNESS
45G	R	TO ENGINE ROOM HARNESS
46G	Y	TO ENGINE ROOM HARNESS
47G	Y	TO ENGINE ROOM HARNESS
48G	LG	TO ENGINE ROOM HARNESS
49G	P	TO ENGINE ROOM HARNESS
50G	L	TO ENGINE ROOM HARNESS
51G	B/W	TO ENGINE ROOM HARNESS
52G	BR	TO ENGINE ROOM HARNESS
53G	L	TO ENGINE ROOM HARNESS
54G	BG	TO ENGINE ROOM HARNESS
55G	G	TO ENGINE ROOM HARNESS
56G	P	TO ENGINE ROOM HARNESS
57G	P	TO ENGINE ROOM HARNESS
58G	L	TO ENGINE ROOM HARNESS
59G	B	TO ENGINE ROOM HARNESS
60G	W	TO ENGINE ROOM HARNESS
61G	SHIELD	TO ENGINE ROOM HARNESS
62G	G	TO ENGINE ROOM HARNESS
63G	P	TO ENGINE ROOM HARNESS
64G	W	TO ENGINE ROOM HARNESS
65G	G/R	TO ENGINE ROOM HARNESS
66G	R	TO ENGINE ROOM HARNESS
67G	W	TO ENGINE ROOM HARNESS
68G	LG/R	TO ENGINE ROOM HARNESS
69G	P	TO ENGINE ROOM HARNESS
70G	BG	TO ENGINE ROOM HARNESS
71G	GR	TO ENGINE ROOM HARNESS
72G	-	TO ENGINE ROOM HARNESS
73G	-	TO ENGINE ROOM HARNESS
74G	-	TO ENGINE ROOM HARNESS
75G	G	TO ENGINE ROOM HARNESS
76G	Y	TO ENGINE ROOM HARNESS
77G	BR	TO ENGINE ROOM HARNESS
78G	-	TO ENGINE ROOM HARNESS
79G	R	TO ENGINE ROOM HARNESS
80G	W	TO ENGINE ROOM HARNESS
81G	G	TO ENGINE ROOM HARNESS
82G	P	TO ENGINE ROOM HARNESS
83G	P	TO ENGINE ROOM HARNESS
84G	P	TO ENGINE ROOM HARNESS
85G	P	TO ENGINE ROOM HARNESS
86G	P	TO ENGINE ROOM HARNESS
87G	P	TO ENGINE ROOM HARNESS
88G	P	TO ENGINE ROOM HARNESS
89G	R	TO ENGINE ROOM HARNESS
90G	P	TO ENGINE ROOM HARNESS
91G	L	TO ENGINE ROOM HARNESS
92G	P	TO ENGINE ROOM HARNESS
93G	P	TO ENGINE ROOM HARNESS
94G	O	TO ENGINE ROOM HARNESS
95G	B	TO ENGINE ROOM HARNESS
96G	P	TO ENGINE ROOM HARNESS
97G	P	TO ENGINE ROOM HARNESS
98G	P	TO ENGINE ROOM HARNESS
99G	P	TO ENGINE ROOM HARNESS
100G	SHIELD	TO ENGINE ROOM HARNESS

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	TO BODY HARNESS RH
2	G	TO BODY HARNESS RH
3	Y	TO BODY HARNESS RH
4	R	TO BODY HARNESS RH
5	BG	TO BODY HARNESS RH
6	LG	TO BODY HARNESS RH
7	SB	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	B	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	SHIELD	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH
13	B	TO BODY HARNESS RH
14	SHIELD	TO BODY HARNESS RH
15	B	TO BODY HARNESS RH
16	W	TO BODY HARNESS RH
17	SHIELD	TO BODY HARNESS RH
18	SB	TO BODY HARNESS RH
19	LG	TO BODY HARNESS RH
20	SB	TO BODY HARNESS RH
21	B	TO BODY HARNESS RH
22	W	TO BODY HARNESS RH
23	SHIELD	TO BODY HARNESS RH
24	W	TO BODY HARNESS RH
25	B	TO BODY HARNESS RH
26	SHIELD	TO BODY HARNESS RH
27	B	TO BODY HARNESS RH
28	W	TO BODY HARNESS RH
29	SHIELD	TO BODY HARNESS RH
30	B	TO BODY HARNESS RH
31	W	TO BODY HARNESS RH
32	L	TO BODY HARNESS RH
33	Y	TO BODY HARNESS RH
34	–	TO BODY HARNESS RH
35	–	TO BODY HARNESS RH
36	–	TO BODY HARNESS RH
37	BR	TO BODY HARNESS RH
38	–	TO BODY HARNESS RH
39	–	TO BODY HARNESS RH
40	–	TO BODY HARNESS RH

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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	GR	TO BODY HARNESS
2A	BR	TO BODY HARNESS
3A	Y	TO BODY HARNESS
4A	V	TO BODY HARNESS
5A	L/B	TO BODY HARNESS
6A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	G	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	Y	TO BODY HARNESS
8A	W	TO BODY HARNESS
9A	L	TO BODY HARNESS
10A	R	TO BODY HARNESS
11A	R	TO BODY HARNESS
12A	BG	TO BODY HARNESS
13A	O	TO BODY HARNESS
14A	LG	TO BODY HARNESS
15A	R	TO BODY HARNESS
16A	G	TO BODY HARNESS
17A	B	TO BODY HARNESS
18A	B	TO BODY HARNESS
19A	SHIELD	TO BODY HARNESS
20A	B	TO BODY HARNESS
21A	SHIELD	TO BODY HARNESS
22A	–	TO BODY HARNESS
23A	W	TO BODY HARNESS

24A	B	TO BODY HARNESS
25A	SHIELD	TO BODY HARNESS
26A	B	TO BODY HARNESS
27A	B	TO BODY HARNESS
28A	SHIELD	TO BODY HARNESS
29A	R	TO BODY HARNESS
30A	B	TO BODY HARNESS
31A	R	TO BODY HARNESS
32A	Y/R	TO BODY HARNESS
33A	W	TO BODY HARNESS
34A	B	TO BODY HARNESS
35A	SHIELD	TO BODY HARNESS
36A	L/Y	TO BODY HARNESS
37A	LG	TO BODY HARNESS
38A	V	TO BODY HARNESS
39A	SB	TO BODY HARNESS
40A	BR	TO BODY HARNESS
41A	Y	TO BODY HARNESS
42A	G	TO BODY HARNESS
43A	–	TO BODY HARNESS
44A	W	TO BODY HARNESS
45A	R	TO BODY HARNESS
46A	BG	TO BODY HARNESS
47A	LG	TO BODY HARNESS
48A	R	TO BODY HARNESS
49A	P	TO BODY HARNESS
50A	W	TO BODY HARNESS
51A	L	TO BODY HARNESS
52A	P	TO BODY HARNESS
53A	G	TO BODY HARNESS
54A	W	TO BODY HARNESS
55A	BG	TO BODY HARNESS
56A	BR	TO BODY HARNESS
57A	P	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
57A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
58A	G	TO BODY HARNESS
59A	SB	TO BODY HARNESS
60A	L	TO BODY HARNESS
61A	G	TO BODY HARNESS
62A	BR	TO BODY HARNESS
63A	BR	TO BODY HARNESS
64A	Y	TO BODY HARNESS
65A	W	TO BODY HARNESS
66A	BG	TO BODY HARNESS
67A	Y	TO BODY HARNESS
68A	LG	TO BODY HARNESS
69A	R	TO BODY HARNESS
70A	P	TO BODY HARNESS
71A	BR	TO BODY HARNESS
72A	SB	TO BODY HARNESS
73A	BG	TO BODY HARNESS
74A	BR	TO BODY HARNESS

75A	LG	TO BODY HARNESS
76A	W	TO BODY HARNESS
77A	L	TO BODY HARNESS
78A	V	TO BODY HARNESS
79A	LG	TO BODY HARNESS
80A	Y	TO BODY HARNESS
81A	L	TO BODY HARNESS
82A	BG	TO BODY HARNESS
83A	Y	TO BODY HARNESS
84A	LG	TO BODY HARNESS
85A	SHIELD	TO BODY HARNESS
86A	Y	TO BODY HARNESS
87A	LG	TO BODY HARNESS
88A	BR	TO BODY HARNESS
89A	L	TO BODY HARNESS
90A	P	TO BODY HARNESS
91A	L	TO BODY HARNESS
92A	L	TO BODY HARNESS
93A	B	TO BODY HARNESS
94A	W	TO BODY HARNESS
95A	W	TO BODY HARNESS
96A	–	TO BODY HARNESS
97A	SB	TO BODY HARNESS
98A	Y	TO BODY HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
98A	L	TO BODY HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
99A	–	TO BODY HARNESS
100A	–	TO BODY HARNESS

Connector No.	M55
Connector Name	AV CONTROL UNIT
Connector Type	GT17HN-4DP-2H(A)
Connector Color	BLUE

H.S.

Terminal No.	Color of Wire	Signal Name
137	R	VBUS
138	B	USB GND
139	G	USB D+
140	W	USB D-
141	SHIELD	SHIELD

Connector No.	M62
Connector Name	INSTRUMENT PANEL TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	FR INST TWDR LH+
2	W	FR INST TWDR LH-

Connector No.	M64
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	TO CONSOLE SUB HARNESS
2	B	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	LG	TO CONSOLE SUB HARNESS
5	SHIELD	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	BG	TO CONSOLE SUB HARNESS
9	B	TO CONSOLE SUB HARNESS
10	–	TO CONSOLE SUB HARNESS
11	B/W	TO CONSOLE SUB HARNESS
12	BR	TO CONSOLE SUB HARNESS
13	Y	TO CONSOLE SUB HARNESS
14	SB	TO CONSOLE SUB HARNESS
15	L	TO CONSOLE SUB HARNESS
16	LG	TO CONSOLE SUB HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	M65
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SUB HARNESS
2	G	TO CONSOLE SUB HARNESS
3	BR	TO CONSOLE SUB HARNESS
4	BG	TO CONSOLE SUB HARNESS
5	W	TO CONSOLE SUB HARNESS
6	P	TO CONSOLE SUB HARNESS
7	W	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	LG	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	R	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
8	L	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
9	V	TO CONSOLE SUB HARNESS
10	BG	TO CONSOLE SUB HARNESS
11	P	TO CONSOLE SUB HARNESS
12	G	TO CONSOLE SUB HARNESS
13	SHIELD	TO CONSOLE SUB HARNESS
14	B	TO CONSOLE SUB HARNESS
15	R	TO CONSOLE SUB HARNESS
16	W	TO CONSOLE SUB HARNESS
17	SB	TO CONSOLE SUB HARNESS
18	P	TO CONSOLE SUB HARNESS
19	G	TO CONSOLE SUB HARNESS
20	BG	TO CONSOLE SUB HARNESS
21	R	TO CONSOLE SUB HARNESS
22	W	TO CONSOLE SUB HARNESS
23	R	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS
25	G	TO CONSOLE SUB HARNESS
26	W	TO CONSOLE SUB HARNESS
27	LG	TO CONSOLE SUB HARNESS
28	B	TO CONSOLE SUB HARNESS
29	BR	TO CONSOLE SUB HARNESS
30	SHIELD	TO CONSOLE SUB HARNESS
31	B	TO CONSOLE SUB HARNESS

Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	L	TO BODY HARNESS
2	G	TO BODY HARNESS
3	Y	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
3	R	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
4	P	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
4	SHIELD	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
5	LG	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	W	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	BG	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	SB	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	G	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
9	R	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
10	SHIELD	TO BODY HARNESS
11	B	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
11	W	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
12	W	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
12	B	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
13	Y	TO BODY HARNESS
14	SB	TO BODY HARNESS
15	LG	TO BODY HARNESS
16	LG	TO BODY HARNESS

32	W	TO CONSOLE SUB HARNESS

17	SB	TO BODY HARNESS
18	G	TO BODY HARNESS
19	P	TO BODY HARNESS
20	W	TO BODY HARNESS
21	R	TO BODY HARNESS
22	B	TO BODY HARNESS
23	SHIELD	TO BODY HARNESS
24	-	TO BODY HARNESS

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1R	R	TAIL LH
2R	LG	IGNITION
3R	G	BATTERY
4R	-	-
5R	Y	BATTERY
6R	Y	IGNITION
7R	-	-
8R	-	-
9R	G	BRAKE
10R	W	BATTERY
11R	-	-
12R	-	-
13R	GR	GROUND
14R	-	-
15R	-	-
16R	BG	IGNITION

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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO BODY HARNESS - (WITHOUT NAVI)
1	R	TO BODY HARNESS - (WITH NAVI)
2	B	TO BODY HARNESS - (WITHOUT NAVI)
2	W	TO BODY HARNESS - (WITH NAVI)
3	R	TO BODY HARNESS - (WITHOUT NAVI)
3	B	TO BODY HARNESS - (WITH NAVI)
4	SHIELD	TO BODY HARNESS
5	B	TO BODY HARNESS
6	W	TO BODY HARNESS
7	SHIELD	TO BODY HARNESS
8	B	TO BODY HARNESS
9	SB	TO BODY HARNESS
10	BG	TO BODY HARNESS
11	R	TO BODY HARNESS
12	W	TO BODY HARNESS
13	–	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	L	TO BODY HARNESS
17	P	TO BODY HARNESS - (WITHOUT NAVI)
17	Y	TO BODY HARNESS - (WITH NAVI)
18	Y	TO BODY HARNESS - (WITHOUT NAVI)
18	P	TO BODY HARNESS - (WITH NAVI)
19	W	TO BODY HARNESS - (WITHOUT NAVI)
19	B	TO BODY HARNESS - (WITH NAVI)
20	B	TO BODY HARNESS - (WITHOUT NAVI)
20	W	TO BODY HARNESS - (WITH NAVI)
21	R	TO BODY HARNESS - (WITHOUT NAVI)
21	SHIELD	TO BODY HARNESS - (WITH NAVI)
22	G	TO BODY HARNESS - (WITHOUT NAVI)
22	W	TO BODY HARNESS - (WITH NAVI)
23	SHIELD	TO BODY HARNESS - (WITHOUT NAVI)

23	R	TO BODY HARNESS - (WITH NAVI)
24	SHIELD	TO BODY HARNESS
25	B	TO BODY HARNESS
26	G	TO BODY HARNESS
27	R	TO BODY HARNESS - (WITHOUT NAVI)
27	B	TO BODY HARNESS - (WITH NAVI)
28	B	TO BODY HARNESS - (WITHOUT NAVI)
28	R	TO BODY HARNESS - (WITH NAVI)
29	G	TO BODY HARNESS - (WITH NAVI)
29	W	TO BODY HARNESS - (WITHOUT NAVI)
30	SHIELD	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

Connector No.	M70
Connector Name	SONAR CONTROL UNIT
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	FIR SENSOR SIGNAL
2	B	FIL SENSOR SIGNAL
3	R	FOL SENSOR SIGNAL
4	R	FOR SENSOR SIGNAL
5	B	V CAN-H
6	W	V CAN-L
7	–	–
8	–	–
9	B	RIR SENSOR SIGNAL
10	B	ROR SENSOR SIGNAL
11	–	–
12	LG	IGN
13	B	FR SENSOR GND
14	B	RR SENSOR GND
15	GR	GND
16	LG	DISABLE SW
17	GR	LED OUTPUT
18	–	–
19	BR	SPEAKER PWR
20	LG	SPEAKER RR SIGNAL
21	B	RIL SENSOR SIGNAL
22	W	ROL SENSOR SIGNAL
23	–	–

24	–	–

Connector No.	M73
Connector Name	INSTRUMENT PANEL TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR INST TWDR RH+
2	W	FR INST TWDR RH-

Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK

H.S.

116	115	114	113	112	111	110	109	108	107	106	105
128	127	126	125	124	123	122	121	120	119	118	117

Terminal No.	Color of Wire	Signal Name
105	LG	FR FLASHER
106	–	–
107	W	LOW SIDE START SW LED
108	G	SHIFT LOCK SOLENOID OUT
109	R	REVERSE SIGNAL
110	–	–
111	P	ACC LED
112	–	–
113	L	ACC RELAY OUT
114	W	AS DOOR ANT A
115	BG	AS DOOR ANT B
116	W	ROOM ANT 2 A
117	SB	FL FLASHER
118	–	–
119	R	RF NIMOCO
120	–	–
121	G	DR DOOR ANT B

122	P	DR DOOR ANT A
123	–	–
124	–	–
125	–	–
126	P	IMMO START BUTTON ANT B
127	BG	IMMO START BUTTON ANT A
128	R	ROOM ANT 2 B

Connector No.	M93
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	L	INV VCC
3	V	SIG VCC
4	W	COMP GND
5	SHIELD	COMP SHIELD
6	B	G
7	SHIELD	RGB GND
8	G	HP
9	W	YS
10	–	–
11	W	UART IN
12	–	–
13	LG	INV GND
14	B	SIG GND
15	B	COMP
16	–	–
17	R	R
18	W	B
19	B	RGB SYNC
20	R	VP
21	SHIELD	SYNC GND
22	B	UART OUT
23	SHIELD	UART GND
24	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	M95
Connector Name	WIRE TO WIRE
Connector Type	GT13SH-2/1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS

Connector No.	M98
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	GR	GND
2	–	–
3	P	ACC
4	R	ILL
5	B	ILL CONT
6	SB	MCAN-H
7	–	–
8	LG	MCAN-L
9	V	EJECT GND
10	–	–
11	–	–
12	–	–
13	–	–
14	Y	CD (DVD) EJECT
15	R	AIRBAG CUTOFF
16	LG	HAZARD

Connector No.	M109
Connector Name	FRONT TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	FR DR SP LH+ (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
1	G	FR DR SP LH+ (WITH BOSE AUDIO SYSTEM WITH SURROUND SOUND SYSTEM)
2	W	FR DR SP LH- (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
2	R	FR DR SP LH- (WITH BOSE AUDIO SYSTEM WITH SURROUND SOUND SYSTEM)

Connector No.	M110
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	FRONT CENTER SP+
2	W	FRONT CENTER SP-

Connector No.	M111
Connector Name	FRONT TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	FR DR SP RH+ (WITH SURROUND SOUND SYSTEM)
1	G	FR DR SP RH+ (WITHOUT SURROUND SOUND SYSTEM)
2	B	FR DR SP RH- (WITH SURROUND SOUND SYSTEM)
2	W	FR DR SP RH- (WITHOUT SURROUND SOUND SYSTEM)

Connector No.	M115
Connector Name	WIRE TO WIRE
Connector Type	GT17VS-6DS-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO CONSOLE SUB HARNESS
2	R	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	W	TO CONSOLE SUB HARNESS
5	–	TO CONSOLE SUB HARNESS
6	G	TO CONSOLE SUB HARNESS
7	–	TO CONSOLE SUB HARNESS

Connector No.	M142
Connector Name	AV CONTROL UNIT (WITH BASE AUDIO SYSTEM)
Connector Type	GT13SH-2/1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
142	B	ANT +B
143	B	ANT MAIN
144	SHIELD	SHIELD
145	B	ANT SUB
146	SHIELD	SHIELD

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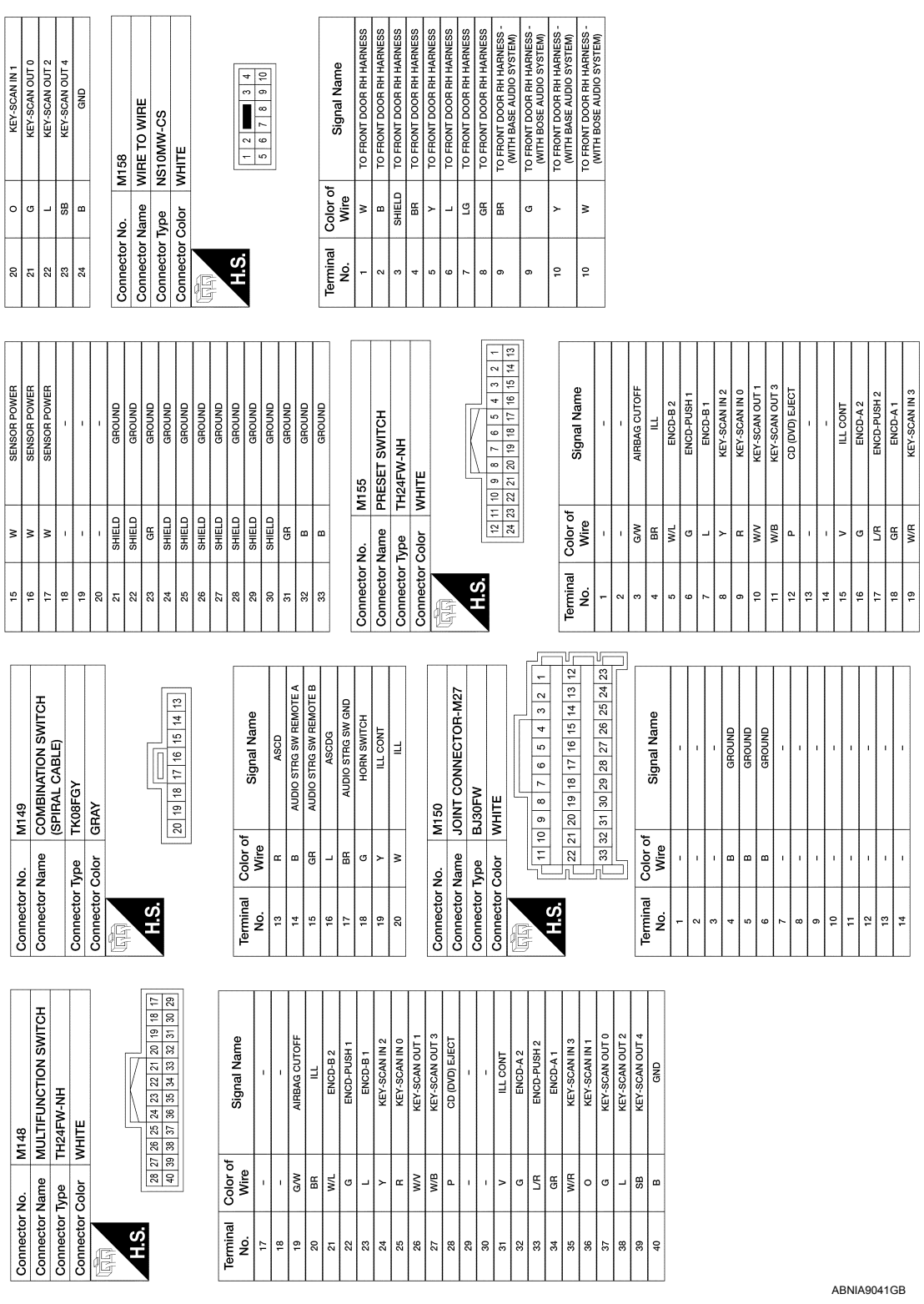
BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM



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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	M167
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO FRONT DOOR LH HARNESS
2	V	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	V	TO FRONT DOOR LH HARNESS
5	SB	TO FRONT DOOR LH HARNESS
6	BR	TO FRONT DOOR LH HARNESS
7	Y	TO FRONT DOOR LH HARNESS
8	W	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
8	V	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
9	P	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM (WITHOUT SURROUND SOUND SYSTEM)
9	G	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
9	SB	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
10	L	TO FRONT DOOR LH HARNESS
11	BR	TO FRONT DOOR LH HARNESS
12	Y	TO FRONT DOOR LH HARNESS
13	LG	TO FRONT DOOR LH HARNESS
14	SHIELD	TO FRONT DOOR LH HARNESS
15	B	TO FRONT DOOR LH HARNESS
16	W	TO FRONT DOOR LH HARNESS

Connector No.	M170
Connector Name	JOINT CONNECTOR-M09
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	SHIELD
2	Y	SHIELD
3	SHIELD	SHIELD
4	–	–
5	–	–
6	GR	SHIELD
7	SHIELD	SHIELD
8	SHIELD	SHIELD
9	SHIELD	SHIELD
10	SHIELD	SHIELD
11	–	–
12	G	SENS GND
13	–	–
14	G	SENS GND
15	G	SENS GND
16	G	SENS GND
17	G	SENS GND
18	Y	SENS GND
19	Y	SENS GND
20	Y	SENS GND
21	Y	SENS GND
22	Y	SENS GND
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	W	PW LIN
29	W	PW LIN
30	W	PW LIN
31	–	–
32	W	PW LIN
33	W	PW LIN

Connector No.	M171
Connector Name	JOINT CONNECTOR-M10
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	P	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
2	SB	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
3	P	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
3	SB	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
4	P	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
4	SB	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M172
Connector Name	JOINT CONNECTOR-M11
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
2	V	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
3	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
3	V	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
4	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
4	V	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M173
Connector Name	JOINT CONNECTOR-M12
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	G	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
2	BR	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
3	G	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
3	BR	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
4	G	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
4	BR	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M174
Connector Name	JOINT CONNECTOR-M13
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
2	Y	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
3	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
3	Y	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
4	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
4	Y	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)

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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	M175
Connector Name	JOINT CONNECTOR-M22
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	BATTERY
2	Y	BATTERY
3	Y	BATTERY
4	Y	BATTERY
5	Y	BATTERY
6	Y	BATTERY
7	Y	BATTERY
8	Y	BATTERY
9	Y	BATTERY
10	–	–
11	Y	BATTERY
12	R	BATTERY
13	R	BATTERY
14	R	BATTERY
15	B	ILLUMI CONT OUT
16	B	ILLUMI CONT OUT
17	B	ILLUMI CONT OUT
18	–	–
19	L	DOOR LOCK DR/AS/FL
20	L	DOOR LOCK DR/AS/FL
21	L	DOOR LOCK DR/AS/FL
22	L	DOOR LOCK DR/AS/FL
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	–	–
29	P	ACCESSORY
30	P	ACCESSORY
31	P	ACCESSORY
32	P	ACCESSORY
33	–	–

Connector No.	M176
Connector Name	JOINT CONNECTOR-M56
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	SB	M CAN-H
2	SB	M CAN-H
3	SB	M CAN-H
4	SB	M CAN-H

Connector No.	M177
Connector Name	JOINT CONNECTOR-M57
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	LG	M CAN-L
2	LG	M CAN-L
3	LG	M CAN-L
4	LG	M CAN-L

Connector No.	M192
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM WITHOUT NAVI)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	B	TEL VOICE-
5	W	TEL VOICE+
6	SHIELD	SHIELD
7	–	–
8	–	–
9	–	–
10	V	GND
11	L	CAN-H
12	P	CAN-L
13	SB	M-CAN1 H
14	LG	M-CAN1 L
15	SB	M-CAN2 H TRM
16	LG	M-CAN2 L TRM
17	–	–
18	–	–
19	–	–
20	R	AUX AUDIO RH+
21	W	AUX AUDIO LH+
22	B	AUX GND
23	–	–
24	–	–
25	SHIELD	SHIELD
26	–	–
27	–	–
28	Y	CD (DVD) EJECT
29	LG	IGN
30	R	REVERSE SIG
31	G	PKB SIG
32	BG	SPEED 8P

Connector No.	M193
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM WITHOUT NAVI)
Connector Type	NH18FW-CS2
Connector Color	WHITE

H.S.

33	34	35	36	37	38	39	40	41
51	42	43	44	45	46	47	48	49	50	52

Terminal No.	Color of Wire	Signal Name
33	–	–
34	–	–
35	–	–
36	–	–
37	–	–
38	G	STRG SW
39	P	ACC
40	–	–
41	R	ILL
42	–	–
43	–	–
44	–	–
45	–	–
46	–	–
47	B	STRG SW GND
48	W	STRG SW B
49	–	–
50	–	–
51	Y	+B
52	GR	GND

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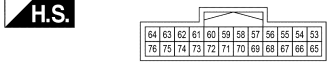
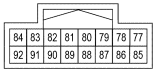
BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	M194
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM WITHOUT NAVI)
Connector Type	TH24FW-NH
Connector Color	WHITE



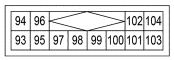
Terminal No.	Color of Wire	Signal Name
53	B	COMP OUT-
54	W	COMP OUT+
55	W	B
56	B	G
57	R	R
58	B	RGB SYN
59	SHIELD	RGB SYN GND
60	W	YS
61	B	DISP IT
62	G	HP
63	B	SIG GND
64	V	SIG VC
65	–	–
66	SHIELD	SHIELD
67	SHIELD	SHIELD
68	–	–
69	–	–
70	–	–
71	–	–
72	SHIELD	SHIELD
73	W	IT DISP
74	R	VP
75	LG	INV GND
76	L	INV VC

Connector No.	M195
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM WITHOUT NAVI)
Connector Type	TH16FW-NH
Connector Color	WHITE



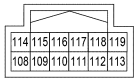
Terminal No.	Color of Wire	Signal Name
77	–	–
78	–	–
79	–	–
80	–	–
81	–	–
82	W	COMP2 IN +
83	W	COMP1 IN +
84	–	–
85	–	–
86	–	–
87	R	CAM 6.2
88	B	CAM GND
89	SHIELD	SHIELD
90	SHIELD	SHIELD
91	B	COMP IN
92	–	–

Connector No.	M196
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM WITHOUT NAVI)
Connector Type	A12FW
Connector Color	WHITE



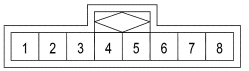
Terminal No.	Color of Wire	Signal Name
93	W	N BUS LH-
94	B	N BUS LH+
95	R	N BUS RH-
96	G	N BUS RH+
97	SHIELD	SHIELD
98	SHIELD	SHIELD
99	–	–
100	W	REQ1
101	B	TX
102	R	RX
103	–	–
104	–	–

Connector No.	M197
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM WITHOUT NAVI)
Connector Type	TH12FW-NH
Connector Color	WHITE



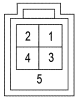
Terminal No.	Color of Wire	Signal Name
108	B	RR RH PRE+
109	W	FR RH PRE+
110	SB	AMP ON
111	BR	SHIELD
112	B	RR LH PRE+
113	B	FR LH PRE+
114	W	RR RH PRE-
115	B	FR RH PRE-
116	–	–
117	–	–
118	W	RR LH PRE-
119	W	FR LH PRE-

Connector No.	M205
Connector Name	FRONT AUXILIARY INPUT JACKS
Connector Type	A08FW
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	W	AUX AUDIO RH+
2	B	AUX GND
3	R	AUX AUDIO LH+
4	–	–
5	–	–
6	–	–
7	W	COMP1 IN +
8	B	COMP1 IN -

Connector No.	M209
Connector Name	USB INTERFACE
Connector Type	HAA04FG
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
1	B	USB GND
2	R	V-BUS
3	W	USB D-
4	G	USB D+
5	SHIELD	SHIELD

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BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	M210
Connector Name	WIRE TO WIRE
Connector Type	GT17VS-6DP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	W	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	G	TO MAIN HARNESS
7	–	TO MAIN HARNESS

Connector No.	M216
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	R	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	B	TO MAIN HARNESS
8	BG	TO MAIN HARNESS
9	B	TO MAIN HARNESS
10	–	TO MAIN HARNESS
11	–	TO MAIN HARNESS
12	BR	TO MAIN HARNESS
13	LG	TO MAIN HARNESS
14	L	TO MAIN HARNESS
15	LG	TO MAIN HARNESS

16	Y	TO MAIN HARNESS

Connector No.	M217
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	BG	TO MAIN HARNESS
3	Y	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	P	TO MAIN HARNESS
7	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	W	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	L	TO MAIN HARNESS
9	G	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
9	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
10	V	TO MAIN HARNESS
11	P	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	SHIELD	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	W	TO MAIN HARNESS
16	R	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	L	TO MAIN HARNESS
19	G	TO MAIN HARNESS
20	Y	TO MAIN HARNESS
21	B	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	R	TO MAIN HARNESS
24	B	TO MAIN HARNESS
25	G	TO MAIN HARNESS
26	W	TO MAIN HARNESS
27	LG	TO MAIN HARNESS
28	B	TO MAIN HARNESS
29	BR	TO MAIN HARNESS
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS

32	W	TO MAIN HARNESS

Connector No.	M230
Connector Name	JOINT CONNECTOR-M01
Connector Type	A06FGY
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	B	GND
3	SHIELD	GND
4	SHIELD	GND
5	–	–
6	–	–

Connector No.	M500
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1 PP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS

Connector No.	M501
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU (B)
Connector Color	GREEN

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	SAT ANT
5	SHIELD	SAT SHIELD

Connector No.	M502
Connector Name	ANTENNA BASE
Connector Type	GT17VSN-6DP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT +B
2	B	ANT MAIN
3	SHIELD	SHIELD

Connector No.	M503
Connector Name	WIRE TO WIRE
Connector Type	GT13S-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

ABNIA9045GB

BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	M504
Connector Name	WIRE TO WIRE
Connector Type	GT13S-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

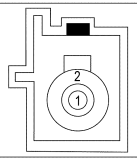
Connector No.	M505
Connector Name	GLASS ANTENNA (FM SUB)
Connector Type	P01FB-A
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT SUB

Connector No.	M507
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU (B)
Connector Color	GREEN

H.S.

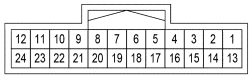


Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS
2	SHIELD	TO BODY HARNESS

ABNIA9046GB

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

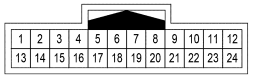
H.S.



Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	W	TO MAIN HARNESS
4	Y/R	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	Y	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	W	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	R/G	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	SHIELD	TO MAIN HARNESS
16	P	TO MAIN HARNESS
17	BG	TO MAIN HARNESS
18	–	TO MAIN HARNESS
19	V	TO MAIN HARNESS
20	W	TO MAIN HARNESS
21	SB	TO MAIN HARNESS
22	L	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	B	TO MAIN HARNESS

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

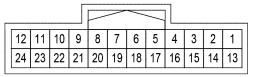
H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO ROOM LAMP HARNESS
2	B	TO ROOM LAMP HARNESS
3	BG	TO ROOM LAMP HARNESS
4	P	TO ROOM LAMP HARNESS
5	SHIELD	TO ROOM LAMP HARNESS
6	B	TO ROOM LAMP HARNESS
7	W	TO ROOM LAMP HARNESS
8	B	TO ROOM LAMP HARNESS
9	B	TO ROOM LAMP HARNESS
10	W	TO ROOM LAMP HARNESS
11	R	TO ROOM LAMP HARNESS
12	G	TO ROOM LAMP HARNESS
13	–	TO ROOM LAMP HARNESS
14	–	TO ROOM LAMP HARNESS
15	L	TO ROOM LAMP HARNESS
16	SB	TO ROOM LAMP HARNESS
17	–	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	–	TO ROOM LAMP HARNESS
20	–	TO ROOM LAMP HARNESS
21	SB	TO ROOM LAMP HARNESS
22	L	TO ROOM LAMP HARNESS
23	BR	TO ROOM LAMP HARNESS
24	V	TO ROOM LAMP HARNESS

Connector No.	R101
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

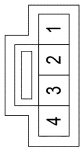


Terminal No.	Color of Wire	Signal Name
1	V	TO ROOM LAMP HARNESS
2	R	TO ROOM LAMP HARNESS
3	G	TO ROOM LAMP HARNESS
4	P	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	L	TO ROOM LAMP HARNESS
7	R	TO ROOM LAMP HARNESS
8	B	TO ROOM LAMP HARNESS
9	B	TO ROOM LAMP HARNESS
10	W	TO ROOM LAMP HARNESS
11	R	TO ROOM LAMP HARNESS
12	G	TO ROOM LAMP HARNESS
13	–	TO ROOM LAMP HARNESS
14	–	TO ROOM LAMP HARNESS
15	L	TO ROOM LAMP HARNESS
16	SB	TO ROOM LAMP HARNESS
17	–	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	–	TO ROOM LAMP HARNESS
20	–	TO ROOM LAMP HARNESS
21	–	TO ROOM LAMP HARNESS
22	–	TO ROOM LAMP HARNESS
23	BR	TO ROOM LAMP HARNESS
24	L	TO ROOM LAMP HARNESS

BOSE AUDIO SYSTEM CONNECTORS - WITHOUT NAVIGATION SYSTEM

Connector No.	R109
Connector Name	MICROPHONE
Connector Type	TK04FW
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	R	MIC VCC
2	–	–
3	GR	MIC GND
4	L	MIC SIG

ABNIA9047GB

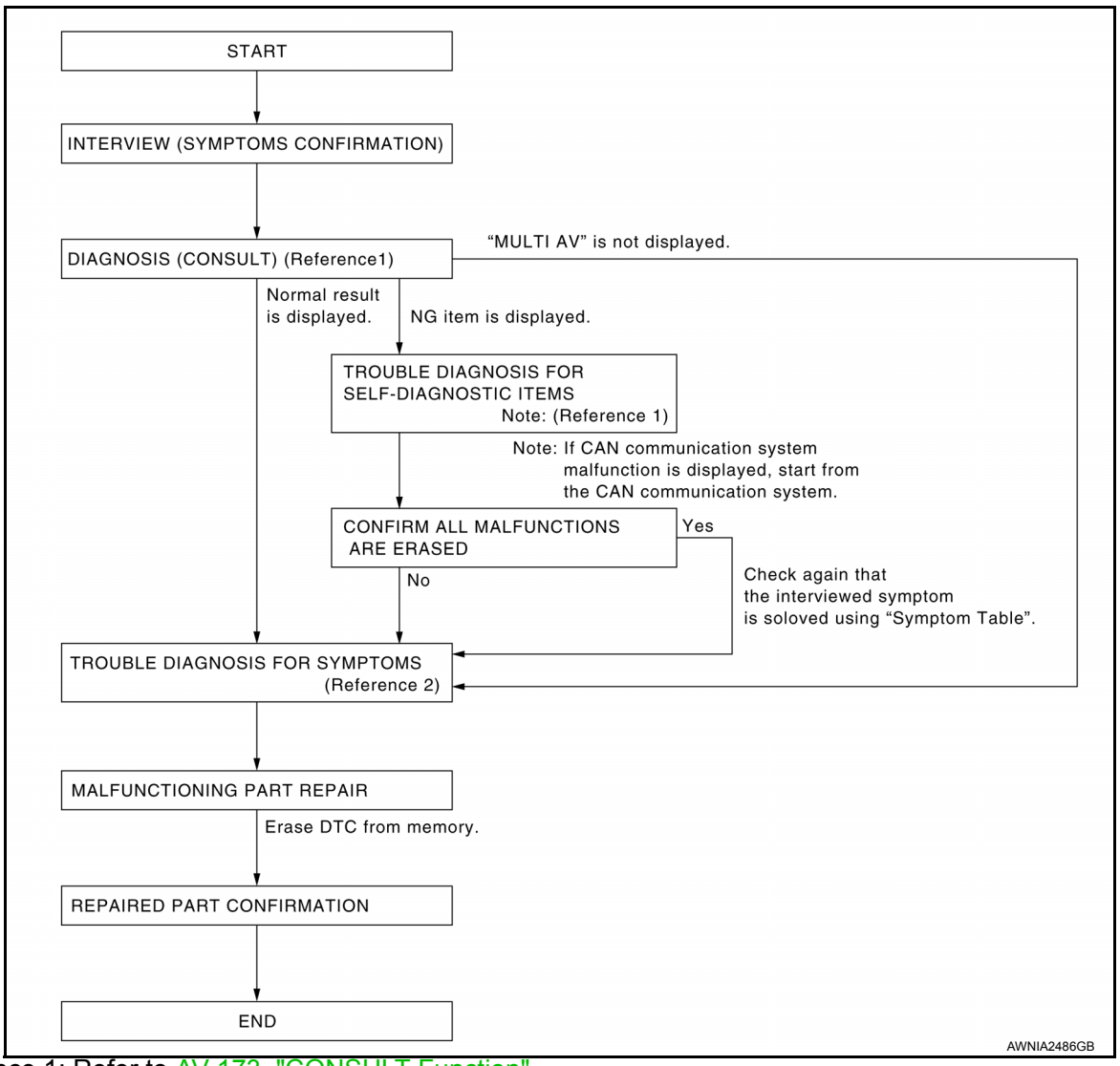
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow (Multi AV System)

INFOID:0000000012849490

OVERALL SEQUENCE



Reference 1: Refer to AV-173, "CONSULT Function".
Reference 2: Refer to AV-324, "Symptom Table".

DETAILED FLOW

1.CHECK SYMPTOM

Check the malfunction symptoms by performing the following items:
- Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred).
- Check the symptom.

>> GO TO 2

2.SELF-DIAGNOSIS (CONSULT)

1. Connect CONSULT and perform "SELF-DIAGNOSIS" for "MULTI AV".
   NOTE:
   Skip to step 4 of the diagnosis procedure if "MULTI AV" is not displayed.
2. Check if any DTC No. is displayed in the self-diagnosis results.

Is any DTC No. displayed?

YES >> GO TO 3
NO >> GO TO 4

3. CHECK SELF-DIAGNOSIS RESULTS (CONSULT)

1. Check the DTC No. indicated in the self-diagnosis results.
2. Perform the relevant diagnosis referring to the DTC No. list. Refer to AV-185, "DTC Index".

NOTE:
Start with the diagnosis for the CAN communication system if “CAN COMM CIRCUIT [U1000] or CONTROL UNIT (CAN) [U1010]” is displayed.

>> GO TO 5

4. PERFORM DIAGNOSIS BY SYMPTOM

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to AV-324, "Symptom Table".

>> GO TO 5

5. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace the identified malfunctioning parts.

NOTE:
Erase the stored self-diagnosis results after repairing or replacing the relevant components if any DTC No. has been indicated in the self-diagnosis results.

>> GO TO 6

6. CHECK AFTER REPAIR

1. Perform self-diagnosis for “MULTI AV” with CONSULT after repairing or replacing the malfunctioning parts.
2. Check if any DTC No. is displayed in the self-diagnosis results.

Is any DTC No. displayed?

YES >> GO TO 3
NO >> GO TO 7

7. FINAL CHECK

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

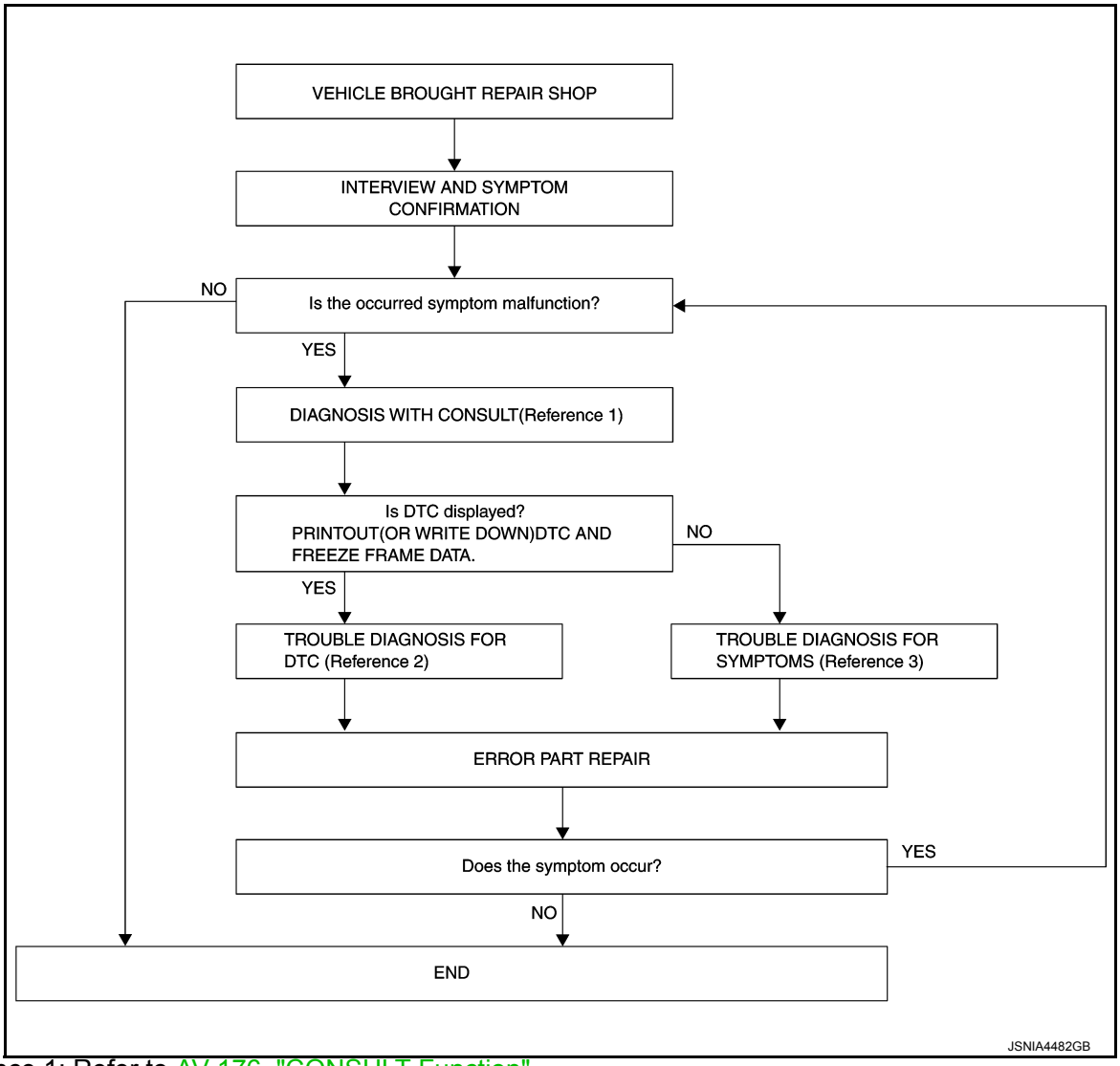
Are any symptoms present?

YES >> GO TO 4
NO >> Inspection End.

Work Flow (Camera Assistance Sonar)

INFOID:0000000013600299

OVERALL SEQUENCE



Reference 1: Refer to AV-176, "CONSULT Function".
Reference 2: Refer to AV-200, "DTC Index".
Reference 3: Refer to AV-324, "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

1. Connect CONSULT and perform a self-diagnosis for “SONAR”. Refer to AV-176, "CONSULT Function".
   NOTE:
   Skip to step 4 of the diagnosis procedure if “SONAR” is not displayed.
2. When DTC is detected, follow the instructions below:

- Record DTC and Freeze Frame Data.

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-200, "DTC Index".

>> GO TO 5.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to AV-324, "Symptom Table".

>> GO TO 5.

5. ERROR PART REPAIR

1. Repair or replace the identified malfunctioning parts.
2. Perform a self-diagnosis for “SONAR” with CONSULT.
   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

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description

INFOID:0000000012849491

BEFORE REPLACEMENT

When replacing AV control unit, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:

If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing AV control unit.

AFTER REPLACEMENT

CAUTION:

When replacing AV control unit, you must perform “After Replace ECU” with CONSULT.

- **Complete the procedure of “After Replace ECU” in order.**
- **If you set incorrect “After Replace ECU”, incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Work Procedure

INFOID:0000000012849492

1. SAVING VEHICLE SPECIFICATION

-CONSULT

Enter “Re/Programming, Configuration” and perform “Before Replace ECU” to save or print current vehicle specification.

NOTE:

If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing AV control unit.

>> GO TO 2.

2. REPLACE AV CONTROL UNIT

Replace AV control unit. Refer to AV-332, "Removal and Installation".

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

CONSULT

1. Enter "Re/Programming, Configuration".
2. If “Before Replace ECU” operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press “Confirm” to write vehicle specification. Refer to AV-237, "CONFIGURATION (AV CONTROL UNIT) : Work Procedure".
3. If “Before Replace ECU” operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to AV-237, "CONFIGURATION (AV CONTROL UNIT) : Work Procedure".

>> GO TO 4.

4. OPERATION CHECK

Check that the operation of the AV control unit and camera images (fixed guide lines and predictive course lines) are normal.

>> Work End.

CONFIGURATION (AV CONTROL UNIT)

CONFIGURATION (AV CONTROL UNIT) : Description

INFOID:0000000012849493

Vehicle specification needs to be written with CONSULT because it is not written after replacing AV control unit.
Configuration has three functions as follows:

Function	Description
"Before Replace ECU"	• Reads the vehicle configuration of current AV control unit. • Saves the read vehicle configuration.
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

CAUTION:
- **When replacing AV control unit, you must perform “Select Saved Data List” or "After Replace ECU" with CONSULT.**
- **Complete the procedure of “Select Saved Data List” or "After Replace ECU" in order.**
- **If you set incorrect “Select Saved Data List” or "After Replace ECU", incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**
- **Never perform “Select Saved Data List” or "After Replace ECU" except for new AV control unit.**

CONFIGURATION (AV CONTROL UNIT) : Work Procedure

INFOID:0000000012849494

1.WRITING MODE SELECTION

CONSULT
Select “Reprogramming, Configuration” of AV control unit.

When writing saved data>>GO TO 2.
When writing manually>>GO TO 3.

2.PERFORM “SAVED DATA LIST”

CONSULT
Automatically “Operation Log Selection” window will display if “Before Replace ECU” was performed. Select applicable file from the “Save Data List” and press “Confirm”.

>> Work End.

3.PERFORM “AFTER REPLACE ECU” OR “MANUAL CONFIGURATION”

CONSULT
1. Select “After Replace ECU” or “Manual Configuration”.
2. Identify the correct model and configuration list. Refer to AV-238, "CONFIGURATION (AV CONTROL UNIT) : Configuration List".
3. Confirm and/or change setting value for each item.
   CAUTION:
   Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.
4. Select “Next”.
   CAUTION:
   Make sure to select “Next”, confirm each setting value and press “OK” even if the indicated configuration of brand new AV control unit is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model can not be memorized.
5. When "Completed", select "End".

>> GO TO 4.

4.OPERATION CHECK

Confirm that each function controlled by AV control unit operates normally.

>> Work End.

CONFIGURATION (AV CONTROL UNIT) : Configuration List

INFOID:0000000012849495

CAUTION:
Thoroughly read and understand the vehicle specification. Incorrect settings may result in abnormal control of ECU.

SETTING ITEM		NOTE
Items	Setting Value	
SOUND SYSTEM	BASE ⇔ BOSE	BASE: Without BOSE audio BOSE: With BOSE audio
CAMERA SYSTEM	NONE/AVM ⇔ REAR CAMERA	NONE/AVM: With no camera system or with around view monitor REAR CAMERA: With rear view camera

⇔: Items which confirm vehicle specifications

ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT : Description

INFOID:0000000013600300

BEFORE REPLACEMENT

When replacing sonar control unit, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:
If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing sonar control unit.

AFTER REPLACEMENT

CAUTION:
When replacing sonar control unit, you must perform “After Replace ECU” with CONSULT.
- **Complete the procedure of “After Replace ECU” in order.**
- **If you set incorrect “After Replace ECU”, incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**

ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT : Work Procedure

INFOID:0000000013600301

1.SAVING VEHICLE SPECIFICATION

-CONSULT
Enter “Re/Programming, Configuration” and perform “Before Replace ECU” to save or print current vehicle specification.

NOTE:
If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing sonar control unit.

>> GO TO 2.

2.REPLACE SONAR CONTROL UNIT

Replace sonar control unit. Refer to AV-352, "Removal and Installation".

>> GO TO 3.

3.WRITING VEHICLE SPECIFICATION

CONSULT
1. Enter "Re/Programming, Configuration".
2. If “Before Replace ECU” operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press “Confirm” to write vehicle specification. Refer to AV-239, "CONFIGURATION (SONAR CONTROL UNIT) : Work Procedure".

3. If “Before Replace ECU” operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to AV-239, "CONFIGURATION (SONAR CONTROL UNIT) : Work Procedure".

>> GO TO 4.

4. OPERATION CHECK

Check that the operation of the sonar control unit is normal.

>> Work End.

CONFIGURATION (SONAR CONTROL UNIT)

CONFIGURATION (SONAR CONTROL UNIT) : Description

INFOID:0000000013600302

Vehicle specification needs to be written with CONSULT because it is not written after replacing sonar control unit.
Configuration has three functions as follows:

Function	Description
"Before Replace ECU"	• Reads the vehicle configuration of current sonar control unit. • Saves the read vehicle configuration.
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

CAUTION:
- **When replacing sonar control unit, you must perform “Select Saved Data List” or "After Replace ECU" with CONSULT.**
- **Complete the procedure of “Select Saved Data List” or "After Replace ECU" in order.**
- **If you set incorrect “Select Saved Data List” or "After Replace ECU", incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**
- **Never perform “Select Saved Data List” or "After Replace ECU" except for new sonar control unit.**

CONFIGURATION (SONAR CONTROL UNIT) : Work Procedure

INFOID:0000000013600303

1. WRITING MODE SELECTION

CONSULT
Select “Reprogramming, Configuration” of sonar control unit.

When writing saved data>>GO TO 2.
When writing manually>>GO TO 3.

2. PERFORM “SAVED DATA LIST”

CONSULT
Automatically “Operation Log Selection” window will display if “Before Replace ECU” was performed. Select applicable file from the “Save Data List” and press “Confirm”.

>> Work End.

3. PERFORM “AFTER REPLACE ECU” OR “MANUAL CONFIGURATION”

CONSULT
1. Select “After Replace ECU” or “Manual Configuration”.
2. Identify the correct model and configuration list. Refer to AV-240, "CONFIGURATION (SONAR CONTROL UNIT) : Configuration List".
3. Confirm and/or change setting value for each item.
   CAUTION:
   Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.

4. Select “Next”.
CAUTION:
Make sure to select “Next”, confirm each setting value and press “OK” even if the indicated configuration of brand new sonar control unit is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model can not be memorized.
5. When "Completed", select "End".

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by sonar control unit operates normally.

>> Work End.

CONFIGURATION (SONAR CONTROL UNIT) : Configuration List

INFOID:0000000013600304

CAUTION:
Thoroughly read and understand the vehicle specification. Incorrect settings may result in abnormal control of ECU.

MANUAL SETTING ITEM	
Items	Setting value
BCI FUNCTION	WITH ⇔ WITHOUT

⇔: Items which confirm vehicle specifications

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

AV CONTROL UNIT

AV CONTROL UNIT : DTC Logic

INFOID:0000000013600223

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1000]	AV control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.	CAN communication system.

AV CONTROL UNIT : Diagnosis Procedure

INFOID:0000000013600224

1. PERFORM SELF DIAGNOSTIC RESULT

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

Is CAN COMM CIRCUIT displayed?

YES >> Refer to LAN-28, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-50, "Intermittent Incident".

SONAR CONTROL UNIT

SONAR CONTROL UNIT : DTC Logic

INFOID:0000000013600225

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1000]	Sonar control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.	CAN communication system.

SONAR CONTROL UNIT : Diagnosis Procedure

INFOID:0000000013600226

1. PERFORM SELF DIAGNOSTIC RESULT

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Perform Self Diagnostic Result for SONAR.

Is CAN COMM CIRCUIT displayed?

YES >> Refer to LAN-28, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-50, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

AV CONTROL UNIT

AV CONTROL UNIT : DTC Logic

INFOID:0000000013600236

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-332, "Removal and Installation".

SONAR CONTROL UNIT

SONAR CONTROL UNIT : DTC Logic

INFOID:0000000013600237

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the sonar control unit if the malfunction occurs constantly. Refer to AV-352, "Removal and Installation".

U1200 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849499

CONSULT Display	DTC Detection Condition	Possible Cause
CONT UNIT [U1200]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-332, "Removal and Installation".

U1216 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849500

CONSULT Display	DTC Detection Condition	Possible Cause
CAN CONT [U1216]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-332, "Removal and Installation".

U1231 BOSE AMP.

DTC Logic

INFOID:0000000012849501

CONSULT Display	DTC Detection Condition	Possible Cause
AMP TEMP [U1231]	BOSE amp. malfunction is detected.	Replace BOSE amp. if malfunction occurs constantly. Refer to AV-338, "Removal and Installation".

U1232 STEERING ANGLE SENSOR

DTC Logic

INFOID:0000000012849502

CONSULT Display	DTC Detection Condition	Possible Cause
ST ANGLE SEN CALIB [U1232]	Predictive course line center position adjustment of the steering angle sensor is incomplete.	Adjust the predictive course line center position of the steering angle sensor. Refer to AV-173, "CONSULT Function".

Diagnosis Procedure

INFOID:0000000012849503

1.ADJUST THE PREDICTIVE COURSE LINE CENTER POSITION OF THE STEERING ANGLE SENSOR

When U1232 is detected, adjust the predictive course line center position of the steering angle sensor.

>> Refer to AV-173, "CONSULT Function".

U1243 DISPLAY UNIT

DTC Logic

INFOID:0000000012849504

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT DISP CONN [U1243]	When any of the following is detected: • display unit power supply or ground circuit malfunction. • serial communication circuit malfunction between display unit and AV control unit.	• Display unit power supply and ground circuits. • Serial communication circuits between display unit and AV control unit.

Diagnosis Procedure

INFOID:0000000012849505

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check display unit power supply and ground circuits. Refer to AV-271, "DISPLAY UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector M194.
3. Check continuity between display unit connector M93 terminals 11, 22 and AV control unit connector M194 terminals 73, 61.

Display unit		AV control unit		Continuity
Connector	Terminals	Connector	Terminals	
M93	11	M194	73	Yes
	22		61	

4. Check continuity between display unit connector M93 terminals 11, 22 and ground.

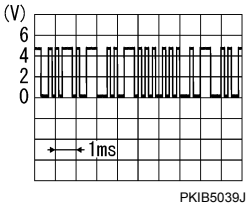
Display unit		Ground	Continuity
Connector	Terminals		
M93	11	—	No
	22		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK COMMUNICATION SIGNAL (CONT→DISP)

1. Connect display unit connector and AV control unit connector M194.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 11 and ground.

Display unit		Ground	Condition	Reference value
(+)		(−)		
Connector	Terminal			
M93	11	—	When adjusting display brightness.	

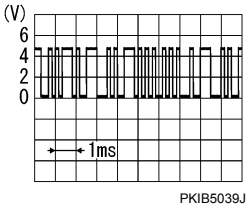
PKIB5039J

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

4. CHECK COMMUNICATION SIGNAL (DISP→CONT)

Check signal between display unit connector M93 terminal 22 and ground.

Display unit		Ground	Condition	Reference value
(+)		(−)		
Connector	Terminal			
M93	22	—	When adjusting display brightness.	

PKIB5039J

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace display unit. Refer to AV-337, "Removal and Installation".

U1255 SATELLITE RADIO TUNER

DTC Logic

INFOID:0000000012849506

CONSULT Display	DTC Detection Condition	Possible Cause
SAT CONN [U1255]	When any of the following is detected: • satellite radio tuner power supply or ground circuit malfunction. • communication circuit malfunction between AV control unit and satellite radio tuner. • request signal circuit malfunction between AV control unit and satellite radio tuner.	• Satellite radio tuner power supply and ground circuits. • Communication circuits between AV control unit and satellite radio tuner. • Request signal circuits between AV control unit and satellite radio tuner.

Diagnosis Procedure

INFOID:0000000012849507

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK SATELLITE RADIO TUNER POWER SUPPLY AND GROUND CIRCUIT

Check satellite radio tuner power supply and ground circuit. Refer to AV-274, "SATELLITE RADIO TUNER : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION CIRCUIT AND REQUEST SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M196 and satellite radio tuner connector B2.
3. Check continuity between AV control unit connector M196 terminals 100, 101, 102 and satellite radio tuner connector B2 terminals 28, 29, 30.

AV control unit		Satellite radio tuner		Continuity
Connector	Terminals	Connector	Terminals	
M196	100	B2	28	Yes
	101		29	
	102		30	

4. Check continuity between AV control unit connector M196 terminals 100, 101, 102 and ground.

AV control unit			Continuity
Connector	Terminals		
M196	100	Ground	No
	101		
	102		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector M196.
2. Turn ignition switch ON.
3. Check signal between AV control unit connector M196 terminals 100, 101 and ground.

AV control unit		Ground	Voltage (Approx.)
(+)		(−)	
Connector	Terminals		
M196	100	—	7.0 V
	101		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

4. CHECK SATELLITE RADIO TUNER VOLTAGE

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M196.
3. Connect satellite radio tuner connector B2.
4. Turn ignition switch ON.
5. Check signal between satellite radio tuner connector B2 terminal 30 and ground.

Satellite radio tuner		Ground	Voltage (Approx.)
(+)		(−)	
Connector	Terminals		
B2	30	—	7.0 V

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace satellite radio tuner. Refer to AV-351, "Removal and Installation".

U1265 BOSE AMP.

DTC Logic

INFOID:0000000012849508

CONSULT Display	DTC Detection Condition	Possible Cause
AMP ON TERMINAL [U1265]	BOSE amp. ON signal circuit open or short circuited.	BOSE amp. ON signal circuit between AV control unit and BOSE amp.

Diagnosis Procedure

INFOID:0000000012849509

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND BOSE SPEAKER AMP.

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M197 and Bose speaker amp. connector B130.
3. Check continuity between AV control unit connector M197 and Bose speaker amp. connector B130.

AV control unit		Bose speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M197	110	B130	20	Yes

4. Check continuity between AV control unit connector M197 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M197	110	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector M197.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector M197 and ground.

AV control unit		Ground	Voltage (Approx.)
(+)		(–)	
Connector	Terminal		
M197	110	—	Battery voltage

Is the inspection result normal?

YES >> Replace Bose speaker amp. Refer to AV-338, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

U1300 AV COMM CIRCUIT

Description

INFOID:0000000012849510

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

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

CONSULT Display	DTC Detection Condition	Possible Cause
• AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240]	When any of the following is detected: • Multifunction switch power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and multifunction switch.	• Multifunction switch power supply and ground circuits. • AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT [U1300] • AMP CONN [U124E]	When any of the following is detected: • BOSE speaker amp. power supply or ground circuit malfunction. • AV communication circuits between AV control unit and BOSE speaker amp. are malfunctioning.	• BOSE speaker amp. power supply and ground circuits. Refer to AV-273, "BOSE AMP. : Diagnosis Procedure". • AV communication circuits between AV control unit and BOSE speaker amp.
• AV COMM CIRCUIT [U1300] • HAND FREE CONN [U1256]	When any of the following is detected: • Bluetooth® control unit power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and Bluetooth® control unit.	• Bluetooth® control unit power supply and ground circuits. • AV communication circuits between AV control unit and Bluetooth® control unit.
• AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • HAND FREE CONN [U1256]	AV communication circuit malfunction between AV control unit and multifunction switch.	AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT [U1300] • SONAR CONN [U125C]	When any of the following is detected: • sonar control unit power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and sonar control unit.	• Sonar control unit power supply and ground circuits. Refer to AV-276, "SONAR CONTROL UNIT : Diagnosis Procedure". • AV communication circuits between AV control unit and sonar control unit.

U1310 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849511

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (AV) [U1310]	An initial diagnosis error is detected in AV communication circuit.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-332, "Removal and Installation".

U1601, U1603, U1609, U160B FRONT DOOR SPEAKER/TWEETER

DTC Logic

INFOID:0000000012849512

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FL-DOOR WOOFER (OPEN, SHORT, GND-SHORT) [U1601] FL-DOOR WOOFER (VB-SHOR] [U1603]	When any of the following is detected: • Sound signal circuit malfunction between BOSE speaker amp. and front door speaker LH. • Sound signal circuit malfunction between BOSE speaker amp. and front tweeter LH.	• Sound signal circuits between BOSE speaker amp. and front door speaker LH. Refer to AV-286, "Diagnosis Procedure". • Sound signal circuits between BOSE speaker amp. and front tweeter LH. Refer to AV-283, "Diagnosis Procedure".
FR-DOOR WOOFER (OPEN, SHORT, GND-SHORT) [U1609] FR-DOOR WOOFER (VB-SHOR) [U160B]	When any of the following is detected: • Sound signal circuit malfunction between BOSE speaker amp. and front door speaker RH. • Sound signal circuit malfunction between BOSE speaker amp. and front tweeter RH.	• Sound signal circuits between BOSE speaker amp. and front door speaker RH. Refer to AV-286, "Diagnosis Procedure". • Sound signal circuits between BOSE speaker amp. and front tweeter RH. Refer to AV-283, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849513

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1601, U1603, U1609 or U160B detected?

YES >> Refer to AV-286, "Diagnosis Procedure" (front door speaker) or AV-283, "Diagnosis Procedure" (front tweeter).

NO >> Refer to GI-50, "Intermittent Incident".

U1627, U162F TWEETER

DTC Logic

INFOID:0000000012849514

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
F-INST L-TWEETER (OPEN, SHORT, GND-SHORT or VB-SHOR) [U1627]	Sound signal circuit malfunction between BOSE speaker amp. and instrument panel tweeter LH.	Sound signal circuits between BOSE speaker amp. and instrument panel tweeter LH. Refer to AV-280, "Diagnosis Procedure".
F-INST R-TWEETER (OPEN, SHORT, GND-SHORT or VB-SHOR) [U162F]	Sound signal circuit malfunction between BOSE speaker amp. and instrument panel tweeter RH.	Sound signal circuits between BOSE speaker amp. and instrument panel tweeter RH. Refer to AV-280, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849515

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1627 or U162F detected?

YES >> Refer to AV-280, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

U162A CENTER SPEAKER

DTC Logic

INFOID:0000000012849516

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
F-INST C-SQUAWK (OPEN, SHORT, GND-SHORT, or VB-SHORT) [U162A]	Sound signal circuit malfunction between BOSE speaker amp. and center speaker.	Sound signal circuits between BOSE speaker amp. and center speaker. Refer to AV-278, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849517

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U162A detected?

YES >> Refer to AV-278, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

U1684, U1687, U168C, U168F REAR DOOR SPEAKER/TWEETER

DTC Logic

INFOID:0000000012849518

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
2L-DOOR SPEAKER (OPEN, SHORT, GND-SHORT) [U1684] 2L-DOOR SPEAKER (VB-SHOR) [U1687]	Sound signal circuit malfunction between BOSE speaker amp. and rear door speaker LH.	Sound signal circuits between BOSE speaker amp. and rear door speaker LH. Refer to AV-289, "Diagnosis Procedure".
2R-DOOR SPEAKER (OPEN, SHORT, GND-SHORT) [U168C] 2R-DOOR SPEAKER (VB-SHOR) [U168F]	Sound signal circuit malfunction between BOSE speaker amp. and rear door speaker RH.	Sound signal circuits between BOSE speaker amp. and rear door speaker RH. Refer to AV-289, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849519

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1684, U1687, U168C or U168F detected?

YES >> Refer to AV-289, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

U175D WOOFER

DTC Logic

INFOID:0000000012849520

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
R-LUGGAGE L-WOOFER (OPEN, SHORT, GND-SHORT or VB-SHOR) [U175D]	Sound signal circuit malfunction between BOSE speaker amp. and subwoofer.	Sound signal circuits between BOSE speaker amp. and subwoofer. Refer to AV-295, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849521

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U175D detected?

YES >> Refer to AV-295, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

U176A, U1772 ROOF SPEAKER

DTC Logic

INFOID:0000000012849522

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
R-ROOF L-SQAWK (OPEN, SHORT, GND-SHORT or VB-SHOR) [U176A]	Sound signal circuit malfunction between BOSE speaker amp. and rear side speaker LH.	Sound signal circuits between BOSE speaker amp. and rear side speaker LH. Refer to AV-292, "Diagnosis Procedure".
R-ROOF R-SQAWK (OPEN, SHORT, GND-SHORT or VB-SHOR) [U1772]	Sound signal circuit malfunction between BOSE speaker amp. and rear side speaker RH.	Sound signal circuits between BOSE speaker amp. and rear side speaker RH. Refer to AV-292, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849523

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U176A or U1772 detected?

YES >> Refer to AV-292, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

B2720 CORNER SENSOR [RL]

DTC Logic

INFOID:0000000013600244

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR LEFT SIDE EXTERNAL SENSOR [B2720]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Rear sonar sensor LH outer.

Diagnosis Procedure

INFOID:0000000013600245

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK REAR SONAR SENSOR LH OUTER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and rear sonar sensor LH outer connector.
3. Check continuity between sonar control unit connector M70 and rear sonar sensor LH outer connector B455.

Sonar control unit		Rear sonar sensor LH outer		Continuity
Connector	Terminal	Connector	Terminal	
M70	22	B455	2	Yes
	14		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	22	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR SONAR SENSOR LH OUTER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	22	—	0V

Is the inspection result normal?

YES >> Replace rear sonar sensor LH outer. Refer to AV-353, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2721 CENTER SENSOR [RL]

DTC Logic

INFOID:0000000013600246

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR LEFT SIDE INTERNAL SENSOR [B2721]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Rear sonar sensor LH inner.

Diagnosis Procedure

INFOID:0000000013600247

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK REAR SONAR SENSOR LH INNER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and rear sonar sensor LH inner connector.
3. Check continuity between sonar control unit connector M70 and rear sonar sensor LH inner connector B457.

Sonar control unit		Rear sonar sensor LH inner		Continuity
Connector	Terminal	Connector	Terminal	
M70	21	B457	2	Yes
	14		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	21	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR SONAR SENSOR LH INNER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	21	—	0V

Is the inspection result normal?

YES >> Replace rear sonar sensor LH inner. Refer to AV-353, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2722 CENTER SENSOR [RR]

DTC Logic

INFOID:0000000013600248

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR RIGHT SIDE INTERNAL SENSOR [B2722]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Rear sonar sensor RH inner.

Diagnosis Procedure

INFOID:0000000013600249

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK REAR SONAR SENSOR RH INNER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and rear sonar sensor RH inner connector.
3. Check continuity between sonar control unit connector M70 and rear sonar sensor RH inner connector B458.

Sonar control unit		Rear sonar sensor RH inner		Continuity
Connector	Terminal	Connector	Terminal	
M70	9	B458	2	Yes
	14		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	9	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR SONAR SENSOR RH INNER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	9	—	0V

Is the inspection result normal?

YES >> Replace rear sonar sensor RH inner. Refer to AV-353, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2723 CORNER SENSOR [RR]

DTC Logic

INFOID:0000000013600250

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR RIGHT SIDE EXTERNAL SENSOR [B2723]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Rear sonar sensor RH outer.

Diagnosis Procedure

INFOID:0000000013600251

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK REAR SONAR SENSOR RH OUTER SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and rear sonar sensor RH outer connector.
3. Check continuity between sonar control unit connector M70 and rear sonar sensor RH outer connector B456.

Sonar control unit		Rear sonar sensor RH outer		Continuity
Connector	Terminal	Connector	Terminal	
M70	10	B456	2	Yes
	14		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	10	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR SONAR SENSOR RH OUTER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	10	—	0V

Is the inspection result normal?

YES >> Replace rear sonar sensor RH outer. Refer to AV-353, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2724 SONAR CONTROL UNIT

DTC Logic

INFOID:0000000013600252

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
ECU [B2724]	Sonar control module malfunction.	Replace sonar control module.

B2725 REAR BUZZER

DTC Logic

INFOID:0000000013600253

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR BUZZER [B2725]	• Buzzer is open or short circuited. • Buzzer malfunction.	• Harness or connectors. • Buzzer.

Diagnosis Procedure

INFOID:0000000013600254

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK SONAR BUZZER SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and sonar buzzer connector.
3. Check continuity between sonar control unit connector M70 and sonar buzzer connector B35.

Sonar control unit		Sonar buzzer		Continuity
Connector	Terminal	Connector	Terminal	
M70	20	B35	3	Yes

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	20	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK SONAR BUZZER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	20	—	0V

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK SONAR BUZZER SIGNAL CIRCUIT SHORT TO BUZZER POWER

1. Turn ignition switch OFF.
2. Check continuity between sonar control unit connector M70 terminals.

Sonar control unit connector M70		Continuity
Terminal	Terminal	
19	20	No

Is the inspection result normal?

YES >> Replace sonar buzzer. Refer to AV-355, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2729 CORNER SENSOR [FL]

DTC Logic

INFOID:0000000013600255

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT LEFT SIDE EXTERNAL SENSOR [B2729]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Front sonar sensor LH outer.

Diagnosis Procedure

INFOID:0000000013600256

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK FRONT SONAR SENSOR LH OUTER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and front sonar sensor LH outer connector.
3. Check continuity between sonar control unit connector M70 and front sonar sensor LH outer connector E307.

Sonar control unit		Front sonar sensor LH outer		Continuity
Connector	Terminal	Connector	Terminal	
M70	3	E307	2	Yes
	13		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	3	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT SONAR SENSOR LH OUTER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	3	—	0V

Is the inspection result normal?

YES >> Replace front sonar sensor LH outer. Refer to AV-353, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B272A CENTER SENSOR [FL]

DTC Logic

INFOID:0000000013600257

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT LEFT SIDE INTERNAL SENSOR [B272A]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Front sonar sensor LH inner.

Diagnosis Procedure

INFOID:0000000013600258

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK FRONT SONAR SENSOR LH INNER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector M70 and front sonar sensor LH inner connector E309.
3. Check continuity between sonar control unit connector M70 and front sonar sensor LH inner connector E309.

Sonar control unit		Front sonar sensor LH inner		Continuity
Connector	Terminal	Connector	Terminal	
M70	2	E309	2	Yes
	13		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	2	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT SONAR SENSOR LH INNER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	2	—	0V

Is the inspection result normal?

YES >> Replace front sonar sensor LH inner. Refer to AV-353, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B272B CENTER SENSOR [FR]

DTC Logic

INFOID:0000000013600259

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT RIGHT SIDE INTERNAL SENSOR [B272B]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Front sonar sensor RH inner.

Diagnosis Procedure

INFOID:0000000013600260

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK FRONT SONAR SENSOR RH INNER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector M70 and front sonar sensor RH inner connector E310.
3. Check continuity between sonar control unit connector M70 and front sonar sensor RH inner connector E310.

Sonar control unit		Front sonar sensor RH inner		Continuity
Connector	Terminal	Connector	Terminal	
M70	1	E310	2	Yes
	13		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	1	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT SONAR SENSOR RH INNER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	1	—	0V

Is the inspection result normal?

YES >> Replace front sonar sensor RH inner. Refer to AV-353, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B272C CORNER SENSOR [FR]

DTC Logic

INFOID:0000000013600261

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT RIGHT SIDE EXTERNAL SENSOR [B272C]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Front sonar sensor RH outer.

Diagnosis Procedure

INFOID:0000000013600262

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK FRONT SONAR SENSOR RH OUTER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and front sonar sensor RH outer connector.
3. Check continuity between sonar control unit connector M70 and front sonar sensor RH outer connector E308.

Sonar control unit		Front sonar sensor RH outer		Continuity
Connector	Terminal	Connector	Terminal	
M70	4	E308	2	Yes
	13		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	4	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT SONAR SENSOR RH OUTER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	4	—	0V

Is the inspection result normal?

YES >> Replace front sonar sensor RH outer. Refer to AV-353, "Removal and Installation".
NO >> Repair or replace harness or connectors.

POWER SUPPLY AND GROUND CIRCUIT

AV CONTROL UNIT

AV CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012849524

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
29	Ignition signal	29 (5A)
39	ACC power supply	65 (10A)
51	Battery power supply	15 (15A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connectors M192 and M193.
3. Check voltage between AV control unit connectors and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M192	29	—	Ignition switch: ON	Battery voltage
M193	39		Ignition switch: ACC	
	51		Ignition switch: OFF	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between AV control unit connector M193 terminal 52 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M193	52	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

DISPLAY UNIT

DISPLAY UNIT : Diagnosis Procedure

INFOID:0000000012849525

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK INVERTER VCC AND SIGNAL VCC (POWER SUPPLY) CIRCUIT 1

Check voltage between display unit harness connector M93 terminals 2, 3 and ground.

Display unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M93	2	—	Ignition switch: ACC	9.0 V
	3			

Is the inspection result normal?

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

2. CHECK INVERTER VCC AND SIGNAL VCC (POWER SUPPLY) CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M194 and display unit connector.
3. Check continuity between AV control unit connector M194 terminals 64, 76 and display unit connector M93 terminals 3, 2.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M194	64	M93	3	Yes
	76		2	

4. Check continuity between AV control unit connector M194 terminals 64, 76 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M194	64	—	No
	76		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3. CHECK INVERTER VCC AND SIGNAL VCC (POWER SUPPLY) CIRCUIT 2

1. Connect the AV control unit connector M194.
2. Check voltage between AV control unit connector M194 terminals 64, 76 and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
(+)		(–)		
Connector	Terminal			
M194	64	—	Ignition switch: ACC	9.0 V
	76			

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

4. CHECK INVERTER GROUND AND SIGNAL GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M194 and display unit connector.
3. Check continuity between AV control unit connector M194 terminals 63, 75 and display unit connector M93 terminals 14, 13.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M194	63	M93	14	Yes
	75		13	

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5.CHECK DISPLAY UNIT GROUND CIRCUIT

Check continuity between display unit connector M93 terminal 1 and ground.

Display unit		Ground	Continuity
Connector	Terminal		
M93	1	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

BOSE AMP.

BOSE AMP. : Diagnosis Procedure

INFOID:0000000012849526

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
10	Battery power supply	11 (15A)
11		12 (15A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Disconnect BOSE speaker amp. connector B129.
2. Check voltage between BOSE speaker amp. connector B129 and ground.

BOSE speaker amp.		Ground	Voltage (Approx.)
Connector	Terminal		
B129	10	—	Battery voltage
	11		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between BOSE speaker amp. connector B129 and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B129	7	—	Yes
	12		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

SATELLITE RADIO TUNER

SATELLITE RADIO TUNER : Diagnosis Procedure

INFOID:0000000012849527

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
32	Battery power supply	15 (15A)
36	ACC power supply	65 (10A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect satellite radio tuner connector B2.
3. Check voltage between satellite radio tuner connector B2 terminal 32, 36 and ground.

Satellite radio tuner		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
B2	32	—	Ignition switch: OFF	Battery voltage
	36		Ignition switch: ACC	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between satellite radio tuner connector B2 terminal 35 and ground.

Satellite radio tuner		Ground	Continuity
Connector	Terminal		
B2	35	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

BLUETOOTH® CONTROL UNIT

BLUETOOTH® CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012849528

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
1	Battery power supply	15 (15A)
2	ACC power supply	65 (10A)
3	Ignition signal	30 (10A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Bluetooth® control unit connector B3.
3. Check voltage between Bluetooth® control unit connector B3 and ground.

Bluetooth® control unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
B3	1	—	Ignition switch: OFF	Battery voltage
	2		Ignition switch: ACC	
	3		Ignition switch: ON	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between Bluetooth® control unit connector B3 and ground.

Bluetooth® control unit		Ground	Continuity
Connector	Terminal		
B3	4	—	Yes
	20		
	23		
	24		
	27		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

MULTIFUNCTION SWITCH

MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:0000000012849529

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
3	ACC power supply	65 (10A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector.
3. Check voltage between multifunction switch connector M98 terminal 3 and ground.

Multifunction switch		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M98	3	—	Ignition switch: ACC	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK CONTROL UNIT GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M192.
3. Check continuity between multifunction switch connector M98 terminal 9 and AV control unit connector M192 terminal 10.

Multifunction switch		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M98	9	M192	10	Yes

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness or connectors.

4.CHECK SWITCH GROUND CIRCUIT

Check continuity between multifunction switch connector M98 terminal 1 and ground.

Multifunction switch		Ground	Continuity
Connector	Terminal		
M98	1	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

SONAR CONTROL UNIT

SONAR CONTROL UNIT : Diagnosis Procedure

INFOID:0000000013600443

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
12	Ignition signal	29 (5A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector M70.
3. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M70	12	—	Ignition switch: ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	15	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

CENTER SPEAKER

Diagnosis Procedure

INFOID:0000000012849530

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK CENTER SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B130 and center speaker connector.
2. Check continuity between BOSE speaker amp. connector B130 and center speaker connector M110.

BOSE speaker amp.		Center speaker		Continuity
Connector	Terminal	Connector	Terminal	
B130	16	M110	1	Yes
	17		2	

3. Check continuity between BOSE speaker amp. connector B130 and ground.

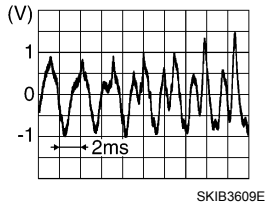
BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B130	16	—	No
	17		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK CENTER SPEAKER SIGNAL

1. Connect BOSE speaker amp. connector B130 and center speaker connector M110.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B130.

BOSE speaker amp. connector B130		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
16	17	Audio signal output	

SKIB3609E

Is the inspection result normal?

YES >> Replace center speaker. Refer to AV-342, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M197 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M197	113	B130	35	Yes
	119		36	
	109		33	
	115		34	

3. Check continuity between AV control unit connector M197 and ground.

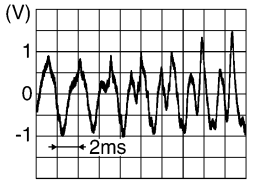
AV control unit		Ground	Continuity
Connector	Terminal		
M197	113	—	No
	119		
	109		
	115		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M197.

AV control unit connector M197		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
113	119	Audio signal output	
109	115		

SKIB3609E

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-338, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

INSTRUMENT PANEL SPEAKER/TWEETER

Diagnosis Procedure

INFOID:0000000012849531

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK INSTRUMENT PANEL TWEETER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector and suspect instrument panel tweeter connector.
2. Check continuity between BOSE speaker amp. connector and suspect instrument panel tweeter connector.

BOSE speaker amp.		Instrument panel tweeter		Continuity
Connector	Terminal	Connector	Terminal	
B130	29	M62 (LH)	1	Yes
	30		2	
B129	4	M73 (RH)	1	
	3		2	

3. Check continuity between BOSE speaker amp. connector and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B130	29	—	No
	30		
B129	4		
	3		

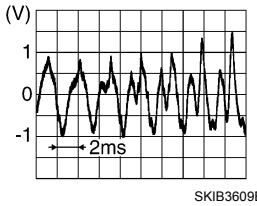
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK INSTRUMENT PANEL TWEETER SIGNAL

1. Connect BOSE speaker amp. connector and suspect instrument panel tweeter connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector.

BOSE speaker amp.		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

29	30	Audio signal output	 SKIB3609E
4	3		

Is the inspection result normal?

YES >> Replace instrument panel tweeter. Refer to AV-341, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M197 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M197	113	B130	35	Yes
	119		36	
	109		33	
	115		34	

3. Check continuity between AV control unit connector M197 and ground.

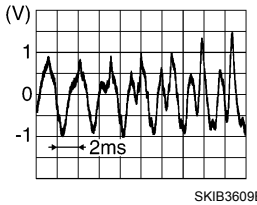
AV control unit		Ground	Continuity
Connector	Terminal		
M197	113	—	No
	119		
	109		
	115		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M197.

AV control unit connector M197		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
113	119	Audio signal output	 SKIB3609E
109	115		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-338, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

FRONT TWEETER

Diagnosis Procedure

INFOID:0000000012849532

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK FRONT TWEETER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B130 and suspect front tweeter connector.
2. Check continuity between BOSE speaker amp. connector B130 and suspect front door speaker connector.

BOSE speaker amp.		Front tweeter		Continuity
Connector	Terminal	Connector	Terminal	
B130	18	M109 (LH)	1	Yes
	19		2	
	31	M111 (RH)	1	
	32		2	

3. Check continuity between BOSE speaker amp. connector B130 and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B130	18	—	No
	19		
	31		
	32		

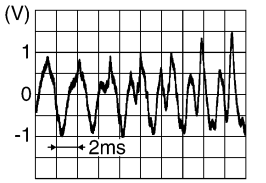
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK FRONT TWEETER SIGNAL

1. Connect BOSE speaker amp. connector B130 and suspect front tweeter connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B130.

BOSE speaker amp. connector B130		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

18	19	Audio signal output	 SKIB3609E
31	32		

Is the inspection result normal?

YES >> Replace front tweeter. Refer to AV-340, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M197 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M197	113	B130	35	Yes
	119		36	
	109		33	
	115		34	

3. Check continuity between AV control unit connector M197 and ground.

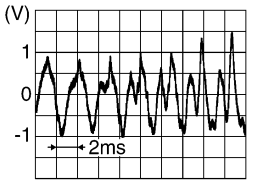
AV control unit		Ground	Continuity
Connector	Terminal		
M197	113	—	No
	119		
	109		
	115		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M197.

AV control unit connector M197		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
113	119	Audio signal output	 SKIB3609E
109	115		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-338, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

FRONT DOOR SPEAKER

Diagnosis Procedure

INFOID:0000000012849533

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK FRONT DOOR SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B130 and suspect front door speaker connector.
2. Check continuity between BOSE speaker amp. connector B130 and suspect front door speaker connector.

BOSE speaker amp.		Front door speaker		Continuity
Connector	Terminal	Connector	Terminal	
B130	18	D12 (LH)	1	Yes
	19		2	
	31	D112 (RH)	1	
	32		2	

3. Check continuity between BOSE speaker amp. connector B130 and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B130	18	—	No
	19		
	31		
	32		

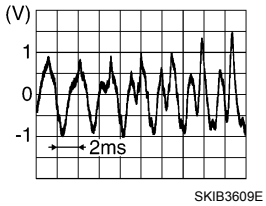
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK FRONT DOOR SPEAKER SIGNAL

1. Connect BOSE speaker amp. connector B130 and suspect front door speaker connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B130.

BOSE speaker amp. connector B130		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

18	19	Audio signal output	 SKIB3609E
31	32		

Is the inspection result normal?

YES >> Replace front door speaker. Refer to AV-339, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M197 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M197	113	B130	35	Yes
	119		36	
	109		33	
	115		34	

3. Check continuity between AV control unit connector M197 and ground.

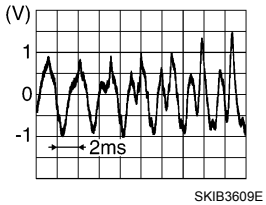
AV control unit		Ground	Continuity
Connector	Terminal		
M197	113	—	No
	119		
	109		
	115		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M197.

AV control unit connector M197		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
113	119	Audio signal output	 SKIB3609E
109	115		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-338, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

REAR DOOR SPEAKER

Diagnosis Procedure

INFOID:0000000012849534

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK REAR DOOR SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connectors and suspect rear door speaker connector.
2. Check continuity between BOSE speaker amp. connectors and suspect rear door speaker connector.

BOSE speaker amp.		Rear door speaker		Continuity
Connector	Terminal	Connector	Terminal	
B130	28	D207 (LH)	1	Yes
	15		2	
B129	14	D307 (RH)	1	
	9		2	

3. Check continuity between BOSE speaker amp. connectors and ground.

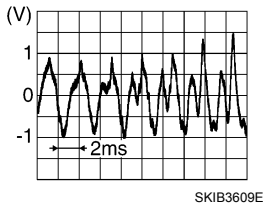
BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B130	28	—	No
	15		
B129	14		
	9		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK REAR DOOR SPEAKER SIGNAL

1. Connect BOSE speaker amp. connectors and suspect rear door speaker connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connectors.

BOSE speaker amp.			Condition	Reference value
Connector	(+)	(−)		
	Terminal	Terminal		
B130	28	15	Audio signal output	
B129	14	9		

SKIB3609E

Is the inspection result normal?

YES >> Replace rear door speaker. Refer to AV-343, "Removal and Installation".
NO >> GO TO 3.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M197 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M197	112	B130	24	Yes
	118		23	
	108		26	
	114		25	

3. Check continuity between AV control unit connector M197 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M197	112	—	No
	118		
	108		
	114		

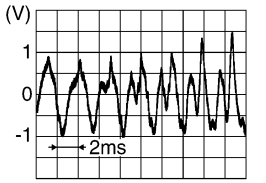
Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M197.

AV control unit connector M197		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

112	118	Audio signal output	 SKIB3609E
108	114		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-338, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

REAR SPEAKER

Diagnosis Procedure

INFOID:0000000012849535

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK REAR SIDE SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B129 and suspect rear side speaker connector.
2. Check continuity between BOSE speaker amp. connector B129 and suspect rear side speaker connector.

BOSE speaker amp.		Rear side speaker		Continuity
Connector	Terminal	Connector	Terminal	
B129	1	B1 (LH)	1	Yes
		B153 (RH)	1	
	2	B1 (LH)	2	
		B153 (RH)	2	

3. Check continuity between BOSE speaker amp. connector B129 and ground.

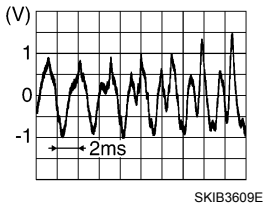
BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B129	1	—	No
	2		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK REAR SIDE SPEAKER SIGNAL

1. Connect BOSE speaker amp. connector B129 and suspect rear side speaker connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B129.

BOSE speaker amp. connector B129		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
1	2	Audio signal output	

SKIB3609E

Is the inspection result normal?

YES >> Replace rear side speaker. Refer to AV-344, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M197 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M197	112	B130	24	Yes
	118		23	
	108		26	
	114		25	

3. Check continuity between AV control unit connector M197 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M197	112	—	No
	118		
	108		
	114		

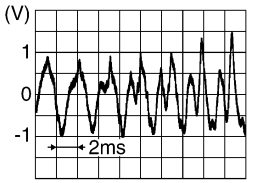
Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M197.

AV control unit connector M197		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

112	118	Audio signal output	 SKIB3609E
108	114		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-338, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

SUBWOOFER

Diagnosis Procedure

INFOID:0000000012849536

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and subwoofer connectors for the following:
- Proper connection
- Damage
- Disconnected or looses terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminal and connector.

2.CHECK SUBWOOFER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector and subwoofer connector.
2. Check continuity between BOSE speaker amp. connector and subwoofer connector.

BOSE speaker amp.		Subwoofer		Continuity
Connector	Terminal	Connector	Terminal	
B129	8	B73	1	Yes
	13		2	
	6		3	
	5		4	

3. Check continuity between BOSE speaker amp. connector and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B129	8	—	No
	13		
	6		
	5		

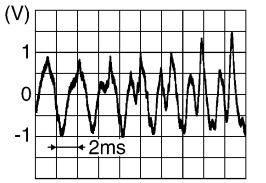
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK SUBWOOFER SIGNAL

1. Connect BOSE speaker amp. connector and subwoofer connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check the signal between the terminals of BOSE speaker amp. connector.

BOSE speaker amp. connector		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

13	8	Audio signal output	 SKIB3609E
5	6		

Is the inspection result normal?

YES >> Replace subwoofer. Refer to AV-345, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M197 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M197	112	B130	24	Yes
	118		23	
	108		26	
	114		25	

3. Check continuity between AV control unit connector M197 and ground.

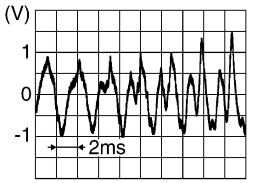
AV control unit		Ground	Continuity
Connector	Terminal		
M197	112	—	No
	118		
	108		
	114		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M197 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M197.

AV control unit connector M197		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
112	118	Audio signal output	 SKIB3609E
108	114		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-338, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

FRONT AUXILIARY INPUT JACK AUDIO SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849537

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK AUX SOUND SIGNAL CIRCUIT CONTINUITY

1. Turn ignition OFF.
2. Disconnect AV control unit connector M192 and front auxiliary input jacks connector.
3. Check continuity between AV control unit connector M192 and front auxiliary input jacks connector M205.

AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M192	20	M205	1	Yes
	21		3	

4. Check continuity between AV control unit connector M192 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M192	20	—	No
	21		

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AUX SOUND SIGNAL GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M192 and front auxiliary input jacks connector M205.

AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M192	22	M205	2	Yes

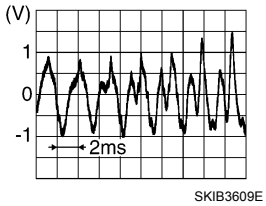
Is inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK AUX SOUND SIGNAL

1. Connect AV control unit connector M192 and front auxiliary input jacks connector.
2. Turn ignition switch to ACC.
3. Select AUX mode.
4. Check signal between terminals of AV control unit connector M192.

AV control unit connector M192		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

20	22	AUX mode selected	 SKIB3609E
21	22		

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-332, "Removal and Installation".
NO >> Replace front auxiliary input jacks. Refer to AV-348, "Removal and Installation".

SATELLITE AUDIO SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849538

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK SATELLITE SOUND SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M196 and satellite radio tuner connector B2.
3. Check continuity between AV control unit connector M196 and satellite radio tuner connector B2.

AV control unit		Satellite radio tuner		Continuity
Connector	Terminals	Connector	Terminals	
M196	94	B2	22	Yes
	96		24	

4. Check continuity between AV control unit connector M196 and ground.

AV control unit		Ground	Continuity
Connector	Terminals		
M196	94		No
	96		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK SATELLITE SOUND SIGNAL GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M196 and satellite radio tuner connector B2.

AV control unit		Satellite radio tuner		Continuity
Connector	Terminals	Connector	Terminals	
M196	93	B2	21	Yes
	95		23	

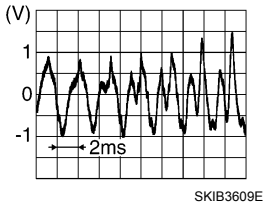
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK SATELLITE SOUND SIGNAL

1. Connect AV control unit connector M196 and satellite radio tuner connector B2.
2. Turn ignition switch to ACC.
3. Select satellite radio mode.
4. Check signal between terminals of AV control unit connector M196.

AV control unit connector M196		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

94	93	Satellite radio mode selected	 SKIB3609E
96	95		

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-332, "Removal and Installation".
NO >> Replace satellite radio tuner. Refer to AV-351, "Removal and Installation".

BLUETOOTH® VOICE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849539

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK BLUETOOTH® VOICE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M192 and Bluetooth® control unit connector B3.
3. Check continuity between AV control unit connector M192 terminal 5 and Bluetooth® control unit connector B3 terminal 9.

AV control unit		Bluetooth® control unit		Continuity
Connector	Terminal	Connector	Terminal	
M192	5	B3	9	Yes

4. Check continuity between AV control unit connector M192 terminal 5 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M192	5	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK BLUETOOTH® VOICE SIGNAL GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M192 terminal 4 and Bluetooth® control unit connector B3 terminal 10.

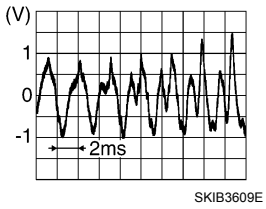
AV control unit		Bluetooth® control unit		Continuity
Connector	Terminal	Connector	Terminal	
M192	4	B3	10	Yes

Is inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK BLUETOOTH® VOICE SIGNAL

1. Connect AV control unit connector M192 and Bluetooth® control unit connector B3.
2. Turn ignition switch to ACC.
3. Press switch.
4. Check signal between terminals of AV control unit connector M192.

AV control unit connector M192		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
5	4	During voice guide output with switch pressed.	

SKIB3609E

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-332, "Removal and Installation".
NO >> Replace Bluetooth® control unit. Refer to AV-349, "Removal and Installation".

RGB (R: RED) SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849540

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

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

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M194 and display unit connector.
3. Check continuity between AV control unit connector M194 terminal 57 and display unit connector M93 terminal 17.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M194	57	M93	17	Yes

4. Check continuity between AV control unit connector M194 terminal 57 and ground.

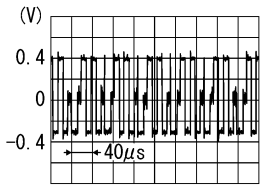
AV control unit		Ground	Continuity
Connector	Terminal		
M194	57		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RGB (R: RED) SIGNAL

1. Connect AV control unit connector M194 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 17 and ground.

Display unit (+)		Ground (−)	Condition	Reference value
Connector	Terminal			
M93	17	—	“Color Spectrum Bar” on DISPLAY DIAGNOSIS screen.	

SKIB2238J

Is inspection result normal?

YES >> Replace display unit. Refer to AV-337, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

RGB (G: GREEN) SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849541

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

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

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M194 and display unit connector.
3. Check continuity between AV control unit connector M194 terminal 56 and display unit connector M93 terminal 6.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M194	56	M93	6	Yes

4. Check continuity between AV control unit connector M194 terminal 56 and ground.

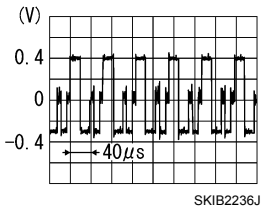
AV control unit		Ground	Continuity
Connector	Terminal		
M194	56		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RGB (G: GREEN) SIGNAL

1. Connect AV control unit connector M194 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 6 and ground.

Display unit (+)		Ground (−)	Condition	Reference value
Connector	Terminal			
M93	6	—	"Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	

SKIB2236J

Is inspection result normal?

YES >> Replace display unit. Refer to AV-337, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

RGB (B: BLUE) SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849542

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

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

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M194 and display unit connector.
3. Check continuity between AV control unit connector M194 terminal 55 and display unit connector M93 terminal 18.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M194	55	M93	18	Yes

4. Check continuity between AV control unit connector M194 terminal 55 and ground.

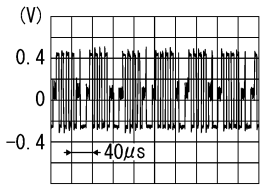
AV control unit		Ground	Continuity
Connector	Terminal		
M194	55		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RGB (B: BLUE) SIGNAL

1. Connect AV control unit connector M194 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 18 and ground.

Display unit		Ground	Condition	Reference value
(+)		(−)		
Connector	Terminal			
M93	18	—	“Color Spectrum Bar” on DISPLAY DIAGNOSIS screen.	

SKIB2237J

Is inspection result normal?

YES >> Replace display unit. Refer to AV-337, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

RGB SYNCHRONIZING SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849543

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK RGB SYNCHRONIZING SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M194 and display unit connector.
3. Check continuity between AV control unit connector M194 terminal 58 and display unit connector M93 terminal 19.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M194	58	M93	19	Yes

4. Check continuity between AV control unit connector M194 terminal 58 and ground.

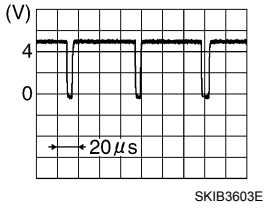
AV control unit		Ground	Continuity
Connector	Terminal		
M194	58		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RGB SYNCHRONIZING SIGNAL

1. Connect AV control unit connector M194 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 19 and ground.

Display unit		Ground	Reference value
(+)		(−)	
Connector	Terminal		
M93	19	—	

SKIB3603E

Is inspection result normal?

YES >> Replace display unit. Refer to AV-337, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

RGB AREA (YS) SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849544

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK RGB AREA (YS) SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M194 and display unit connector.
3. Check continuity between AV control unit connector M194 terminal 60 and display unit connector M93 terminal 9.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M194	60	M93	9	Yes

4. Check continuity between AV control unit connector M194 terminal 60 and ground.

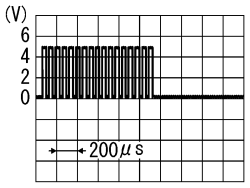
AV control unit		Ground	Continuity
Connector	Terminal		
M194	60		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RGB AREA (YS) SIGNAL

1. Connect AV control unit connector M194 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 9 and ground.

Display unit		Ground	Condition	Reference value
(+)		(−)		
Connector	Terminal			
M93	9	—	RGB image displayed.	5.0 V
			AUX image displayed.	

PKIB4948J

Is inspection result normal?

YES >> Replace display unit. Refer to AV-337, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849545

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M194 and display unit connector.
3. Check continuity between AV control unit connector M194 terminal 62 and display unit connector M93 terminal 8.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M194	62	M93	8	Yes

4. Check continuity between AV control unit connector M194 terminal 62 and ground.

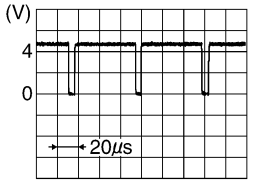
AV control unit		Ground	Continuity
Connector	Terminal		
M194	62		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

1. Connect AV control unit connector M194 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 8 and ground.

Display unit		Ground	Reference value
(+)		(−)	
Connector	Terminal		
M93	8	—	

SKIB3601E

Is inspection result normal?

YES >> Replace AV control unit. Refer to AV-332, "Removal and Installation".
NO >> Replace display unit. Refer to AV-337, "Removal and Installation".

VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849546

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M194 and display unit connector.
3. Check continuity between AV control unit connector M194 terminal 74 and display unit connector M93 terminal 20.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M194	74	M93	20	Yes

4. Check continuity between AV control unit connector M194 terminal 74 and ground.

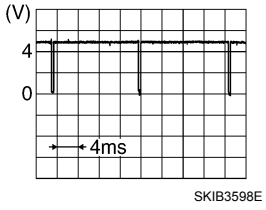
AV control unit		Ground	Continuity
Connector	Terminal		
M194	74		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

1. Connect AV control unit connector M194 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 20 and ground.

Display unit		Ground	Reference value
(+)		(−)	
Connector	Terminal		
M93	20	—	

SKIB3598E

Is inspection result normal?

YES >> Replace AV control unit. Refer to AV-332, "Removal and Installation".
NO >> Replace display unit. Refer to AV-337, "Removal and Installation".

COMPOSITE IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849547

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK COMPOSITE IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M194 and display unit connector.
3. Check continuity between AV control unit connector M194 terminal 53 and display unit connector M93 terminal 15.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M194	53	M93	15	Yes

4. Check continuity between AV control unit connector M194 terminal 53 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M194	53		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMPOSITE IMAGE SIGNAL GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M194 terminal 54 and display unit connector M93 terminal 4.

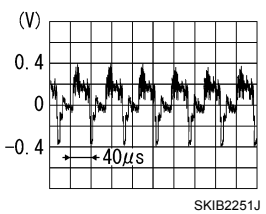
AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M194	54	M93	4	Yes

Is inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK COMPOSITE IMAGE SIGNAL

1. Connect AV control unit connector M194 and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit connector M93 terminal 15 and ground.

Display unit		Ground	Condition	Reference value
(+)		(−)		
Connector	Terminal			
M93	15	—	Camera image displayed.	

SKIB2251J

Is inspection result normal?

YES >> Replace display unit. Refer to AV-337, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

AUX IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849548

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK AUX IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M195 and front auxiliary input jacks connector.
3. Check continuity between AV control unit connector M195 terminal 83 and front auxiliary input jacks connector M205 terminal 7.

AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M195	83	M205	7	Yes

4. Check continuity between AV control unit connector M195 terminal 83 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M195	83		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AUX IMAGE SIGNAL GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M195 and front auxiliary input jacks connector.
3. Check continuity between AV control unit connector M195 terminal 91 and front auxiliary input jacks connector M205 terminal 8.

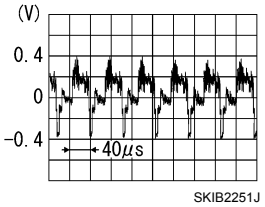
AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M195	91	M205	8	Yes

Is inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK AUX IMAGE SIGNAL

1. Connect AV control unit connector M195 and front auxiliary input jacks connector.
2. Turn ignition switch ON.
3. Check signal between front auxiliary input jacks connector M205 terminal 7 and ground.

Front auxiliary input jacks		Ground	Condition	Reference value
(+)		(−)		
Connector	Terminal			
M205	7	—	AUX image displayed.	

SKIB2251J

Is inspection result normal?

YES >> Replace AV control unit. Refer to AV-332, "Removal and Installation".
NO >> Replace front auxiliary input jacks. Refer to AV-348, "Removal and Installation".

CAMERA IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849549

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK REVERSE INPUT SIGNAL

1. Turn ignition switch ON.
2. Shift the selector lever to R (reverse).
3. Check voltage between AV control unit connector M192 and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
(+)		(−)		
Connector	Terminal			
M192	30	—	Selector lever in R (reverse)	Battery Voltage

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK CAMERA POWER SUPPLY CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M195 and rear view camera connector.
3. Check continuity between AV control unit connector M195 terminal 87 and rear view camera connector D504 terminal 1.

AV control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
M195	87	D504	1	Yes

4. Check continuity between AV control unit connector M195 terminal 87 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M195	87		No

Is inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK CAMERA POWER SUPPLY VOLTAGE

1. Connect AV control unit connector M195 and rear view camera connector.
2. Turn ignition switch ON.
3. Shift the selector lever to “R”.
4. Check voltage between AV control unit connector M195 terminal 87 and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
(+)		(−)		
Connector	Terminal			
M195	87	—	Selector lever is in “R”.	6.0 V

Is inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit. Refer to AV-332, "Removal and Installation".

4. CHECK CAMERA IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M195 and rear view camera connector.
3. Check continuity between AV control unit connector M195 terminal 82 and rear view camera connector D504 terminal 3.

AV control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
M195	82	D504	3	Yes

4. Check continuity between AV control unit connector M195 terminal 82 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M195	82		No

Is inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK CAMERA GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M195 terminal 88 and rear view camera connector D504 terminal 2.

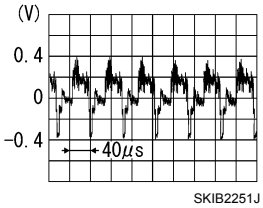
AV control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
M195	88	D504	2	Yes

Is inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace harness or connectors.

6. CHECK CAMERA IMAGE SIGNAL

1. Connect AV control unit connector M195 and rear view camera connector.
2. Turn ignition switch ON.
3. Shift the selector lever to “R”.
4. Check signal between AV control unit connector M195 terminal 82 and ground.

AV control unit		Ground	Condition	Reference value
(+)		(−)		
Connector	Terminal			
M195	82	—	Camera image displayed.	

SKIB2251J

Is inspection result normal?

YES >> Replace AV control unit. Refer to AV-332, "Removal and Installation".
NO >> Replace rear view camera. Refer to AV-346, "Removal and Installation".

DISK EJECT SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849550

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK DISK EJECT SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M192 and multifunction switch connector.
3. Check continuity between AV control unit connector M192 terminal 28 and multifunction switch connector M98 terminal 14.

AV control unit		Multifunction switch		Continuity
Connector	Terminal	Connector	Terminal	
M192	28	M98	14	Yes

4. Check continuity between AV control unit connector M192 terminal 28 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M192	28		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector M192 and multifunction switch connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector M192 terminal 28 and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
(+)		(–)		
Connector	Terminal			
M192	28	—	Pressing eject switch	0 V
			Except above	5.0 V

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-332, "Removal and Installation".
NO >> Replace multifunction switch. Refer to AV-334, "Removal and Installation".

MICROPHONE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849551

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK MICROPHONE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect Bluetooth® control unit connector B3 and microphone connector.
3. Check continuity between Bluetooth® control unit connector B3 terminals 7, 8, 29 and microphone connector R109 terminals 4, 3, 1.

Bluetooth® control unit		Microphone		Continuity
Connector	Terminal	Connector	Terminal	
B3	7	R109	4	Yes
	8		3	
	29		1	

4. Check continuity between Bluetooth® control unit connector B3 terminals 7, 8, 29 and ground.

Bluetooth® control unit		Ground	Continuity
Connector	Terminal		
B3	7	—	No
	8		
	29		

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK MICROPHONE VCC VOLTAGE

1. Connect Bluetooth® control unit connector B3.
2. Turn ignition switch ON.
3. Check voltage between terminals of Bluetooth® control unit connector B3.

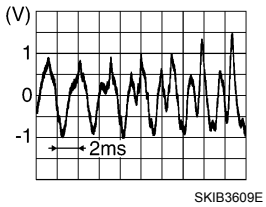
Bluetooth® control unit connector B3		Voltage (Approx.)
(+)	(−)	
Terminal	Terminal	
29	8	5.0 V

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace Bluetooth® control unit. Refer to AV-349, "Removal and Installation".

3.CHECK MICROPHONE SIGNAL

1. Connect microphone connector.
2. Check signal between terminals of Bluetooth® control unit connector B3.

Bluetooth® control unit connector B3		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
7	8	Speak into microphone.	

Is the inspection result normal?

YES >> Replace Bluetooth® control unit. Refer to AV-349, "Removal and Installation".
NO >> Replace microphone. Refer to AV-350, "Removal and Installation".

BLUETOOTH® CONTROL SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849552

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK CONTROL SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect Bluetooth® control unit connector B3.
3. Check continuity between Bluetooth® control unit connector B3 terminals 4, 20, 23, 24, 27 and ground.

Bluetooth® control unit		Ground	Continuity
Connector	Terminals		
B3	4	—	Yes
	20		
	23		
	24		
	27		

Is the inspection result normal?

YES >> Replace Bluetooth® control unit. Refer to AV-349, "Removal and Installation".
NO >> Repair or replace harness or connectors.

STEERING SWITCH

Diagnosis Procedure

INFOID:0000000012849553

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK STEERING SWITCH RESISTANCE

1. Turn ignition switch OFF.
2. Disconnect combination switch connector M149.
3. Check resistance between combination switch connector terminals.

Combination switch connector M149		Condition	Resistance Ω (Approx.)
Terminal	Terminal		
14	17	Depress SOURCE switch.	1
		Depress △ switch.	121
		Depress ▽ switch.	321
		Depress switch.	723
		Depress ENTER switch.	2023
15		Depress − switch.	1
		Depress + switch.	121
		Depress switch.	321
		Depress switch.	723
		Depress DISP switch.	2023

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace steering switch. Refer to AV-336, "Removal and Installation".

2.CHECK HARNESS BETWEEN COMBINATION SWITCH AND COMBINATION METER

1. Disconnect combination meter connector M24 and combination switch connector M30.
2. Check continuity between combination meter connector M24 and combination switch connector M30.

Combination meter		Combination switch		Continuity
Connector	Terminal	Connector	Terminal	
M24	3	M30	24	Yes
	24		33	
	4		31	

3. Check continuity between combination meter connector M24 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M24	3	—	No
	24		
	4		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3. CHECK COMBINATION SWITCH

Check continuity between combination switch connectors M30 and M149.

Combination switch				Continuity
Connector	Terminal	Connector	Terminal	
M30	24	M149	14	Yes
	31		15	
	33		17	

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace spiral cable. Refer to SR-15, "Removal and Installation".

4. CHECK HARNESS BETWEEN COMBINATION METER AND AV CONTROL UNIT

1. Disconnect AV control unit connector M193.
2. Check continuity between combination meter connector M24 and AV control unit connector M193.

Combination meter		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M24	14	M193	38	Yes
	15		48	
	16		47	

3. Check continuity between combination meter connector M24 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M24	14	—	No
	15		
	16		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK AV CONTROL UNIT VOLTAGE

1. Connect combination meter connector M24 and AV control unit connector M193.
2. Turn ignition switch ON.
3. Check voltage between terminals of AV control unit connector M193.

AV control unit connector M193		Voltage (Approx.)
(+)	(–)	
Terminal	Terminal	
38	47	5.0 V
48		

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-332, "Removal and Installation".
NO >> Replace combination meter. Refer to MWI-94, "Removal and Installation".

USB CONNECTOR

Diagnosis Procedure

INFOID:0000000012849554

Regarding Wiring Diagram information, refer to AV-201, "Wiring Diagram".

1.CHECK USB INTERFACE HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M55 and USB interface connector M209.
3. Check continuity between AV control unit connector M55 and USB interface connector M209.

AV control unit		USB interface		Continuity
Connector	Terminal	Connector	Terminal	
M55	138	M209	1	Yes
	137		2	
	140		3	
	139		4	
	141		5	

4. Check continuity between AV control unit connector M55 and ground.

AV control unit		—	Continuity
Connector	Terminal		
M55	137	Ground	No
	139		

Is the inspection result normal?

YES >> Replace the USB interface. Refer to AV-347, "Removal and Installation".
NO >> Repair or replace harness or connectors.

SYMPTOM DIAGNOSIS

MULTI AV SYSTEM

Symptom Table

INFOID:0000000012849555

RELATED TO AUDIO

Symptoms	Check items	Probable malfunction location
The disk cannot be removed.	AV control unit	Malfunction in AV control unit. Refer to AV-164, "On Board Diagnosis Function".

Symptoms	Check items	Probable malfunction location
No sound comes out or the level of the sound is low.	No sound from all speakers.	• Speaker circuit shorted to ground. Refer to AV-201, "Wiring Diagram". • Bose amp. ON signal circuit malfunction. Refer to AV-251, "Diagnosis Procedure". • Bose speaker amp. power supply and ground circuits malfunction. Refer to AV-273, "BOSE AMP. : Diagnosis Procedure".
	Only a certain speaker (front door speaker LH, front door speaker RH, front tweeter LH, front tweeter RH, instrument panel tweeter LH, instrument panel tweeter RH, center speaker, rear door speaker LH, rear door speaker RH, rear side speaker LH, rear side speaker RH, subwoofer) does not output sound.	• Poor connector connection of speaker. • Sound signal circuit malfunction between AV control unit and Bose speaker amp. Refer to: - AV-286, "Diagnosis Procedure" (front door speaker). - AV-283, "Diagnosis Procedure" (front tweeter). - AV-280, "Diagnosis Procedure" (instrument panel tweeter). - AV-278, "Diagnosis Procedure" (center speaker). - AV-289, "Diagnosis Procedure" (rear door speaker). - AV-292, "Diagnosis Procedure" (rear side speaker). - AV-295, "Diagnosis Procedure" (subwoofer). • Sound signal circuit malfunction between Bose speaker amp. and speaker. Refer to: - AV-286, "Diagnosis Procedure" (front door speaker). - AV-283, "Diagnosis Procedure" (front tweeter). - AV-280, "Diagnosis Procedure" (instrument panel tweeter). - AV-278, "Diagnosis Procedure" (center speaker). - AV-289, "Diagnosis Procedure" (rear door speaker). - AV-292, "Diagnosis Procedure" (rear side speaker). - AV-295, "Diagnosis Procedure" (subwoofer). • Malfunction in speaker. Refer to: - AV-339, "Removal and Installation" (front door speaker). - AV-340, "Removal and Installation" (front tweeter). - AV-341, "Removal and Installation" (instrument panel tweeter). - AV-342, "Removal and Installation" (center speaker). - AV-343, "Removal and Installation" (rear door speaker). - AV-344, "Removal and Installation" (rear side speaker). - AV-345, "Removal and Installation" (subwoofer). • Malfunction in AV control unit. Refer to AV-164, "On Board Diagnosis Function". • Malfunction in Bose speaker amp. Replace Bose speaker amp. Refer to AV-338, "Removal and Installation".

Symptoms	Check items	Probable malfunction location
Noise is mixed with audio.	Noise comes out from all speakers.	• Malfunction in AV control unit. Refer to AV-164, "On Board Diagnosis Function". • Malfunction in Bose speaker amp. Replace Bose speaker amp. Refer to AV-338, "Removal and Installation".
	Noise comes out only from a certain speaker (front door speaker LH, front door speaker RH, front tweeter LH, front tweeter RH, instrument panel tweeter LH, instrument panel tweeter RH, center speaker, rear door speaker LH, rear door speaker RH, rear side speaker LH, rear side speaker RH, subwoofer).	• Poor connector connection of speaker. • Sound signal circuit malfunction between AV control unit and Bose speaker amp. Refer to: - AV-286, "Diagnosis Procedure" (front door speaker). - AV-283, "Diagnosis Procedure" (front tweeter). - AV-280, "Diagnosis Procedure" (instrument panel tweeter). - AV-278, "Diagnosis Procedure" (center speaker). - AV-289, "Diagnosis Procedure" (rear door speaker). - AV-292, "Diagnosis Procedure" (rear side speaker). - AV-295, "Diagnosis Procedure" (subwoofer). • Sound signal circuit malfunction between Bose speaker amp. and speaker. Refer to: - AV-286, "Diagnosis Procedure" (front door speaker). - AV-283, "Diagnosis Procedure" (front tweeter). - AV-280, "Diagnosis Procedure" (instrument panel tweeter). - AV-278, "Diagnosis Procedure" (center speaker). - AV-289, "Diagnosis Procedure" (rear door speaker). - AV-292, "Diagnosis Procedure" (rear side speaker). - AV-295, "Diagnosis Procedure" (subwoofer). • Malfunction in speaker. • Poor Installation of speaker (e.g. backlash and looseness). Refer to: - AV-339, "Removal and Installation" (front door speaker). - AV-340, "Removal and Installation" (front tweeter). - AV-341, "Removal and Installation" (instrument panel tweeter). - AV-342, "Removal and Installation" (center speaker). - AV-343, "Removal and Installation" (rear door speaker). - AV-344, "Removal and Installation" (rear side speaker). - AV-345, "Removal and Installation" (subwoofer). • Malfunction in AV control unit. Refer to AV-164, "On Board Diagnosis Function". • Malfunction in Bose speaker amp. Replace Bose speaker amp. Refer to AV-338, "Removal and Installation".
	Noise is mixed with radio only (when the vehicle hits a bump or while driving over bad roads)	Poor connector connection of antenna or antenna feeder. Refer to AV-356, "Location of Antennas".

Symptoms	Check items	Probable malfunction location
No radio reception or poor reception.	• Other audio sounds are normal. • Any radio station cannot be received or poor reception is caused even after moving to a service area with good reception (e.g. a place with clear view and no obstacles generating external noises).	• Antenna amp. ON signal circuit malfunction. Refer to AV-251, "Diagnosis Procedure". • Poor connector connection of antenna or antenna feeder. Refer to AV-356, "Location of Antennas".
No satellite radio reception.	There is malfunction in the CONSULT self diagnosis result. Refer to AV-173, "CONSULT Function".	• Malfunction in antenna, antenna feeder or AV control unit. Perform DTC diagnosis. Refer to AV-173, "CONSULT Function". • Poor continuity in antenna feeder. • Poor connector connection of antenna or antenna feeder. Refer to AV-356, "Location of Antennas".
	There is no malfunction in the CONSULT self diagnosis result. Refer to AV-173, "CONSULT Function".	• Poor continuity in antenna feeder. • Poor connector connection of antenna or antenna feeder. • Loose satellite radio antenna mounting nut. Refer to AV-356, "Location of Antennas".
Buzz/rattle sound from speaker	The majority of buzz/rattle sounds are not indicative of an issue with the speaker, usually something nearby the speaker is causing the buzz/rattle.	Refer to "SQUEAK AND RATTLE TROUBLE DIAGNOSIS" in the appropriate interior trim section.

RELATED TO HANDS-FREE PHONE

- Before performing diagnosis, confirm that the cellular phone being used by the customer is compatible with the vehicle.
- It is possible that a malfunction is occurring due to a version change of the phone even though the phone is a compatible type. This can be confirmed by changing the cellular phone to another compatible type, and check that it operates normally. It is important to determine whether the cause of the malfunction is the vehicle or the cellular phone.

Check Compatibility

1. Make sure the customer's Bluetooth® related concern is understood.
2. Verify the customer's concern.
   NOTE:
   The customer's phone may be required, depending upon their concern.
3. Write down the customer's phone brand, model and service provider.
   NOTE:
   It is necessary to know the service provider. On occasion, a given phone may be on the approved list with one provider, but may not be on the approved list with other providers.
4. Go to "www.nissanusa.com/bluetooth/".

a. Using the website's search engine, find out if the customer's phone is on the approved list.

b. If the customer's phone is NOT on the approved list:
   Stop diagnosis here. The customer needs to obtain a Bluetooth® phone that is on the approved list before any further action.

c. If the feature related to the customer's concern shows as "N" (not compatible):
   Stop diagnosis here. If the customer still wants the feature to function, they will need to get an approved phone showing the feature as "Y" (compatible) in the "Basic Features".

d. If the feature related to the customer's concern shows as "Y" (compatible):
   Perform diagnosis as per the following table.

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.	Malfunction in AV control unit. Replace AV control unit. Refer to AV-332, "Removal and Installation".
Hands-free phone cannot be established.	• 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.	
The other party's voice cannot be heard by hands-free phone.	Check the "microphone speaker" in Inspection & Adjustment Mode if sound is heard.	
Originating sound is not heard by the other party with hands-free phone communication.	Sound operation function is normal.	
	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to AV-318, "Diagnosis Procedure".
The system cannot be operated.	Steering switch's +, −, and ↩ switch works, but 📞 does not work.	Steering switch malfunction. Replace steering switch. Refer to AV-336, "Removal and Installation".
	Steering switch's 📞, +, −, and ↩ switches do not work.	Steering switch signal circuit malfunction. Refer to AV-321, "Diagnosis Procedure".
	All steering switches do not work.	Steering switch ground circuit malfunction. Refer to AV-321, "Diagnosis Procedure".

RELATED TO REAR VIEW CAMERA

Symptoms	Check items	Probable malfunction location
Rear view camera is inoperative.	Reverse signal circuit malfunction.	Reverse signal circuit malfunction between BCM and AV control unit. Refer to AV-315, "Diagnosis Procedure".
	Camera image signal circuit malfunction.	Camera image signal circuit malfunction between rear view camera and AV control unit. Refer to AV-315, "Diagnosis Procedure".
	Rear view camera malfunction.	Replace rear view camera. Refer to AV-346, "Removal and Installation".

RELATED TO CAMERA ASSISTANCE SONAR

Symptoms	Check items	Probable malfunction location
Malfunction is detected in only 1 indicator (Always displayed in red).	Sonar sensor circuit malfunction.	Sonar sensor circuit malfunction between sonar sensor and sonar control unit. Refer to: • AV-268, "Diagnosis Procedure" (front LH inner). • AV-269, "Diagnosis Procedure" (front RH inner). • AV-267, "Diagnosis Procedure" (front LH outer). • AV-270, "Diagnosis Procedure" (front RH outer). • AV-261, "Diagnosis Procedure" (rear LH inner). • AV-262, "Diagnosis Procedure" (rear RH inner). • AV-260, "Diagnosis Procedure" (rear LH outer). • AV-263, "Diagnosis Procedure" (rear RH outer).
	Sonar sensor malfunction.	• Inspect if front licence plate (if equipped) is bent and obstructing the sensor area. • Malfunction in sonar sensor. Refer to AV-353, "Removal and Installation".

Symptoms	Check items	Probable malfunction location
Malfunction is detected in all 5 indicators (Always displayed in red).	Sonar control unit malfunction.	Sonar control unit power supply and ground circuits malfunction. Refer to AV-276, "SONAR CONTROL UNIT : Diagnosis Procedure".
	CAN communication malfunction.	CAN communication malfunction between sonar control unit and combination meter. Refer to LAN-28, "Trouble Diagnosis Flow Chart".

NORMAL OPERATING CONDITION

Description

INFOID:0000000012849556

RELATED TO NOISE

The majority of the audio concerns are the result of outside causes (bad CD, electromagnetic interference, etc.).
The following noise results from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources. It is not a malfunction.

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from the waves sent directly from the broadcast station arriving at the antenna at a different time from the waves which reflect off mountains or buildings.

The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check if noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment, and determine the cause.

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

Type of Noise and Possible Cause

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

RELATED TO HANDS-FREE PHONE

Symptom	Cause and Counter measure
Does not recognize cellular phone connection (No connection is displayed on the display at the guide).	Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module. Refer to “RELATED TO HANDS-FREE PHONE (Check Compatibility)” in AV-324, "Symptom Table".
Cannot use hands-free phone.	Customer will not be able to use a hands-free phone under the following conditions: • The vehicle is outside of the telephone service area. • The vehicle is in an area where it is difficult to receive radio waves; such as in a tunnel, in an underground parking garage, near a tall building or in a mountainous area. • The cellular phone is locked to prevent it from being dialed. **NOTE:** While a cellular phone is connected through the Bluetooth® wireless connection, the battery power of the cellular phone may discharge quicker than usual. The Bluetooth® Hands-Free Phone System cannot charge cellular phones.

Symptom	Cause and Counter measure
The other party's voice cannot be heard by hands-free phone.	When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person's voice during a call.
Poor sound quality.	Do not place the cellular phone in an area surrounded by metal or far away from the in-vehicle phone module to prevent tone quality degradation and wireless connection disruption.

RELATED TO SONAR

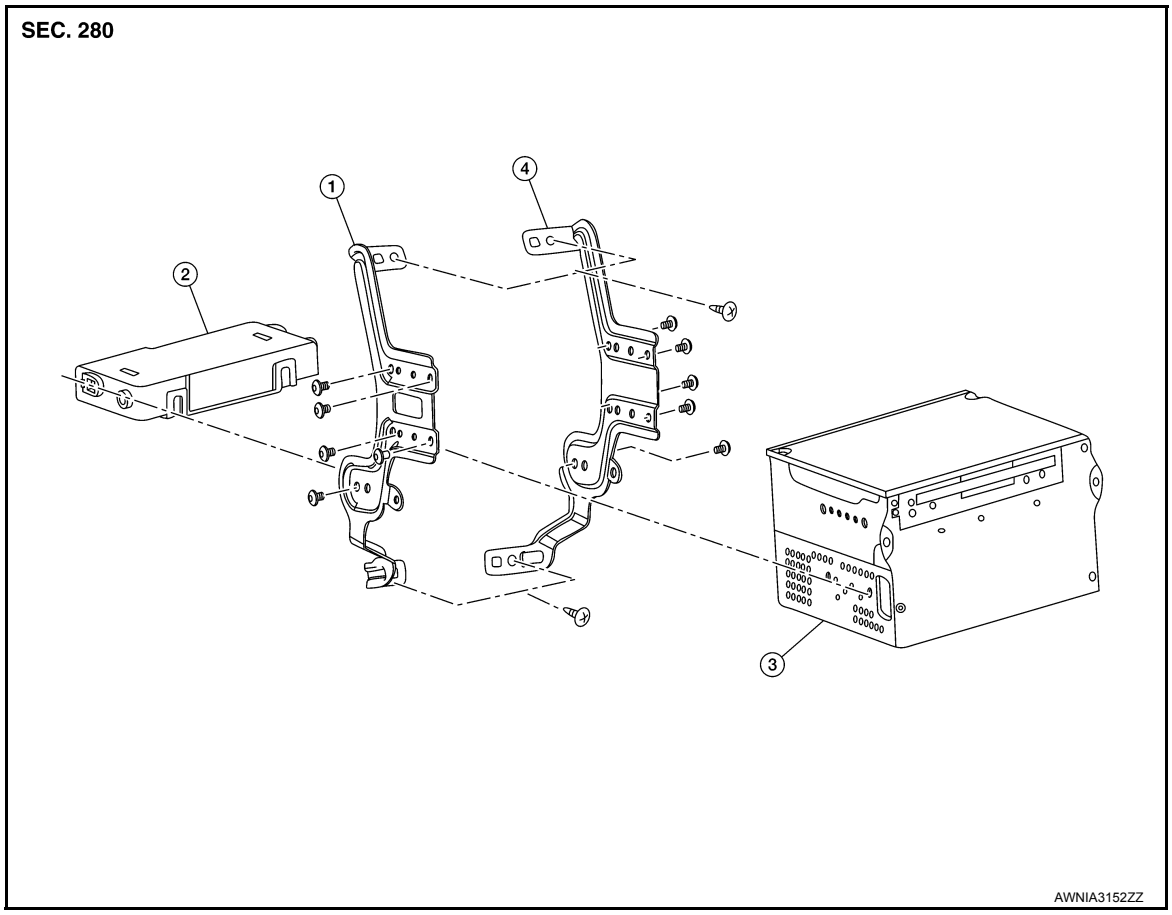
Symptom	Possible cause
Unstable object detection	• The vehicle is on a rough surface, such as stone or gravel. • When used in poor weather conditions, such as heavy snow/rain strong wind. • When subjected to an ultrasonic noise generated from exhaust muffler or brakes. • When left standing in the hot sun or in a cold climate. • When the surface of the sensor is frozen or covered with snow/dirt/moisture. • When a retrofitted xenon lamp, lighted license plate, or harness is close to the sensor body or sensor harness. • When subjected to loop coil noises generated from a vehicle detector placed at an intersection or coin parking area. • When front license plate (if equipped) is bent and obstructing the sensor detection area.
Object undetectable	• Air-containing objects, such as cloth, cotton, glass wool, dust, and snow. • Thin objects, such as rope, chain and wire. • Smooth-faced objects placed in a slanting direction. • Fast-moving small animals. • A corner of an angular object. **NOTE:** If the sensor detection part is scratched, obstacles cannot be detected.

REMOVAL AND INSTALLATION

AV CONTROL UNIT

Exploded View

INFOID:0000000012849557



1. AV control unit bracket (LH)
2. A/C auto amp.
3. AV control unit
4. AV control unit bracket (RH)

Removal and Installation

INFOID:0000000012849558

REMOVAL

CAUTION:

- **Remove battery terminal and AV control unit after a lapse of 30 seconds or more after turning the ignition switch OFF.**
- **Before replacing AV control unit, perform "READ CONFIGURATION" to save current vehicle specification. Refer to AV-236, "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description".**

NOTE:

After the ignition switch is turned OFF, the AV control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

1. Disconnect the negative battery terminal. Refer to PG-147, "Removal and Installation".
2. Remove cluster lid C upper. Refer to IP-23, "CLUSTER LID C UPPER : Removal and Installation".
3. Remove the screws, then pull out the AV control unit.
4. Disconnect the harness connectors from the AV control unit and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **When replacing AV control unit, perform "WRITE CONFIGURATION". Refer to AV-77, "CONFIGURATION (AV CONTROL UNIT) : Description".**

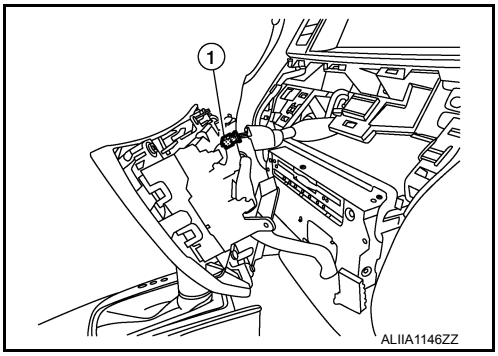
MULTIFUNCTION SWITCH

Removal and Installation

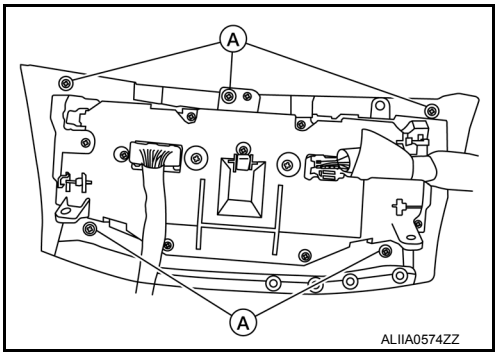
INFOID:0000000013522461

REMOVAL

1. Remove preset switch. Refer to AV-335, "Removal and Installation".
2. Remove screws securing multifunction switch.
3. Release pawls and detach multifunction switch using suitable tool.
4. Disconnect harness connector (1) from multifunction switch.



5. Remove multifunction switch from instrument panel assembly.
6. Remove screws (A) securing multifunction switch.



INSTALLATION

Installation is in the reverse order of removal.

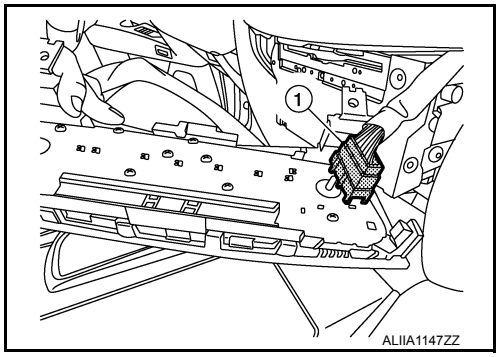
PRESET SWITCH

Removal and Installation

INFOID:0000000013522462

REMOVAL

1. Remove cluster lid C lower. Refer to IP-22, "CLUSTER LID C LOWER : Removal and Installation".
2. Remove cluster lid C. Refer to IP-22, "CLUSTER LID C : Removal and Installation".
3. Remove preset switch lower screws.
4. Release pawls and detach preset switch from instrument panel assembly using suitable tool.
5. Disconnect harness connector (1) from preset switch.



6. Remove preset switch from instrument panel assembly.

INSTALLATION

Installation is in the reverse order of removal.

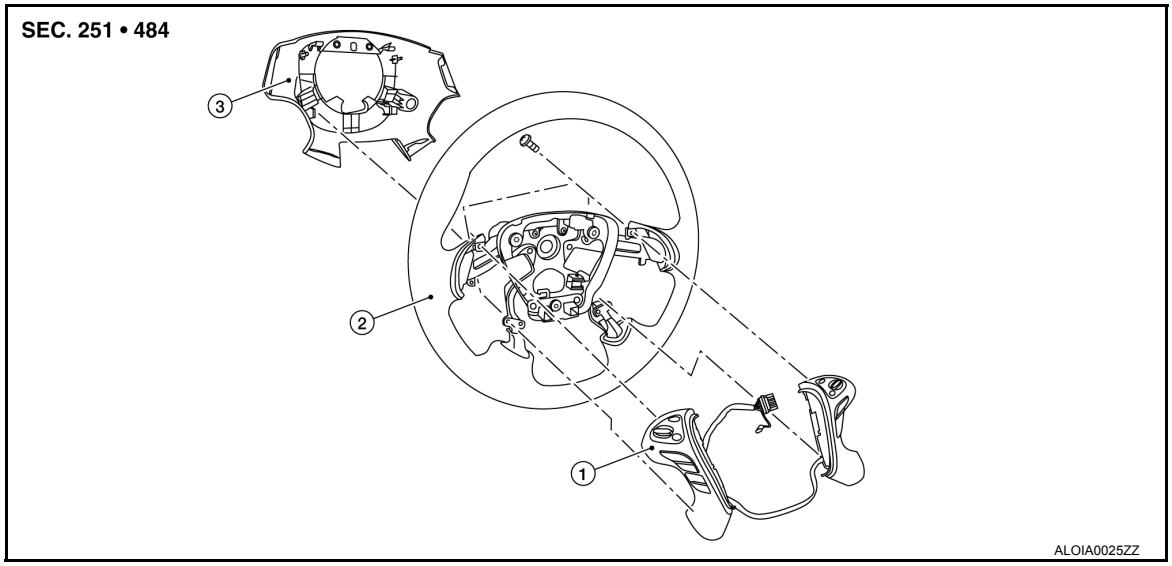
CAUTION:

When replacing preset switch, perform "Write Configuration". Refer to AV-236, "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description" and AV-237, "CONFIGURATION (AV CONTROL UNIT) : Description".

STEERING SWITCH

Exploded View

INFOID:0000000012849560



1. Steering switch
2. Steering wheel
3. Steering wheel rear finisher

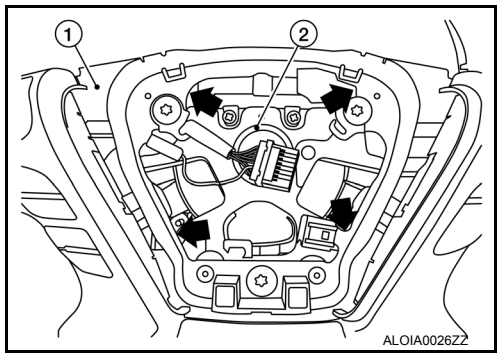
Removal and Installation

INFOID:0000000012849561

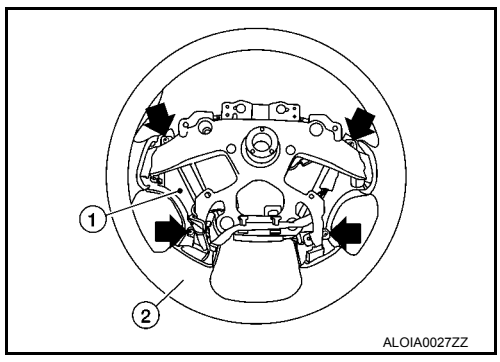
REMOVAL

NOTE:
The steering switch is serviced as an assembly.

1. Remove steering wheel. Refer to ST-50, "Removal and Installation".
2. Release pawls and remove steering wheel rear finisher (1) from steering wheel (2).



3. Remove steering switch screws.
4. Remove steering switch (1) from steering wheel (2).



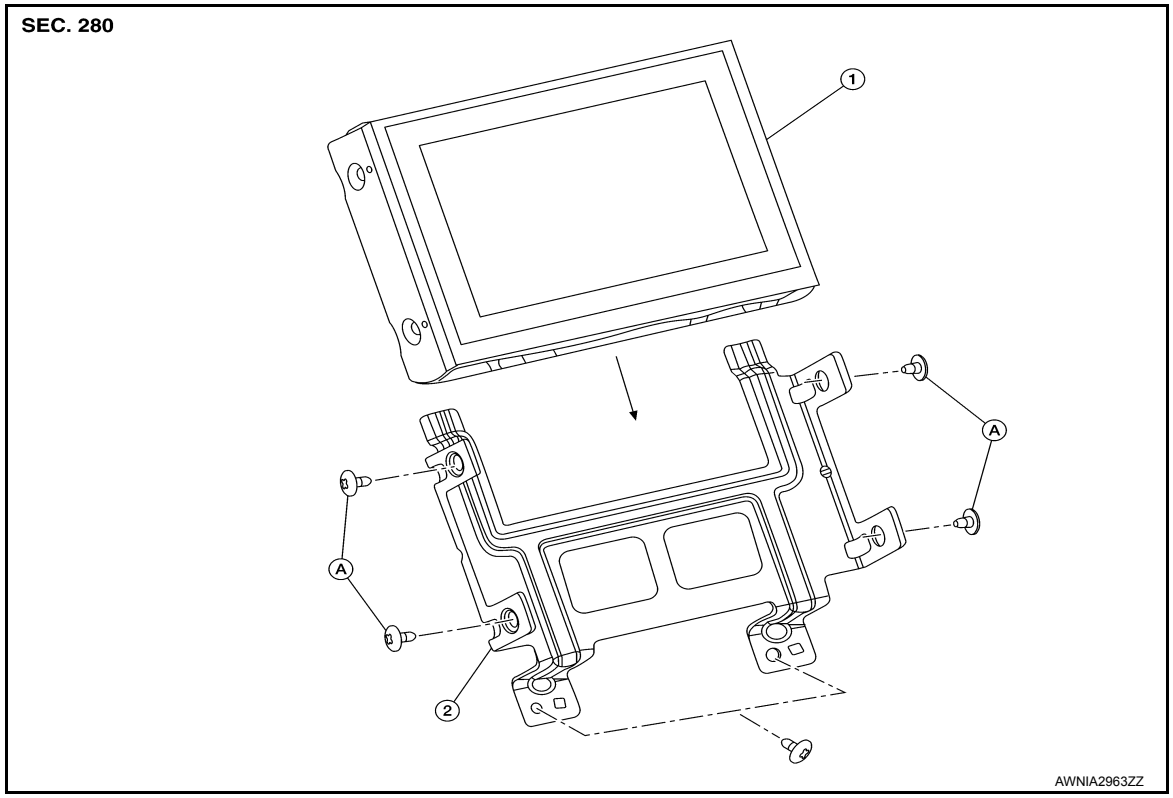
INSTALLATION

Installation is in the reverse order of removal.

DISPLAY UNIT

Exploded View

INFOID:0000000013523313



1. Display unit
2. Display unit bracket
A. Display unit screws

Removal and Installation

INFOID:0000000013523314

REMOVAL

1. Remove cluster lid D. Refer to IP-24, "Removal and Installation".
2. Remove the display unit screws, then pull out the display unit and bracket.
3. Disconnect harness connector from the display unit, then remove the display unit and bracket.
4. Remove the display unit brackets screws and the display unit from the display unit bracket (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

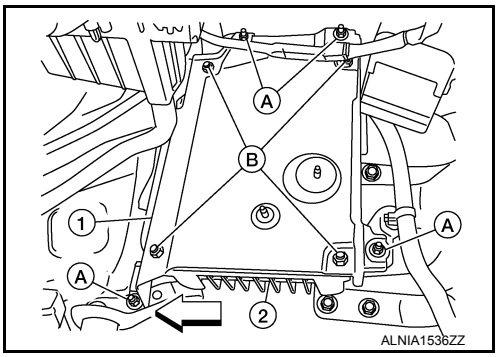
BOSE® SPEAKER AMP

Removal and Installation

INFOID:0000000013522463

REMOVAL

1. Remove rear ventilator duct lower. Refer to VTL-14, "REAR VENTILATOR DUCT LOWER : Removal and Installation".
2. Remove Bose® speaker amp bracket nuts (A).
   ⇦: Front
3. Remove Bose® speaker amp (2) and bracket (1) as an assembly.
4. Remove bolts (B) and Bose® speaker amp (2) from Bose® speaker amp bracket (1).



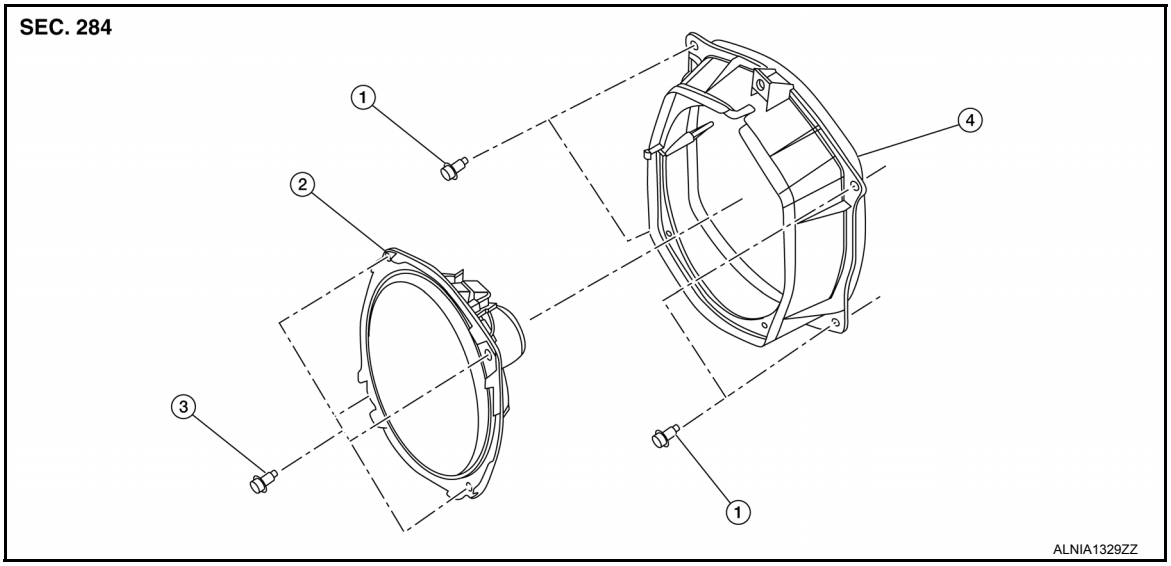
INSTALLATION

Installation is in the reverse order of removal.

FRONT DOOR SPEAKER

Exploded View

INFOID:0000000012849565



1. Speaker bracket bolt
2. Front door speaker
3. Speaker bolt
4. Speaker bracket

Removal and Installation

INFOID:0000000012849566

REMOVAL

1. Remove front door finisher. Refer to INT-15, "Removal and Installation".
2. Remove front door speaker bolts.
3. Disconnect harness connector from front door speaker, then remove front door speaker from speaker bracket.
4. Remove speaker bracket bolts (if necessary).
5. Remove speaker bracket from front door (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

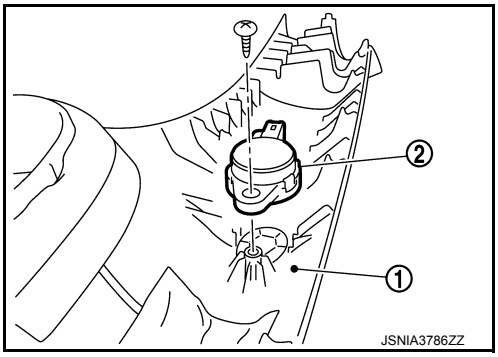
FRONT TWEETER

Removal and Installation

INFOID:0000000012849567

REMOVAL

1. Remove front pillar finisher. Refer to INT-19, "FRONT PILLAR FINISHER : Removal and Installation"
2. Remove two front tweeter screws.
3. Remove front tweeter (2) from front pillar finisher (1).



INSTALLATION

Installation is in the reverse order of removal.

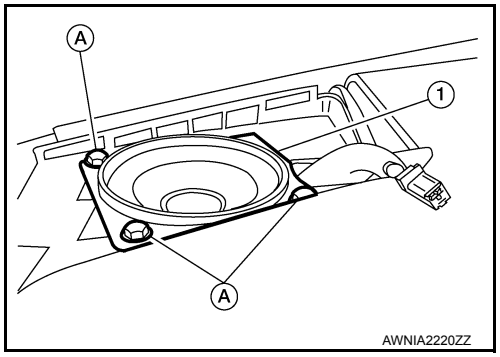
INSTRUMENT PANEL SPEAKER/TWEETER

Removal and Installation

INFOID:0000000012849568

REMOVAL

1. Remove instrument panel tweeter grille. Refer to IP-14, "Exploded View".
2. Remove the screws (A), then pull out the instrument panel tweeter (1).
3. Disconnect the harness connector from the instrument panel tweeter (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

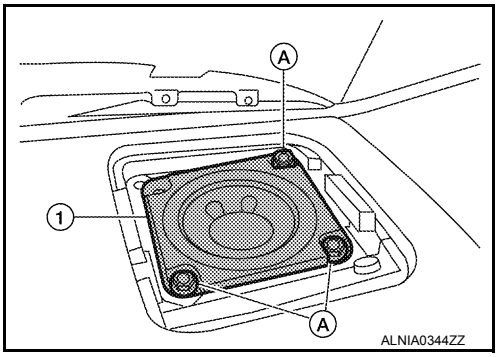
CENTER SPEAKER

Removal and Installation

INFOID:0000000012849569

REMOVAL

1. Remove center speaker grille. Refer to IP-14, "Exploded View".
2. Remove the center speaker bolts (A).
3. Pull out the center speaker (1), disconnect harness connector, then remove center speaker.



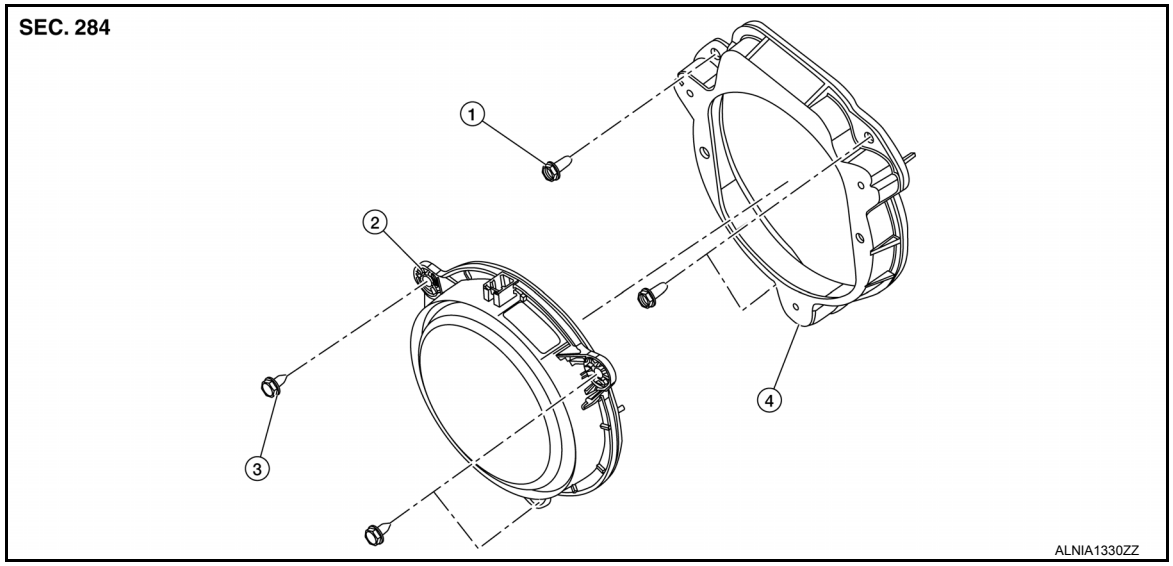
INSTALLATION

Installation is in the reverse order of removal.

REAR DOOR SPEAKER

Exploded View

INFOID:0000000012849570



1. Speaker bracket bolt
2. Rear door speaker
3. Speaker bolt
4. Speaker bracket

Removal and Installation

INFOID:0000000012849571

REMOVAL

1. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
2. Remove rear door speaker bolts.
3. Disconnect harness connector from the rear door speaker, then remove rear door speaker from speaker bracket.
4. Remove speaker bracket bolts (if necessary).
5. Remove rear door speaker bracket (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

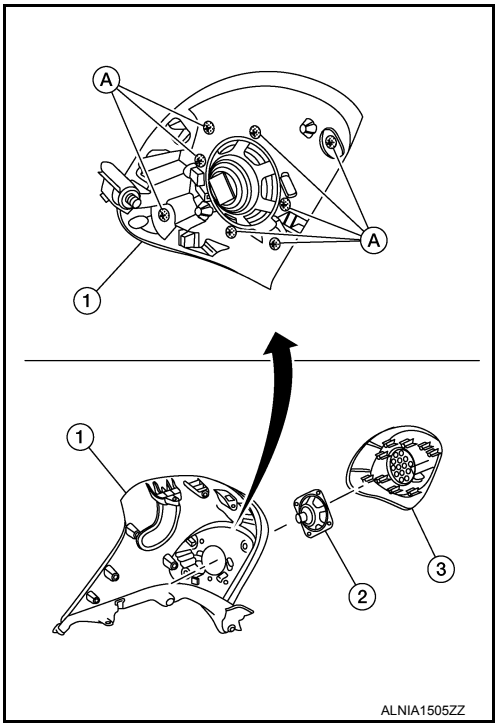
REAR SPEAKERS

Removal and Installation

INFOID:0000000013522464

REMOVAL

1. Remove back pillar finisher. Refer to INT-32, "BACK PILLAR FINISHER : Removal and Installation".
2. Remove rear speaker screws (A) from back pillar finisher (1).
3. Remove the rear speaker (2) and grille (3).



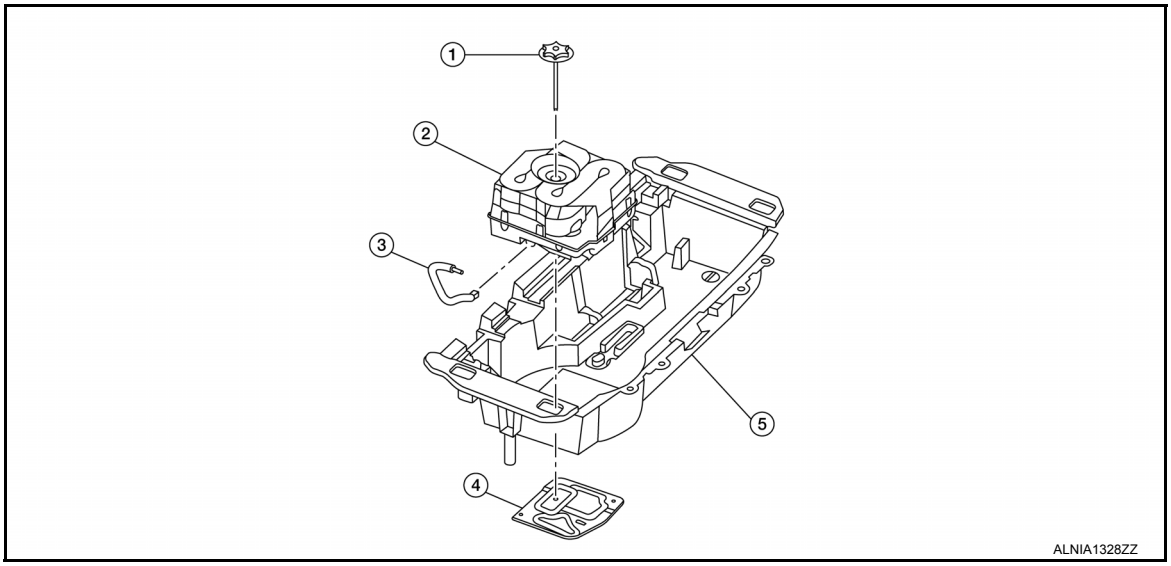
INSTALLATION

Installation is in the reverse order of removal.

SUBWOOFER

Exploded View

INFOID:0000000012849573



1. Subwoofer clamp
2. Subwoofer
3. Harness
4. Bracket
5. Rear storage box

Removal and Installation

INFOID:0000000012849574

REMOVAL

1. Open the storage box lid.
2. Remove the subwoofer clamp.
3. Lift subwoofer to disconnect harness connector, then remove subwoofer.

INSTALLATION

Installation is in the reverse order of removal.

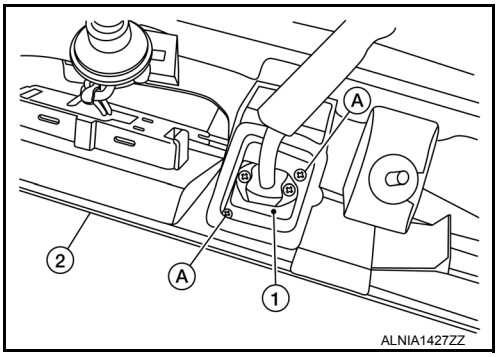
REAR VIEW CAMERA

Removal and Installation

INFOID:0000000012849575

REMOVAL

1. Remove back door outer upper finisher. Refer to EXT-45, "Removal and Installation".
2. Remove rear view camera screws (A), then remove rear view camera (1) from the back door outer upper finisher (2).



INSTALLATION

Installation is in the reverse order of removal.

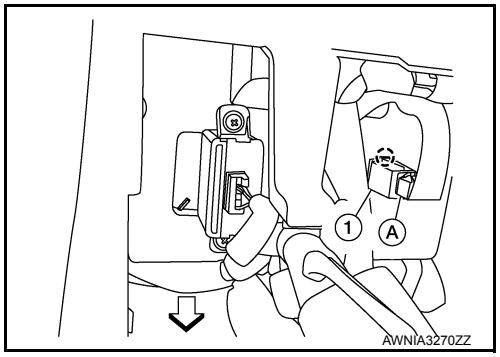
USB INTERFACE

Removal and Installation

INFOID:0000000013522465

REMOVAL

1. Remove shift selector finisher. Refer to IP-18, "Exploded View".
2. Disconnect harness connector (A) from the USB interface (1).
3. Release the pawl from the back of USB interface (1), then remove the USB interface by pulling out from the front side.
   ◌: Pawl



INSTALLATION

Installation is in the reverse order of removal.

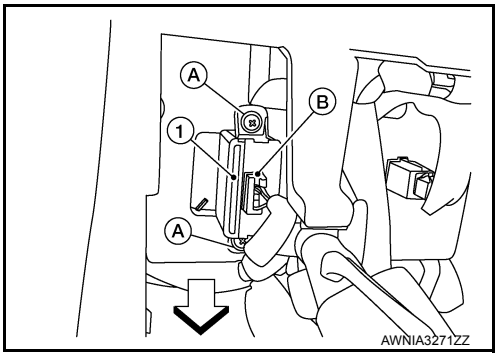
FRONT AUXILIARY INPUT JACKS

Removal and Installation

INFOID:0000000013522466

REMOVAL

1. Remove shift selector finisher. Refer to IP-18, "Exploded View".
2. Disconnect harness connector (B) from the front auxiliary input jack (1).
3. Remove front auxiliary input jack screws (A) and front auxiliary input jack (1).
   ⇦: Front



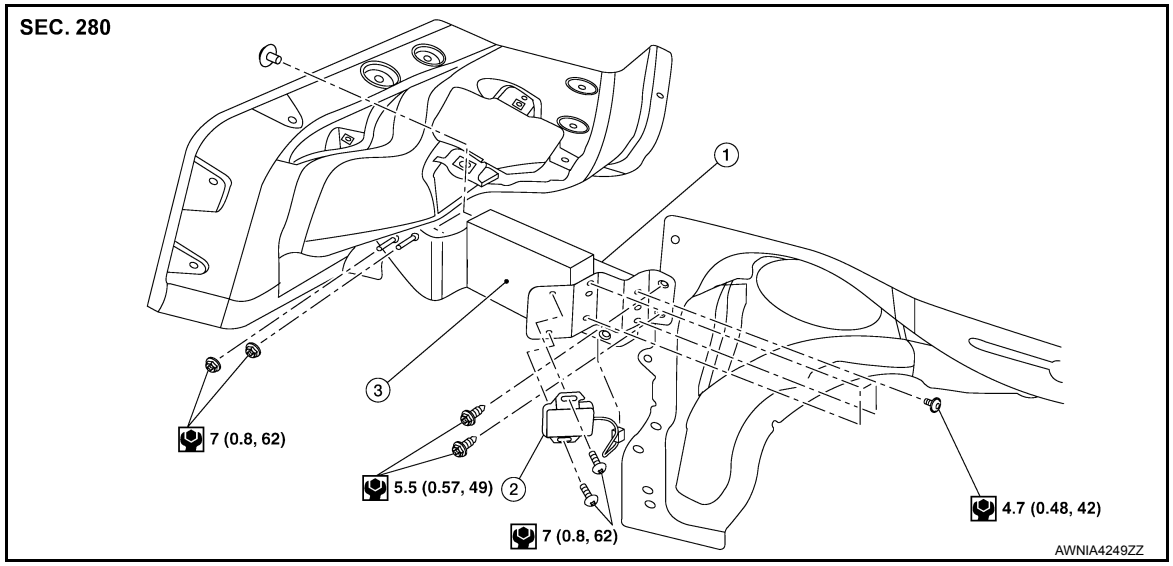
INSTALLATION

Installation is in the reverse order of removal.

BLUETOOTH® CONTROL UNIT

Exploded View

INFOID:0000000013522467



1. Bluetooth® control unit
2. Bluetooth® antenna
3. Satellite radio tuner (if equipped)

Removal and Installation

INFOID:0000000013522468

REMOVAL

1. Disconnect the negative battery terminal. Refer to PG-147, "Removal and Installation".
2. Remove satellite radio tuner (if equipped). Refer to AV-351, "Removal and Installation".
3. Disconnect the harness connectors from Bluetooth® control unit.
4. Remove Bluetooth® control unit screws and the Bluetooth® control unit.
5. Remove the Bluetooth® antenna screws and the Bluetooth® antenna.

INSTALLATION

Installation is in the reverse order of removal.

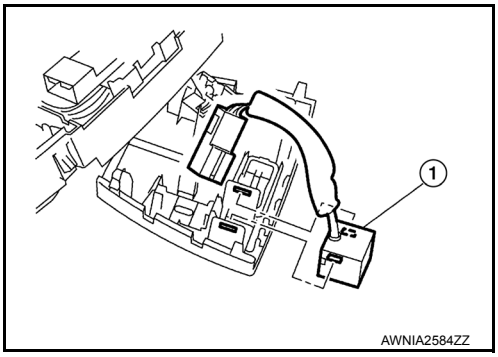
MICROPHONE

Removal and Installation

INFOID:0000000012849580

REMOVAL

1. Remove the front room/map lamp assembly. Refer to INL-64, "Removal and Installation".
2. Release the pawls, then remove the microphone (1) from the front room/map lamp assembly.
   CAUTION:
   Carefully handle the pawls that retain the microphone to avoid damaging.



INSTALLATION

Installation is in the reverse order of removal.

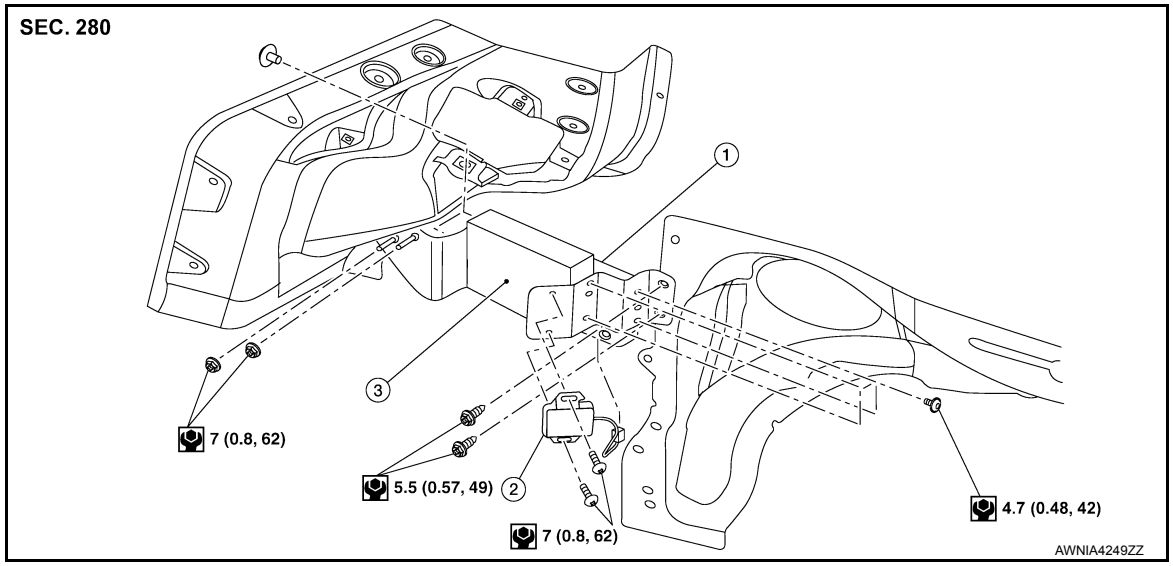
NOTE:

Check the microphone for looseness after installation.

SATELLITE RADIO TUNER

Exploded View

INFOID:0000000013522469



1. Bluetooth® control unit
2. Bluetooth® antenna
3. Satellite radio tuner

Removal and Installation

INFOID:0000000013522470

REMOVAL

1. Disconnect the negative battery terminal. Refer to PG-147, "Removal and Installation".
2. Remove the luggage side lower finisher (LH). Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
3. Disconnect the harness connectors from satellite radio antenna.
4. Remove the screws and the satellite radio tuner.

INSTALLATION

Installation is in the reverse order of removal.

SONAR CONTROL UNIT

Removal and Installation

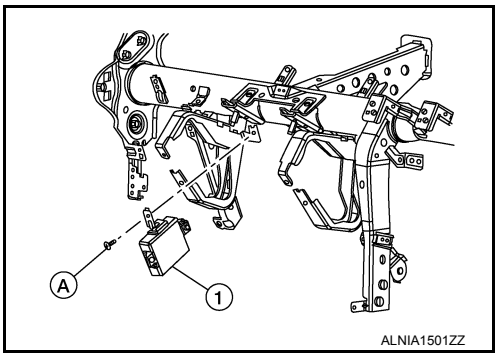
INFOID:0000000013600243

REMOVAL

CAUTION:

When replacing sonar control unit, save or print current vehicle specification with CONSULT configuration before replacement. Refer to AV-238, "ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT : Description".

1. Remove instrument lower panel LH. Refer to IP-25, "Removal and Installation".
2. Remove sonar control unit bolt (A).
3. Disconnect harness connector from the sonar control unit (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

When replacing sonar control unit, you must perform "After Replace ECU" with CONSULT. Refer to AV-238, "ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT : Description".

SONAR SENSOR

Removal and Installation

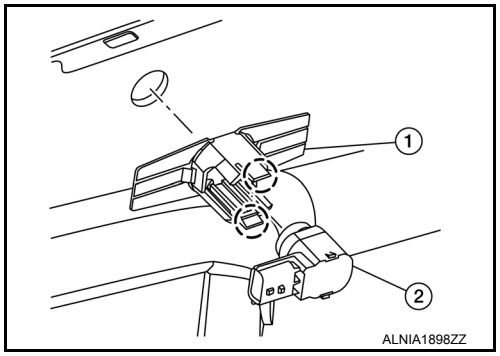
INFOID:0000000013600269

REAR SONAR SENSOR

Removal

1. Remove rear bumper fascia. Refer to EXT-20, "Removal and Installation".
2. Disconnect the harness connector from the rear sonar sensor.
3. Release the rear sonar sensor finisher (1) pawls using suitable tool and remove the rear sonar sensor (2).

:Pawl



4. Remove the rear sonar sensor finisher from the bumper fascia (if necessary).

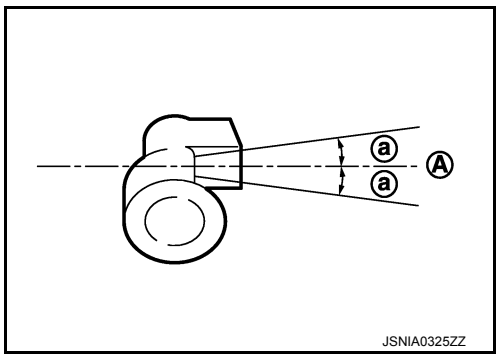
CAUTION:
If the rear sonar sensor finisher is replaced, clean area before installation.

Installation

Installation is in the reverse order of removal.

CAUTION:
Verify that the connector direction is within the specification shown when assembling the bumper fascia.

(A) : Horizontal position
(a) : ±10°

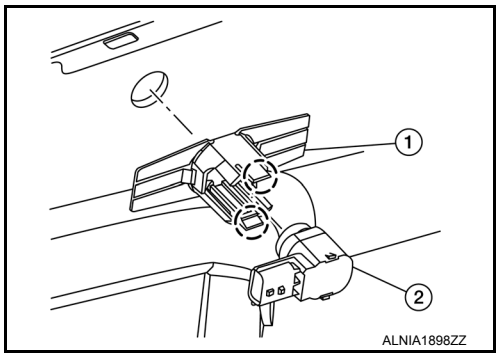


FRONT SONAR SENSOR (OUTER)

Removal

1. Remove the front bumper fascia. Refer to EXT-17, "Removal and Installation".
2. Disconnect the harness connector from the front sonar sensor (outer).
3. Release the front sonar sensor finisher (1) pawls using suitable tool and remove the front sonar sensor (outer) (2).

:Pawl



4. Remove the front sonar sensor finisher (1) from the bumper fascia (if necessary).

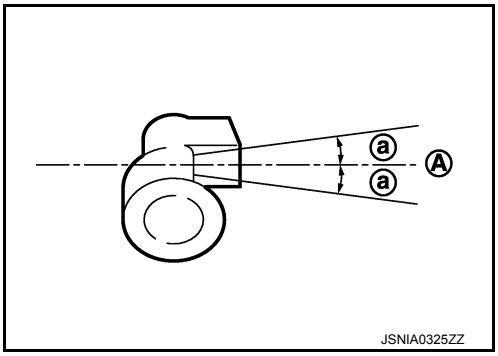
CAUTION:

If the sonar sensor finisher is replaced, clean area before installation.

Installation
Installation is in the reverse order of removal.

CAUTION:
Verify that the connector direction is within the specification shown when assembling the bumper fascia.

(A) : Horizontal position
(a) : 10°

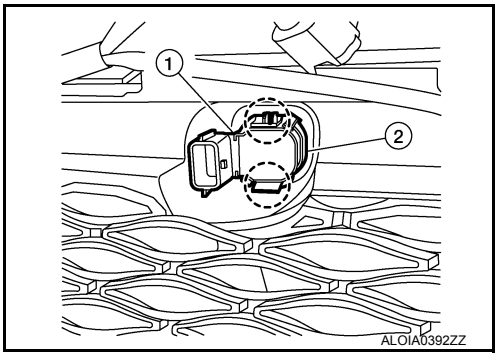


FRONT SONAR SENSOR (INNER)

Removal

1. Remove the front bumper fascia. Refer to EXT-17, "Removal and Installation".
2. Disconnect the harness connector from the front sonar sensor (inner).
3. Release the front sonar sensor (inner) finisher (2) pawls using suitable tool and remove the sensor (1).

:Pawl



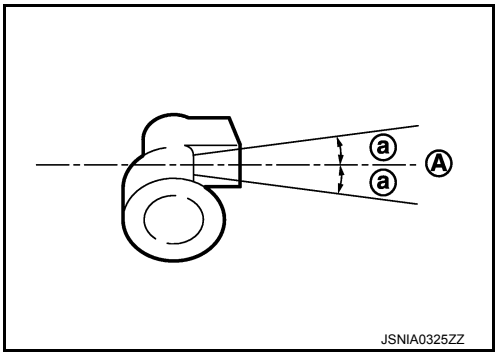
4. Remove the sonar sensor finisher from the grille (if necessary).

CAUTION:
If the sonar sensor finisher is replaced, clean area before installation.

Installation
Installation is in the reverse order of removal.

CAUTION:
Verify that the connector direction is within the specification shown when assembling the bumper fascia.

(A) : Horizontal position
(a) : 10°



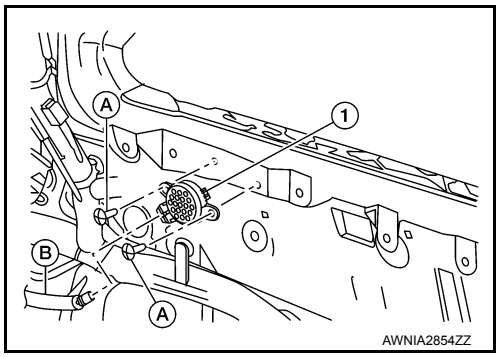
SONAR BUZZER

Removal and Installation

INFOID:0000000013600272

REMOVAL

1. Remove luggage side lower finisher (LH). Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
2. Disconnect harness connector (B) from the sonar buzzer (1).
3. Remove sonar buzzer screws (A) and the sonar buzzer (1).



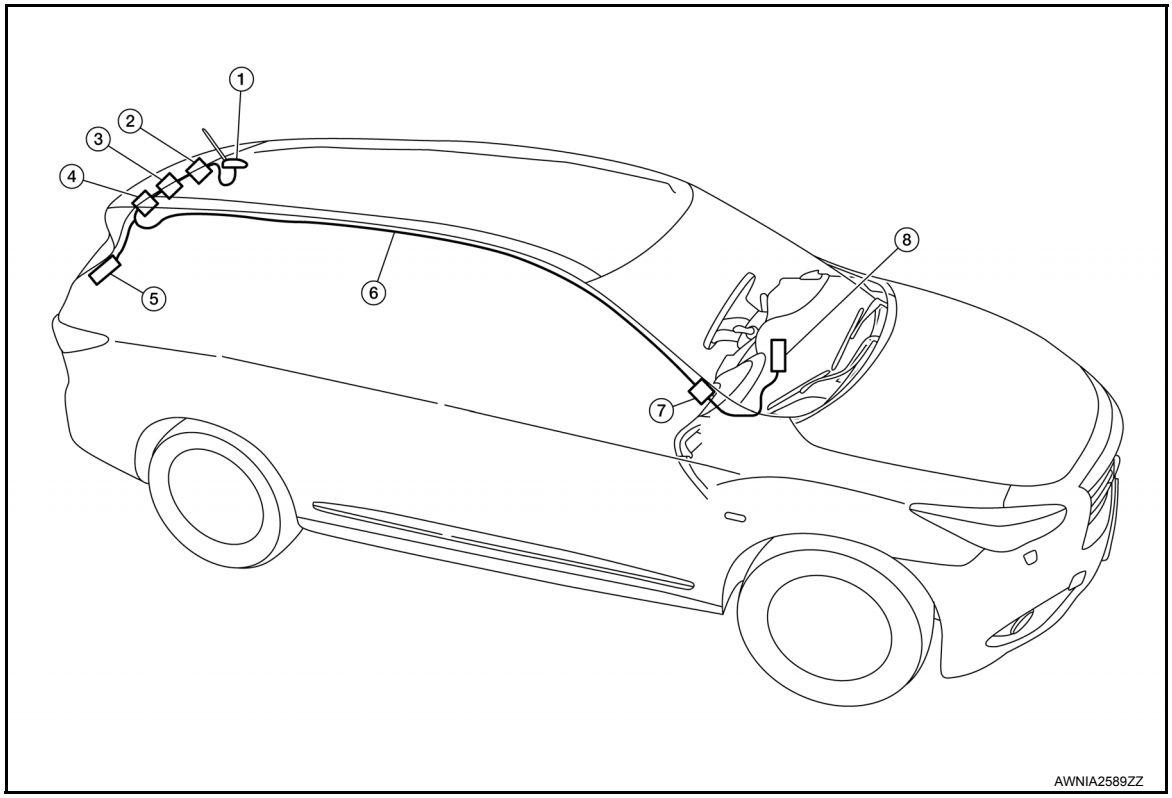
INSTALLATION

Installation is in the reverse order of removal.

AUDIO ANTENNA

Location of Antennas

INFOID:0000000012849583



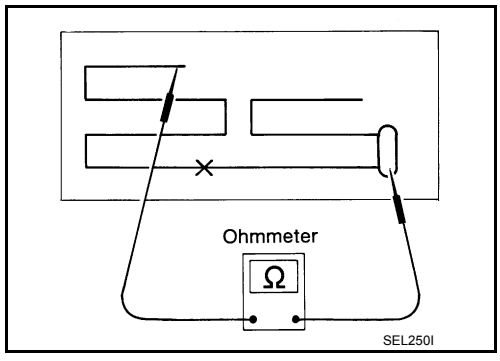
1. Antenna base (satellite antenna and antenna amp)
2. M502
3. M501
4. M503, M504
5. M505
6. Antenna Feeder
7. M95, M500
8. AV control unit M124

Window Antenna Repair

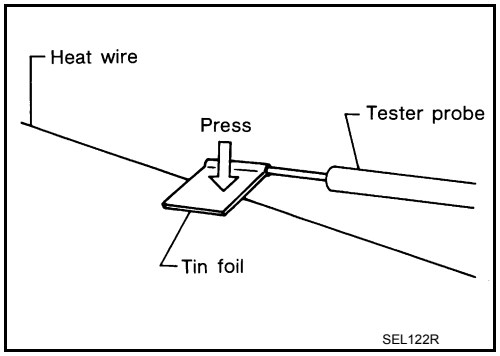
INFOID:0000000012849584

ELEMENT CHECK

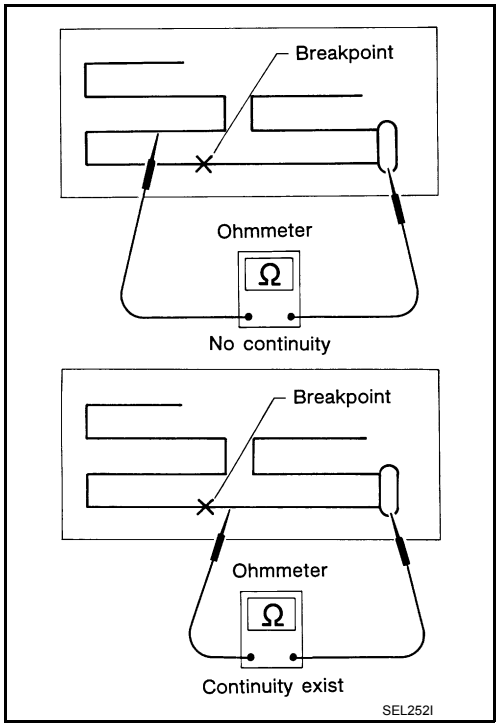
1. Attach probe circuit tester (ohm setting) to antenna terminal on each side.



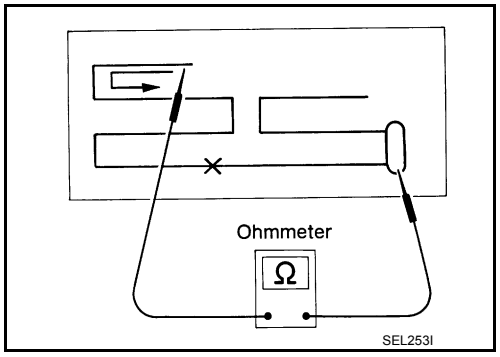
- **When measuring continuity, wrap tin foil around the top of probe. Then, press the foil against the wire with your finger.**



2. If an element is broken, no continuity will exist.



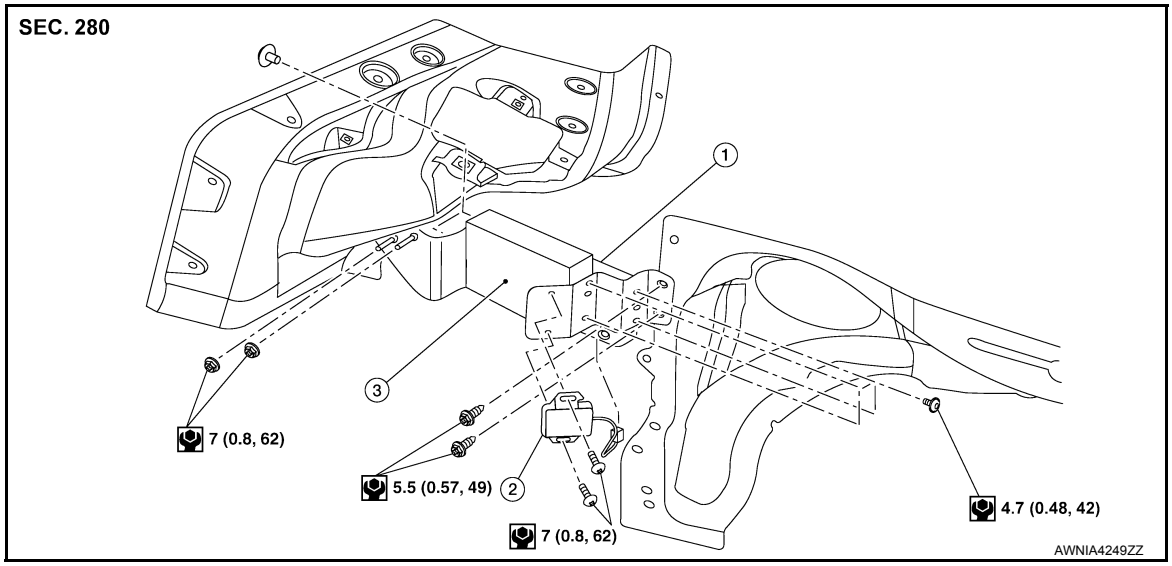
3. To locate a break, move probe along element. Tester indication will change abruptly when probe passes the broken point.



BLUETOOTH® ANTENNA

Exploded View

INFOID:0000000013522471



1. Bluetooth® control unit
2. Bluetooth® antenna
3. Satellite radio tuner (if equipped)

Removal and Installation

INFOID:0000000013522472

REMOVAL

1. Remove luggage side lower finisher (LH). Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
2. Disconnect the Bluetooth® antenna harness connector from Bluetooth® control unit.
3. Remove bolts and the Bluetooth® antenna from bracket.

INSTALLATION

Installation is in the reverse order of removal.

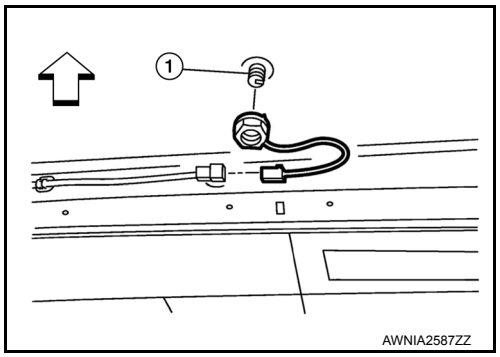
SATELLITE RADIO ANTENNA

Removal and Installation

INFOID:0000000012849586

REMOVAL

1. Lower headlining (rear). Refer to INT-27, "Removal and Installation".
2. Disconnect harness connector from antenna feeder.
3. Remove nut from satellite radio antenna (1) and remove.
   ⇦: Front



INSTALLATION

Installation is in the reverse order of removal.

Satellite radio antenna nut : 6.5 N·m (0.66 kg–m, 58 in–lb)

CAUTION:

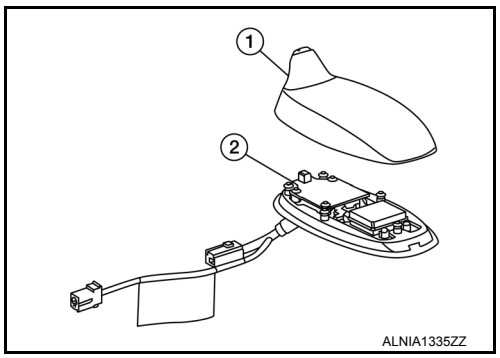
If the satellite radio antenna nut is not tightened to the specified torque, lower sensitivity of the antenna may be experienced. If the nut is tightened tighter than the specified torque, this will deform the roof panel.

Disassembly and Assembly

INFOID:0000000012849587

DISASSEMBLY

Insert a suitable tool into gaps between satellite radio antenna (2) and the cover (1), then remove the cover (1) from satellite radio antenna (2).



ASSEMBLY

Assembly is in the reverse order of disassembly.

PRECAUTION

PRECAUTIONS

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

INFOID:0000000013522473

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 dual stage front air bag modules. The SRS system may only deploy one front air bag, depending on the severity of a collision and whether the front passenger seat is occupied. Information necessary to service the system safely is included in the SR and SB section 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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, 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 SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

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

Cautions in Removing Battery Terminal and AV Control Unit (Models with AV Control Unit)

INFOID:0000000012849589

CAUTION:

Remove battery terminal and AV control unit 30 seconds or more after turning the ignition switch OFF.

NOTE:

After the ignition switch is turned OFF, the AV control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

Precaution for Trouble Diagnosis

INFOID:0000000012849590

AV COMMUNICATION SYSTEM

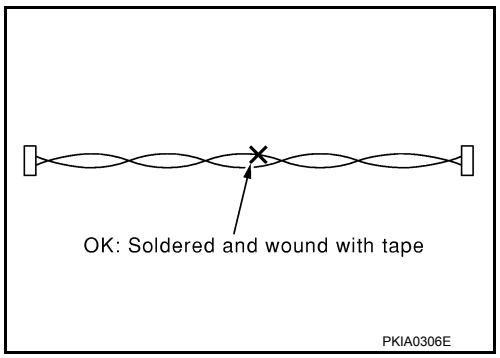
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

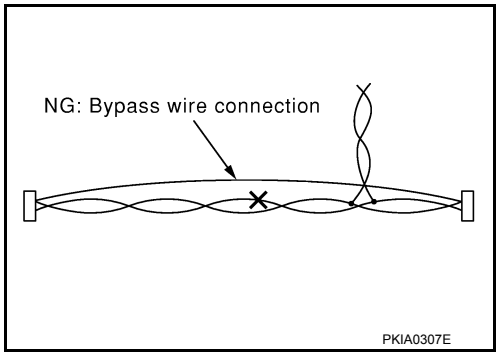
INFOID:0000000012849591

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.)



Precaution for Work

INFOID:0000000012849592

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

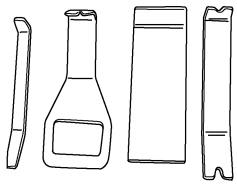
PREPARATION

PREPARATION

Special Service Tool

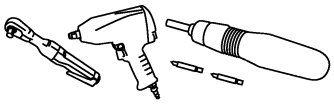
INFOID:0000000012849593

The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tools

INFOID:0000000012849594

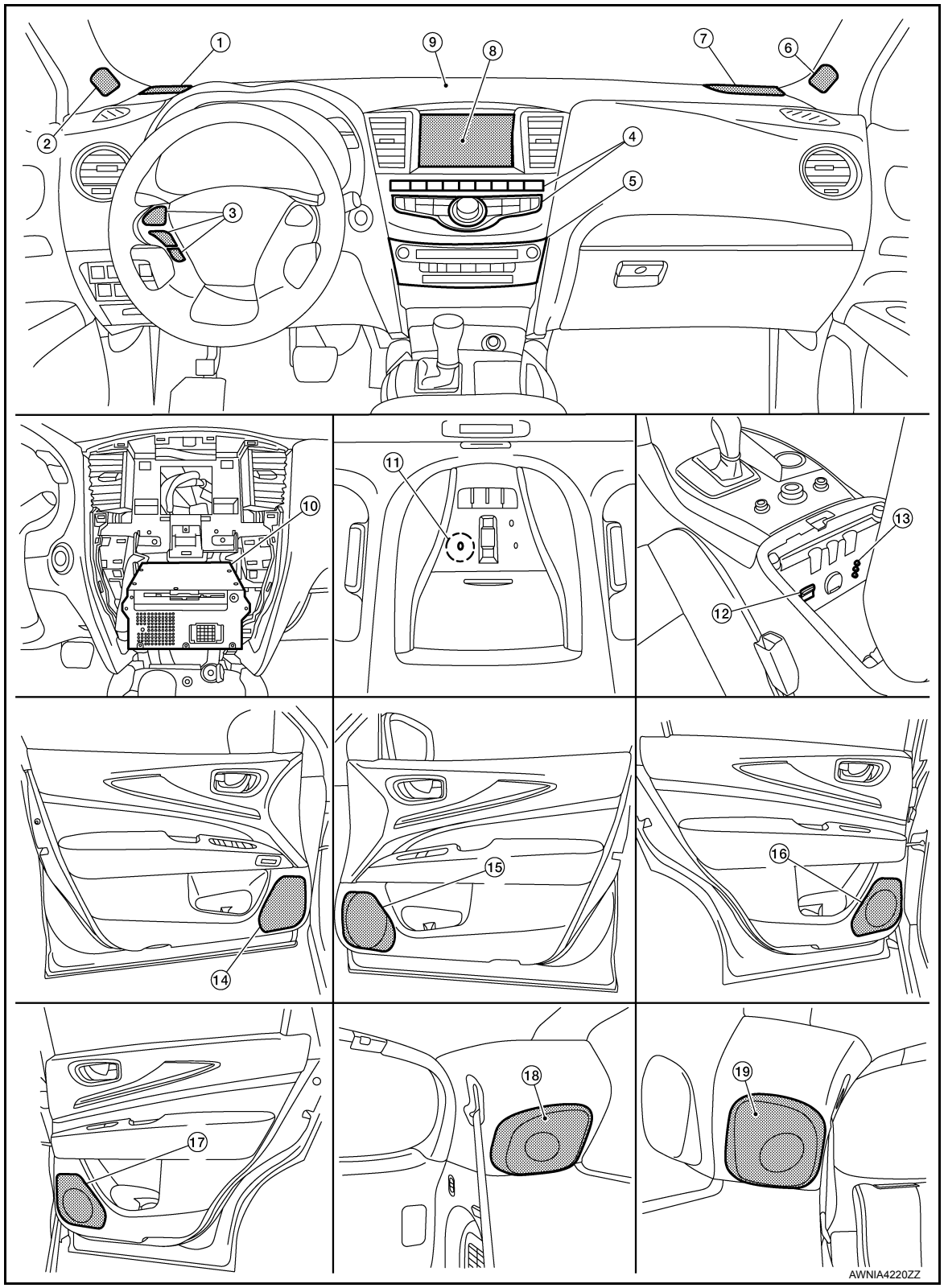
Tool name	Description
Power tools  PIIB1407E	Loosening nuts, screws and bolts

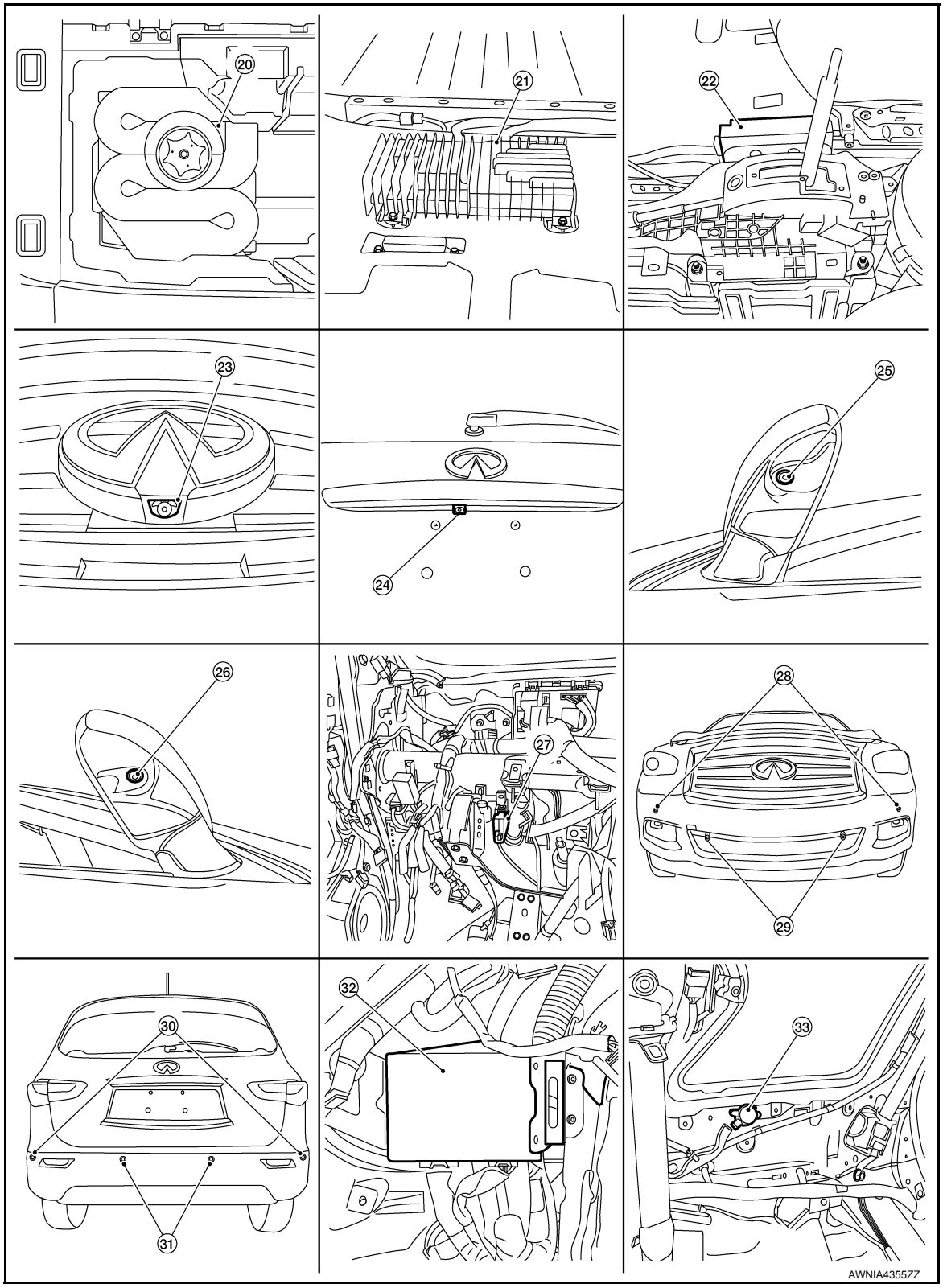
SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000012849595

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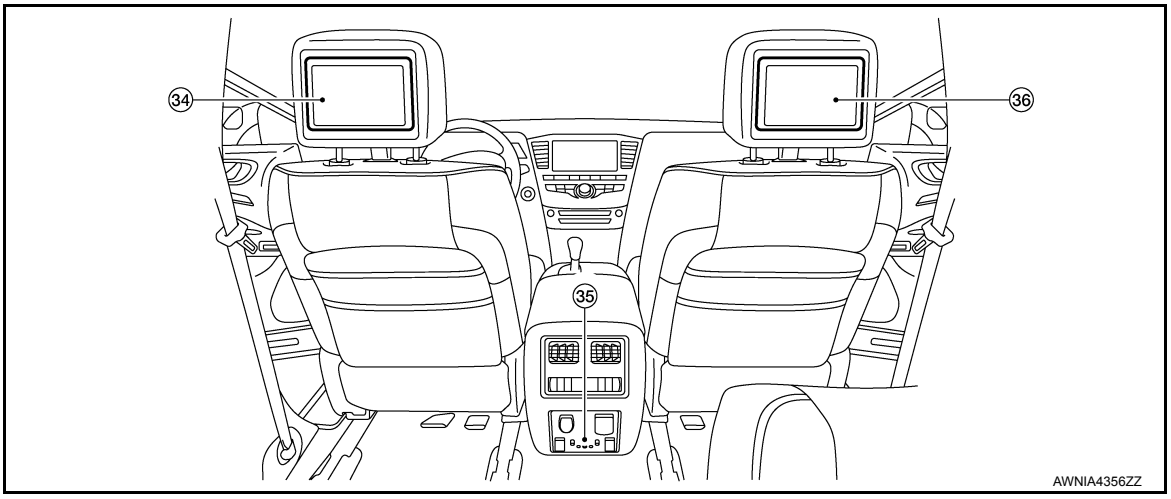

1.	Instrument panel tweeter LH	2.	Front tweeter LH	3.	Steering switch
4.	Multifunction switch	5.	Preset switch	6.	Front tweeter RH
7.	Instrument panel tweeter RH	8.	Display unit	9.	Center speaker
10.	AV control unit (view with center stack removed)	11.	Microphone	12.	USB interface
13.	Front auxiliary input jacks	14.	Front door speaker LH	15.	Front door speaker RH
16.	Rear door speaker LH	17.	Rear door speaker RH	18.	Rear side speaker LH
19.	Rear side speaker RH	20.	Subwoofer	21.	Bose® speaker amp.
22.	Around view monitor control unit	23.	Front camera	24.	Rear view camera
25.	Door mirror LH (side camera)	26.	Door mirror RH (side camera)	27.	Sonar control unit
28.	Front sonar sensors outer	29.	Front sonar sensors inner (if equipped)	30.	Rear sonar sensors outer
31.	Rear sonar sensors inner (if equipped)	32.	Video distributor (if equipped)	33.	Sonar buzzer
34.	Headrest display unit (driver seat) (if equipped)	35.	Rear auxiliary input jacks (if equipped)	36.	Headrest display unit (passenger seat) (if equipped)

Component Description

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Part name	Description
AV control unit	• Master unit of MULTI AV system. • AV control unit includes audio, hands-free phone, navigation, USB connection, DVD play and vehicle status functions. • Integrates hard disk drive (HDD) allowing map data and music data to be stored. • Connected to MULTI AV system control units via AV communication. • Connected to other vehicle control units via CAN communication to obtain necessary information for vehicle function. • Receives steering angle signal via CAN communication from steering angle sensor and controls an expected course line during around view monitor operation. • Inputs signals for driving status recognition (vehicle speed, reverse and parking brake). • RGB digital image signal and composite image signal are output to front display unit. • Transmits image and sound output to video distributor and inputs image switch signal from headrest display units via AV communication. • Receives an Intelligent Key identification signal necessary for Intelligent Key interlocking function via hard wire from BCM. • Transmits Amp. ON signal to BOSE amp. • Update of map data is performed using DVD-ROM.
Display unit	• Display image is controlled by AV control unit via serial communication. • Receives power from AV control unit. • RGB and RGB digital image signals are input from AV control unit. • Composite image signals are input from AV control unit. • Synchronizing signals are output to AV control unit. • Camera image signals are input from around view monitor control unit via video output signal. • Touch panel functions can be operated by touching display directly.
BOSE speaker amp.	Receives sound signals from AV control unit and outputs sound signals to each speaker.
Instrument panel tweeter	Outputs high range sound signals from BOSE speaker amp.
Center speaker	Outputs mid and high range sound signals from BOSE speaker amp.
Front tweeter	Outputs high range sound signals from BOSE speaker amp.
Front door speaker	Outputs low, mid and high range sound signals from BOSE speaker amp.
Rear door speaker	Outputs low, mid and high range sound signals from BOSE speaker amp.
Rear side speaker	Outputs low, mid and high range sound signals from BOSE speaker amp.
Subwoofer	Outputs low range sound signals from BOSE speaker amp.
Multifunction switch	• Operation panel is equipped with the centralized switch where navigation and air conditioner, etc. operations are integrated. • Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication. • The disk ejection operating signal is performed by hardwire.
Preset switch	• Operation panel is equipped with the centralized switch where audio, etc. operations are integrated. • Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication.
Steering switch	• Operations for audio, hands-free phone and voice recognition are possible. • Steering switch signal (operation signal) is output to AV control unit.
Steering angle sensor	Connected to AV control unit via CAN communication and transmits steering angle sensor signal.
Video distributor	• Receives image and sound signals from AV control unit and transmits them to headrest display units. • Receives image and sound signals from rear auxiliary input jacks and transmits them to headrest display units. • Transmits image and sound signals to headrest display unit and receives image switch signal from headrest display units.

Part name	Description
Headrest display units	• Composite image signals are input from video distributor. • Receives DVD/AUX/USB sound signals from video distributor and transmits them to headphones. • Transmits image switch signal to video distributor according to remote control operation. • Transmits image switch signal to AV control unit via AV communication according to remote control operation.
Front auxiliary input jacks	Transmits image and sound signals to AV control unit.
Rear auxiliary input jacks	Transmits image and sound signals to video distributor and headrest display units.
Around view monitor control unit	• Supplies power to front, rear and side cameras. • Superimposes images from each camera and outputs them to display unit. • Superimposes guiding line, predicted course line and sonar indicator to camera image that outputs to display unit. • Performs reception/transmission of communication signals with cameras. • Transmits sonar operation signal from sonar control unit via CAN communication. • Receives sonar information from sonar control unit via CAN communication. • Transmits data received/transmitted from sonar control unit to AV control unit via CAN communication.
Front camera	• Inputs power supply from around view monitor control unit. • Outputs image of vehicle front to around view monitor control unit. • Performs reception/transmission of communication signal with around view monitor control unit.
Rear view camera	• Inputs power supply from around view monitor control unit. • Outputs image of vehicle rear to around view monitor control unit. • Performs reception/transmission of communication signal with around view monitor control unit.
Side camera LH	• Inputs power supply from around view monitor control unit. • Outputs image of vehicle LH side to around view monitor control unit. • Performs reception/transmission of communication signal with around view monitor control unit.
Side camera RH	• Inputs power supply from around view monitor control unit. • Outputs image of vehicle RH side to around view monitor control unit. • Performs reception/transmission of communication signal with around view monitor control unit.
Sonar control unit	• Connected to around view monitor control unit via CAN communication. • Receives sonar operation signal from around view monitor control unit via CAN communication. • Transmits sonar detection status to around view monitor control unit via CAN communication. • Judges warning level according to signals from front and rear sensors.
Front sensors	Detects front obstacle distance and transmits signal to sonar control unit.
Rear sensors	Detects rear obstacle distance and transmits signal to sonar control unit.
Microphone	• Used for hands-free phone, voice recognition and INFINITI CONNECTIONS operations. • Microphone signal is transmitted to telematics control unit (TCU). • Power (Microphone VCC) is supplied from TCU.
Telematics control unit (TCU) (if equipped)	• Connected to the AV control unit via a USB harness for sound signal input/output and USB communication. • Data is sent to and received from the INFNITI CONNECTIONS data center via the TEL antenna. • Inputs TEL voice signal from TEL antenna and outputs it to AV control unit.
TEL antenna (if equipped)	• Receives TEL voice signals and outputs them to TCU. • Transmits TEL voice signals from TCU.
GPS antenna	GPS signal is received and transmitted to AV control unit.
Antenna amp.	• Radio signal received by window antenna is amplified and transmitted to AV control unit. • Power (antenna amp. ON signal) is supplied from AV control unit.

Part name	Description
Satellite radio antenna (if equipped)	Satellite radio signal is received and transmitted to AV control unit.
USB connector	USB sound and data input signals are transmitted to AV control unit.

SYSTEM
MULTI AV SYSTEM
MULTI AV SYSTEM : System Diagram

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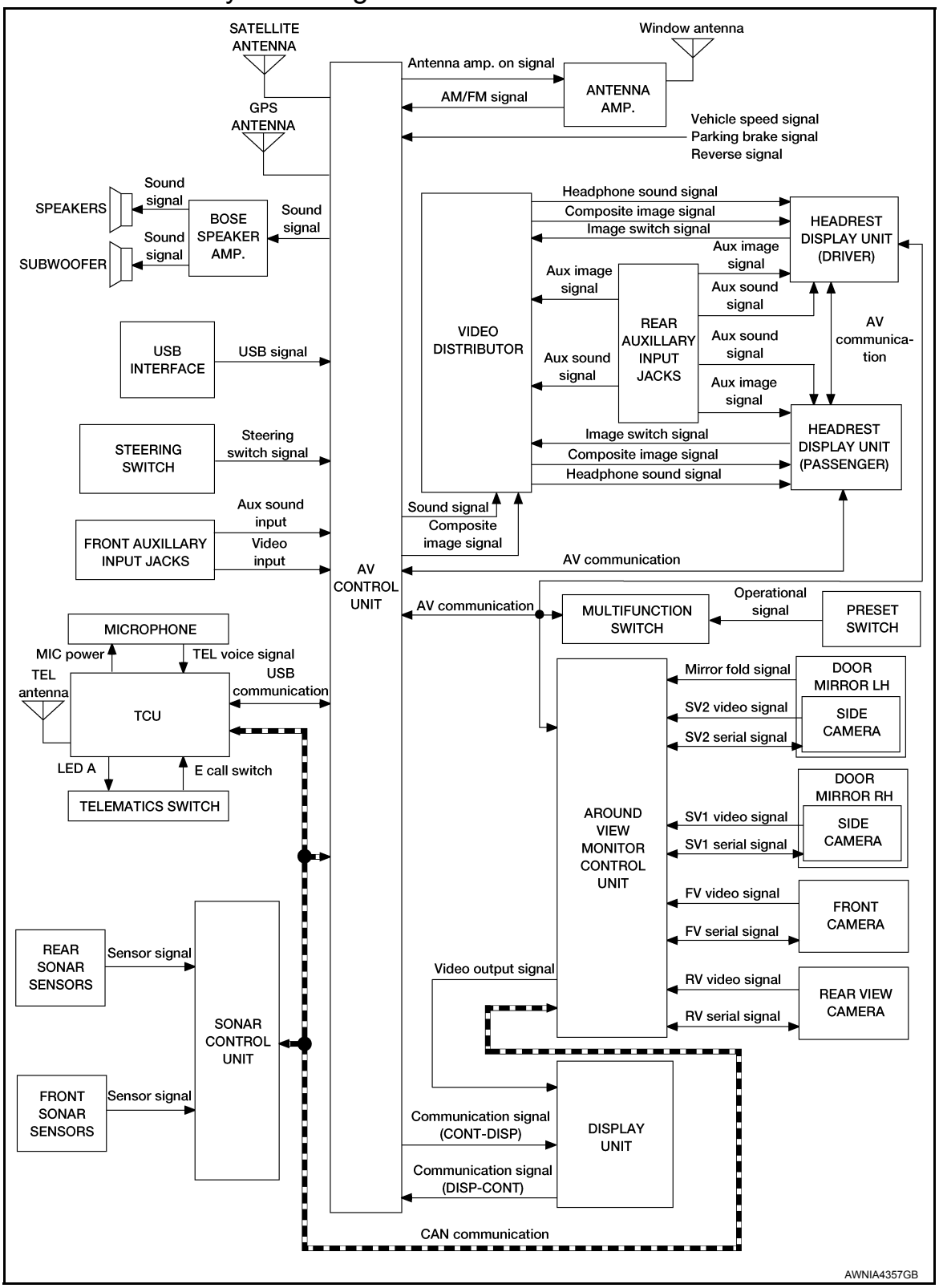

MULTI AV SYSTEM : System Description

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AUDIO SYSTEM

The audio system consists of the following components
- AV control unit
- Multifunction switch
- Preset switch
- Display unit
- Steering switch
- BOSE speaker amp.
- Center speaker
- Instrument panel tweeters
- Front tweeters
- Front door speakers
- Rear door speakers
- Rear side speakers
- Subwoofer
- Window antenna

When the audio system is on, radio signals are received by the window antenna. The AV control unit then sends audio signals to the BOSE speaker amp. The BOSE speaker amp. amplifies the audio signals before sending them to the speakers, tweeters and subwoofer.
Refer to Owner's Manual for audio system operating instructions.

SATELLITE RADIO SYSTEM

The satellite radio system consists of the following components
- Satellite antenna
- AV control unit

When the satellite radio system is on, radio signals are supplied to the AV control unit from the satellite antenna. The AV control unit then sends audio signals to the BOSE speaker amp.
Refer to Owner's Manual for satellite radio system operating instructions.

HANDS-FREE PHONE SYSTEM

System Operation

NOTE:

Cellular telephones must have their wireless connection set up (paired) before using the Bluetooth® telephone system.

The Bluetooth® telephone system allows users who have a Bluetooth® cellular telephone to make a wireless connection between their cellular telephone and the AV control unit. Hands-free cellular telephone calls can be sent and received. Some Bluetooth® cellular telephones may not be recognized by the AV control unit. When a cellular telephone or the AV control unit is replaced, the telephone must be paired with the AV control unit. Different cellular telephones may have different pairing procedures, refer to the cellular telephone operating manual.

Refer to the Owner's Manual for Bluetooth® telephone system operating instructions.

AV Control Unit

When the ignition switch is turned to ACC or ON, the AV control unit will power up. During power up, the AV control unit is initialized and performs various self-checks. Initialization may take up to 20 seconds. If a phone is present in the vehicle and paired with the AV control unit, Infiniti Voice Recognition will then become active. Bluetooth® telephone functions can be turned off using the Infiniti Voice Recognition system.

Steering Switch

When buttons on the steering switch are pushed, the resistance in steering switch circuit changes, depending on which button is pushed. The AV control unit uses this signal to perform various functions while navigating through the voice recognition system.
The following functions can be performed using the steering switch:
- Initiate self-diagnosis of the Bluetooth® telephone system
- Start a voice recognition session
- Answer and end telephone calls
- Adjust the volume of calls
- Record memos

Microphone

The microphone is located in the roof console assembly. The microphone sends a signal to the Telematics Control Unit (TCU), which transmits the signal to the AV control unit via the USB communication circuits. The microphone can be actively tested during self-diagnosis.

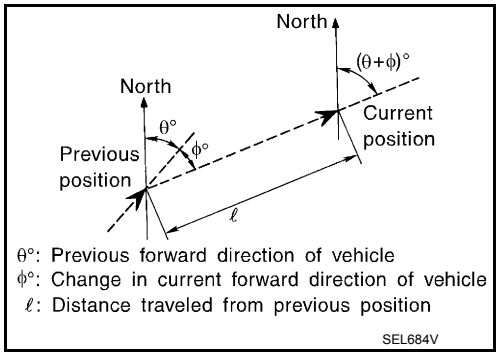
NAVIGATION SYSTEM

System Operation

NOTE:
Refer to NAVI System Owner's Manual for system operation.

The navigation system periodically calculates the vehicle's current position according to the following three signals: Travel distance of the vehicle as determined by the vehicle speed sensor, turning angle of the vehicle as determined by the gyroscope (angular velocity sensor), and the direction of vehicle travel as 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 read from the map data, which is stored in the hard disk drive (HDD) (map-matching), and indicated on the screen with a current-location mark.

By comparing the vehicle position detection results found by the GPS and by map-matching, more accurate vehicle position data can be used.
The current vehicle position will be calculated by detecting the distance the vehicle moved from the previous calculation point and its direction.



Travel Distance

Travel distance calculations are based on the vehicle speed input signal. Therefore, the calculation may become incorrect as the tires wear down. To prevent this, an automatic distance fine adjustment function has been adopted.

Travel Direction

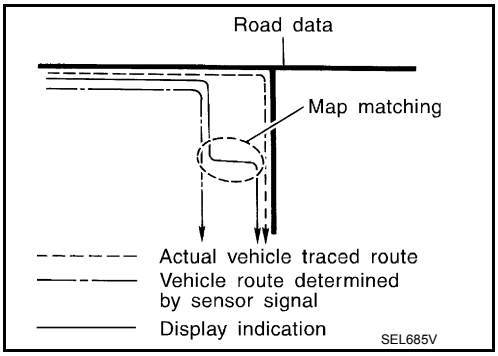
Change in the travel direction of the vehicle is calculated by a gyroscope (angular velocity sensor) and a GPS antenna (GPS information). As the gyroscope and GPS antenna have both merit and demerit, input signals from them are prioritized in each situation. However, this order of priority may change in accordance with more detailed travel conditions so that the travel direction is detected more accurately.

Type	Advantage	Disadvantage
Gyroscope (angular velocity sensor)	• Can detect the vehicle's turning angle quite accurately.	• Direction errors may accumulate when the vehicle is driven for long distances without stopping.
GPS antenna (GPS information)	• Can detect the vehicle's travel direction (North/South/East/West).	• Correct direction cannot be detected when the vehicle speed is low.

Map–Matching

Map–matching is a function that repositions the vehicle on the road map when a new location is judged to be the most accurate. This is done by comparing the current vehicle position, calculated by the method described in the position detection principle, with the road map data around the vehicle, read from the map data stored on the HDD.

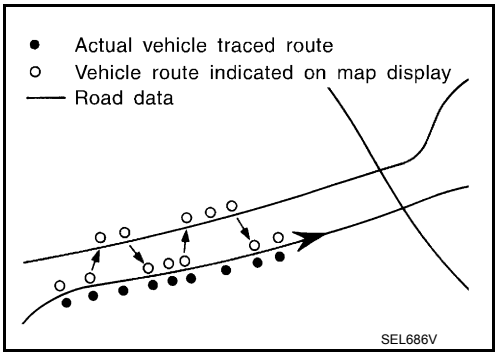
Therefore, the vehicle position may not be corrected after the vehicle is driven over a certain distance or time in which GPS information is hard to receive. In this case, the current-location mark on the display must be corrected manually.



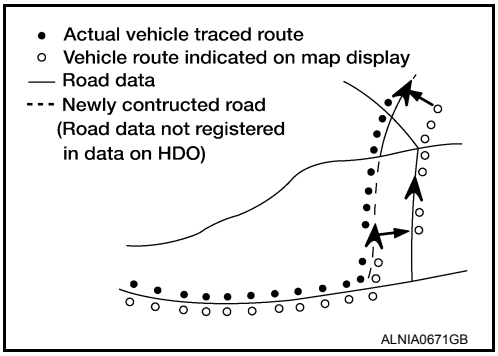
CAUTION:

The road map data is based on data stored on the HDD.

- In map-matching, alternative routes to reach the destination will be shown and prioritized, after the road on which the vehicle is currently driven has been judged and the current-location mark has been repositioned.
  If there is an error in distance and/or direction, the alternative routes will be shown in different order of priority, and the wrong road can be avoided.
  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.



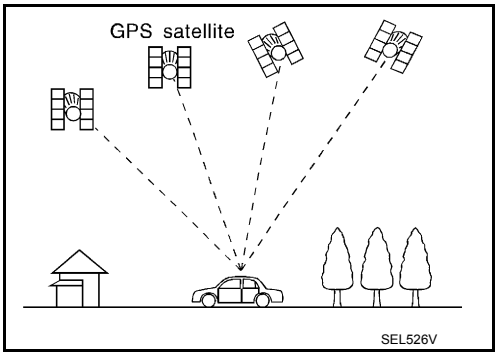
- Map-matching does not function correctly when the road on which the vehicle is driving is new and not recorded on the HDD, or when the road pattern stored in the map data and the actual road pattern are different due to repair.
  When driving on a road not present in the map, the map-matching function may find another road and position the current-location mark on it. Then, when the correct road is detected, the current-location mark may leap to it.
- Effective range for comparing the vehicle position and travel direction calculated by the distance and direction with the road data read from the HDD is limited. Therefore, when there is an excessive gap between the current vehicle position and the position on the map, correction by map-matching is not possible.



GPS (Global Positioning System)

GPS (Global Positioning System) has been developed and controlled by the US Department of Defense. The system utilizes GPS satellite (NAVSTAR), sending out radio waves while flying on an orbit around the earth at the height of approx. 21,000 km (13,000 mi).

The GPS receiver calculates the vehicle's position in three dimensions (latitude/longitude/altitude) according to the time lag of the radio waves received from four or more GPS satellites (three-dimensional positioning). If radio waves were received only from three GPS satellites, the GPS receiver calculates the vehicle's position in two dimensions (latitude/longitude), utilizing the altitude data calculated previously by using radio waves from four or more GPS satellites (two-dimensional positioning).



Accuracy of the GPS will deteriorate under the following conditions.

- In two-dimensional positioning, the GPS accuracy will deteriorate when the altitude of the vehicle position changes.
- There may be an error of approximately 10 m (30 ft.) in position detected by three-dimensional positioning, which is more accurate than two-dimensional positioning. The accuracy can be even lower depending on the arrangement of the GPS satellites utilized for the positioning.
- Position detection is not possible when the vehicle is in an area where radio waves from the GPS satellite do not reach, such as in a tunnel, parking lot in a building, and under an elevated highway. Radio waves from the GPS satellites may not be received when some object is located over the GPS antenna.
- Position correction by GPS is not available while the vehicle is stopped.

SPEED SENSITIVE VOLUME SYSTEM

Volume level of this system goes up and down automatically in proportion to the vehicle speed. The control level can be selected by the customer. Refer to Owner's Manual for operating instructions.

FRONT AUXILIARY INPUT JACKS

- Image and sound can be output from an external device connected to the front auxiliary input jacks.
- AUX image signals are transmitted to each unit as follows:
- To the display unit via AV control unit.
- To the headrest display units via AV control unit and video distributor.
- AUX sound signals are transmitted to each unit as follows:
- To each speaker via AV control unit and BOSE speaker amp.
- To video distributor via AV control unit.
- Headphone sound signals are transmitted via infrared communication between headrest display units and headphones.

REAR ENTERTAINMENT SYSTEM

- Image and sound (DVD, USB memory-stored video data and front auxiliary input) played by AV control unit can be enjoyed in rear seat using headrest display units and headphones.
- Image and sound of an external device connected to rear auxiliary input jacks for rear seat can be enjoyed in rear seat using headrest display units and headphones. Also, image and sound from rear auxiliary input jacks can be selected and played individually on each side as well as on both sides.

NOTE:
Image signal and sound signal from rear auxiliary input jacks are not transmitted to front display unit and each speaker.

Operation Signal

- The rear entertainment system can be controlled by the rear seat remote control.
- The rear seat remote control transmits the operation signal to the remote control receiver built into headrest display units, which then transmits it to the AV control unit and video distributor.

Headphone Sound

- Sound signals output from AV control unit or rear auxiliary input jacks are transmitted to headrest display units via video distributor.
- Headphone sound signals are transmitted via infrared communication between headrest display units and headphones.

Headrest Display Units

- Composite image signals from AV control unit are transmitted to headrest display unit via video distributor.
- Image switch signals from headrest display units are transmitted to AV control unit and video distributor, according to rear seat remote control operation.
- When image switch signal is transmitted from headrest display unit to AV control unit via AV communication, image played by AV control unit (DVD, USB memory-stored video data, and front auxiliary input) switches.
- When image switch signal is transmitted from headrest display unit to video distributor, image output from AV control unit and image output from rear auxiliary input jacks switch.

AROUND VIEW MONITOR SYSTEM

- This system is equipped with wide-angle high-resolution cameras on the front and rear of the vehicle and on both right and left door mirrors. The images from front view, rear view, front-side view (RH side), and birds-eye view that shows the view from the top of the vehicle are displayed to monitor the vehicle surroundings.
- Around view monitor control unit cuts out and expands the image received from each camera to create each view.
- The sonar indicator is viewed on display (superimposed on the camera image) in combination with the camera assistance sonar system to warn of the approach of an obstacle.
- In front view and rear view, the vehicle width, distance lines and predictive course lines are superimposed and displayed. In front-side view, the vehicle distance guiding line and vehicle width guiding line are displayed.
- The Birds-Eye view converts the images from 4 cameras into the overhead view and displays the status of the vehicle. The vehicle icon and sonar indicator on the Birds-Eye view display are rendered by around view monitor control unit.

Around View Monitor Screen

- Around view monitor combines and displays the travel direction view and Birds-Eye view, Front-Side view and then displays the sonar indicator on the Birds-Eye view, Front-Side view, Rear wide view.
- AV control unit renders the Change View switch, view icon, warning message on display.

Operation Description

NOTE:

The first, second, and third camera image displayed when switched to the camera image display depends on the settings of Camera View Priority.

- Around view monitor operates by pressing the CAMERA switch on the multifunction switch and shifting the selector lever to the R position.
- When the selector lever is in any position other than R, the screen is switched to the around view monitor by pressing the CAMERA switch.
- The screen is switched to the around view monitor by shifting the selector lever to the R position.
- The around view monitor's, Birds-Eye view, Front-side view or rear wide view (rear only) can be switched by pressing the CAMERA switch.
- The around view monitor is cancelled 3 minutes after pressing the CAMERA switch, and the display returns to the previous screen.
- ON/OFF setting of sonar indicator display on the Front-Side view screen can be performed.
- In Birds-Eye view, the invisible area is displayed on the image to specify the boundary of the 4 cameras. The invisible area is displayed in yellow in the Birds-Eye view after turning the ignition switch ON.
- The sonar operates only when the camera screen is displayed.

SONAR SYSTEM

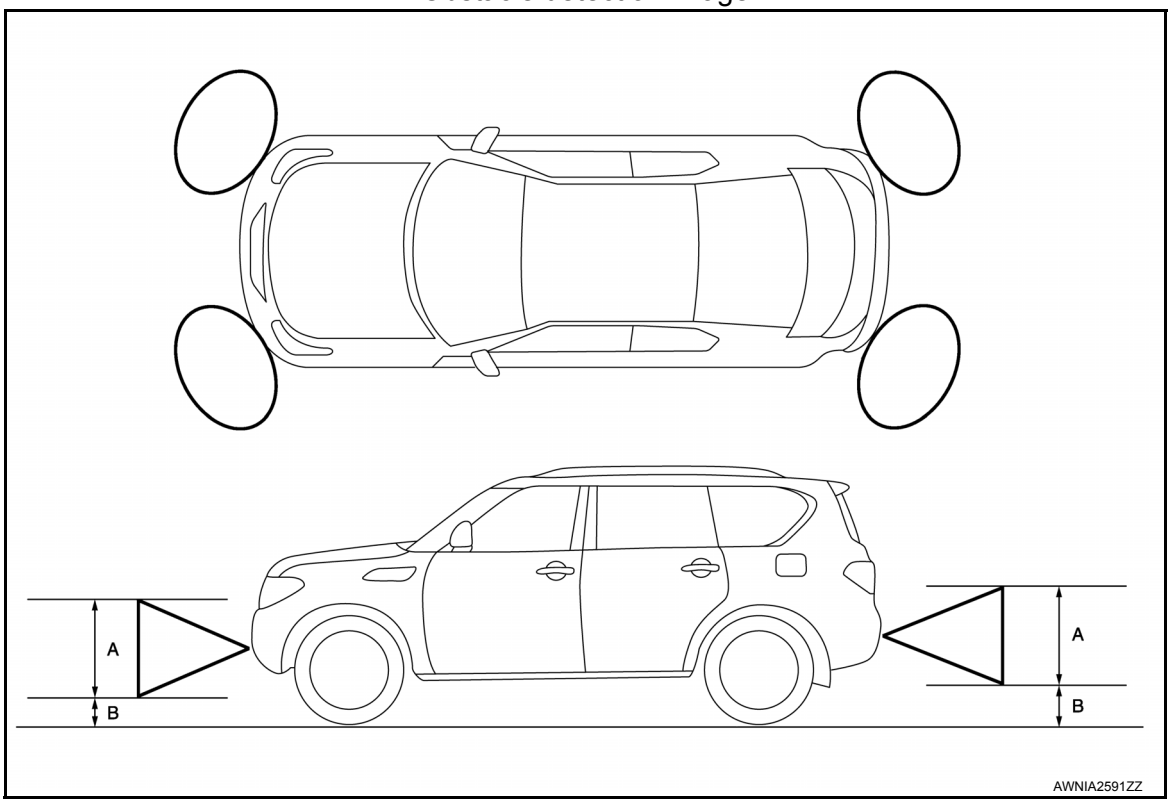
System Operation Description

- Around view monitor control unit transmits the sonar operation signal via CAN communication to sonar control unit to control the operation of sonar indicator and sonar buzzer.
- Sonar control unit transmits the detection signal and detection distance signal via CAN communication to around view monitor control unit. Around view monitor control unit operates the applicable sonar indicator.
- When receiving a sonar operation signal from the around view monitor control unit, the sonar control unit converts the signal into a detection distance signal and transmits it to the AV control unit via CAN communication. When receiving the detection signal, the AV control unit activates the speakers via the BOSE speaker amp.
- The sonar control unit is capable of self diagnosis. It can detect sensor malfunction or sensor harness open circuits. It transmits the diagnosis results to around view monitor control unit and always displays the sonar indicator in red to inform the vehicle operator.

Obstacle Detection Distance

- Sonar control unit changes the outputs of the sonar indicator and warning buzzer in 3 stages according to the obstacle detection distance from the corner sensor.
- The sonar control unit can change the setting of obstacle detection distance in 4 stages.

Obstacle detection image



A. Approx. 50 cm (19.6 in) B. Approx. 15 cm (5.9 in)

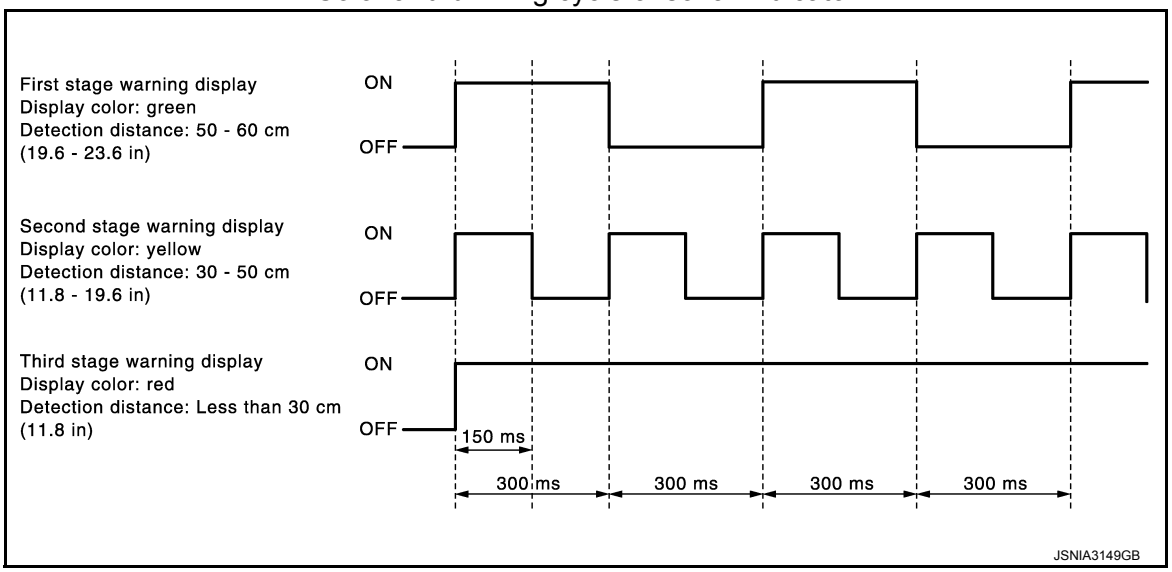
Detection distance

Warning item	Sensitivity level 1 (Fastest warning)	Sensitivity level 2 (Faster warning)	Sensitivity level 3 (Default value)	Sensitivity level 4 (Slower warning)
First stage warning	70 – 80 cm (27.5 – 31.4 in)	60 – 70 cm (23.6 – 27.5 in)	50 – 60 cm (19.6 – 23.6 in)	40 – 50 cm (15.7 – 19.6 in)
Second stage warning	50 – 70 cm (19.6 – 27.5 in)	40 – 60 cm (15.7 – 23.6 in)	30 – 50 cm (11.8 – 19.6 in)	30 – 40 cm (11.8 – 15.7 in)
Third stage warning	Less than 50 cm (19.6 in)	Less than 40 cm (15.7 in)	Less than 30 cm (11.8 in)	Less than 30 cm (11.8 in)

Sonar Indicator Display

- Around view monitor control unit that receives the detection signal and detection distance signal from sonar control unit displays the sonar indicator on display.
- Around view monitor control unit changes the color or blinking cycle of the indicator according to the detection distance.

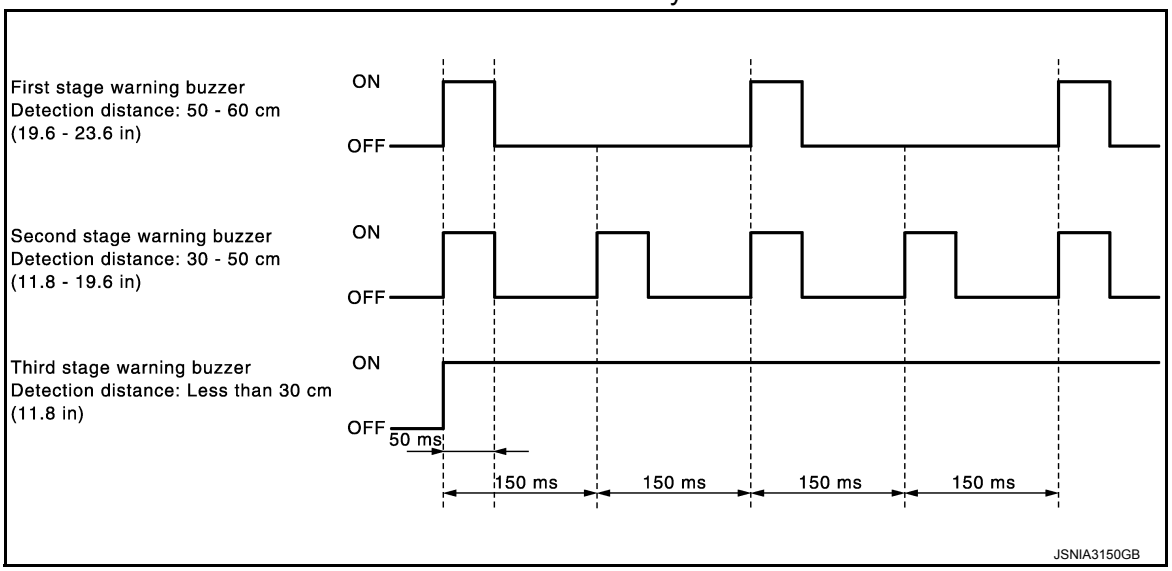
Color and blinking cycle of sonar indicator



Sonar Buzzer Operation

- Each sonar sensor transmits a sensor signal to the sonar control unit when detecting an obstacle.
- The sonar control unit converts a signal received from each sonar sensor into distance and transmits detection distance signal to the AV control unit via AV communication.
- The AV control unit transmits a buzzer signal to the BOSE amp. corresponding to each sonar sensor based on the received signal.
- When receiving a buzzer signal, the BOSE amp. transmits the buzzer signal to the each speaker. When each speaker receives a buzzer signal, a buzzer sounds.
- When the front corner sensor detects an obstacle, a buzzer is heard from the speakers on the front side.
- When the rear corner sensor detects an obstacle, a buzzer is heard from the speakers on the rear side.
- It changes the buzzer cycle in 3 stages according to the detection distance.

Sonar buzzer cycle



VEHICLE INFORMATION FUNCTION

- Status of audio, climate control system, fuel economy, maintenance and navigation are displayed.
- AV control unit displays the fuel consumption status while receiving data signal through CAN communication from ECM and combination meter.
- AV control unit is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.

INTELLIGENT KEY INTERLOCKING FUNCTION

The AV control unit recognizes a door-unlocked state of Intelligent Key according to an Intelligent Key recognition signal transmitted from BCM and saves two different types of audio settings and navigation settings.

Settings saved in the AV control unit

- Map display
- Route guidance
- Locator
- Route search
- Sound quality
- Radio preset
- Language

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Description

INFOID:0000000012849599

The AV control unit on board diagnosis includes the following functions:

- Multifunction switch and preset switch self diagnosis that checks the ON/OFF operation (continuity) of each switch in the multifunction switch and preset switch.
  NOTE:
  The hazard switch and disk eject switch are not included in this operation check.
- AV control unit on board diagnosis performs the following functions listed in the table below:

Mode			Description
Self Diagnosis			• AV control unit diagnosis. • Diagnoses the connections across system components, between AV control unit and GPS antenna.
Confirmation/ Adjustment	Display Diagnosis		The following check functions are available: color tone check by color bar display and white 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, reverse, side view switch and room lamp.
	Speaker Test		The connection of a speaker can be confirmed by test tone.
	Navigation	Steering Angle Adjustment	When there is a difference between the actual turning angle and the vehicle mark turning angle, it can be adjusted.
		Speed Calibration	When there is a difference between the current location mark and the actual location, it can be adjusted.
	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/Infiniti Connection		• The received volume adjustment of hands-free phone, microphone speaker check, and erase memory can be performed. • Diagnosis of the Infiniti Connection system can be performed.
	XM	XM NaviTrffic	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.
		XM NavWeather	
		XM CGS	
		Diag	
	Delete Unit Connection Log		Erase the connection history of unit and error history.
	Initialize Settings		Initializes the AV control unit memory.
	Version Information		Version information of the AV control unit is displayed.

Perform CONSULT diagnosis if the AV control unit on board diagnosis does not start, the screen does not display anything, or the multifunction switch and preset switch self diagnosis does not function.

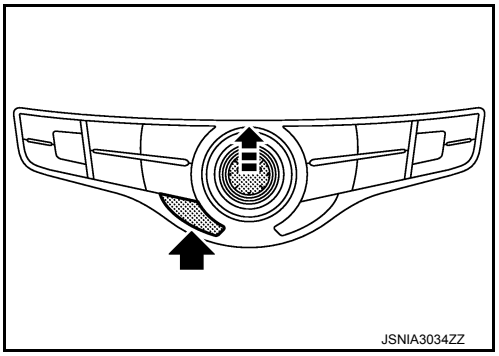
On Board Diagnosis Function

INFOID:0000000012849600

METHOD OF STARTING

Multifunction Switch and Preset Switch Self Diagnosis

- Press the BACK and UP 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 switches illuminate, and the self-diagnosis mode begins.
- The ON position continuity of each switch can be checked by pressing the switch. The buzzer sounds if continuity is present.
- The self diagnosis mode is canceled when the ignition switch is turned OFF.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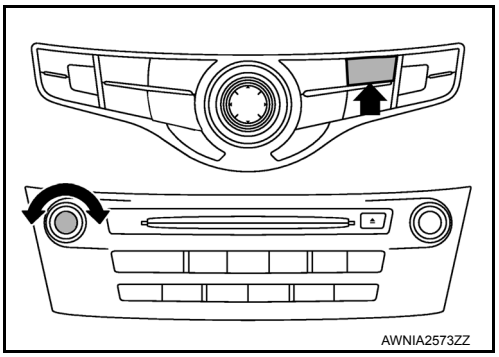
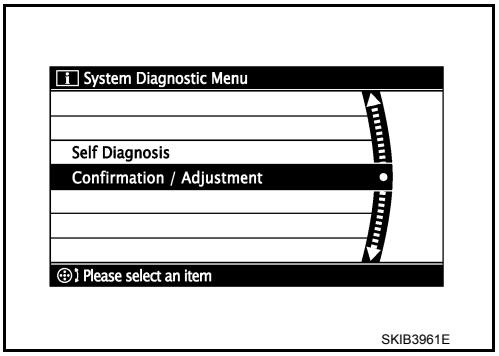
AV Control Unit Self Diagnosis

1. Turn the ignition ON.
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 self-diagnosis mode begins, a short beep will be heard. Shifting from current screen to previous screen is performed by pressing BACK button.


AWNIA2573ZZ

4. The trouble diagnosis initial screen is displayed, and Self Diagnosis or Confirmation/Adjustment can be selected.



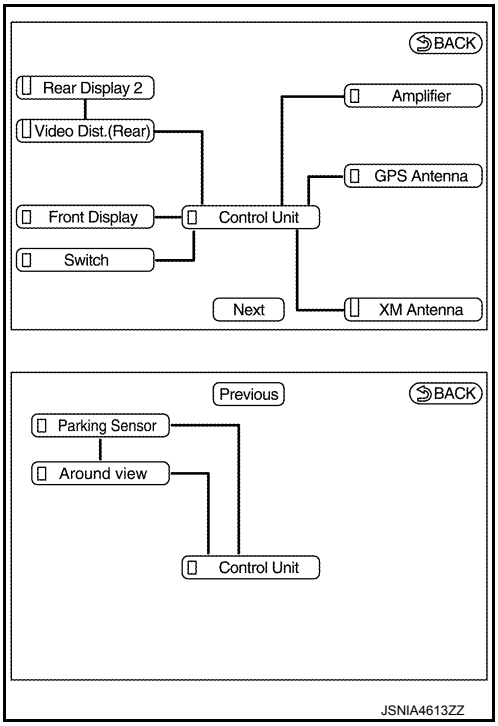
SKIB3961E

SELF DIAGNOSIS MODE

AV Control Unit Self Diagnosis

1. Select Self Diagnosis.
2. Self diagnosis screen is displayed. The bar graph visible in center of screen indicates progress of self diagnosis.

3. 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.

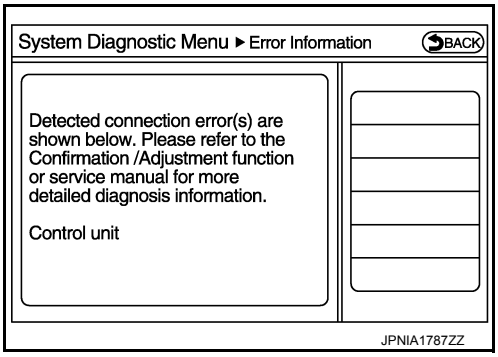


Diagnosis results	Unit	Connection line
Normal	Green	Green
Connection malfunction	Gray	Yellow
Unit malfunction [1]	Red	Green

1: Control Unit (AV control unit) is displayed in red.

- Replace AV control unit if Self Diagnosis did not run because control unit malfunction is indicated. The symptom is AV control unit internal error. Refer to AV-618, "Removal and Installation".
- 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.

4. Comments of self diagnosis results can be viewed in the diagnosis result screen.



AV Control Unit Self Diagnosis Results

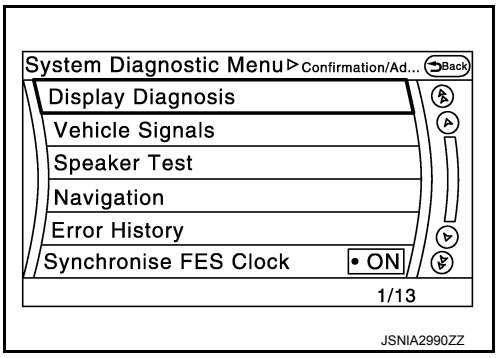
Only Unit Part Is Displayed In Red		
Screen switch	Description	Possible cause
Control Unit	Malfunction is detected in AV control unit power supply and ground circuits.	• AV control unit power supply or ground circuits. Refer to AV-552. • If no malfunction is detected in AV control unit power supply and ground circuits, replace AV control unit. Refer to AV-618.
Amplifier	When either one of the following items are detected: • sound signal circuits between BOSE amp. and each speaker are malfunctioning. • BOSE amp. malfunction is detected.	• Malfunctioning speaker circuits • Replace BOSE amp. Refer to AV-624.

A Connecting Cable Between Units Is Displayed In Yellow		
Area with yellow connection lines	Description	Possible cause
Control unit ⇔ Front Display	Serial communication circuits between AV control unit and front display unit are malfunctioning.	Serial communication circuits between AV control unit and front display unit.
Control unit ⇔ GPS Antenna	GPS antenna connection malfunctions detected.	Check the connection of the GPS antenna connector.
Control unit ⇔ XM Antenna	Satellite radio antenna connection malfunction is detected.	Satellite radio antenna disconnection
Control unit ⇔ Amplifier	When either one of the following items are detected: • BOSE amp. power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and BOSE amp. are malfunctioning.	• BOSE amp. power supply and ground circuits. Refer to AV-553. • AV communication circuits between AV control unit and BOSE amp.
Control unit ⇔ Around view Around view ⇔ Parking Sensor	When either one of the following items are detected: • around view monitor control unit power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and around view monitor control unit are malfunctioning.	• Around view monitor control unit power supply and ground circuits. • AV communication circuits between AV control unit and around view monitor control unit.
Control unit ⇔ Parking Sensor Around view ⇔ Parking Sensor	When either one of the following items are detected: • sonar control unit power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and sonar control unit are malfunctioning.	• Sonar control unit power supply and ground circuits. • AV communication circuits between AV control unit and sonar control unit.

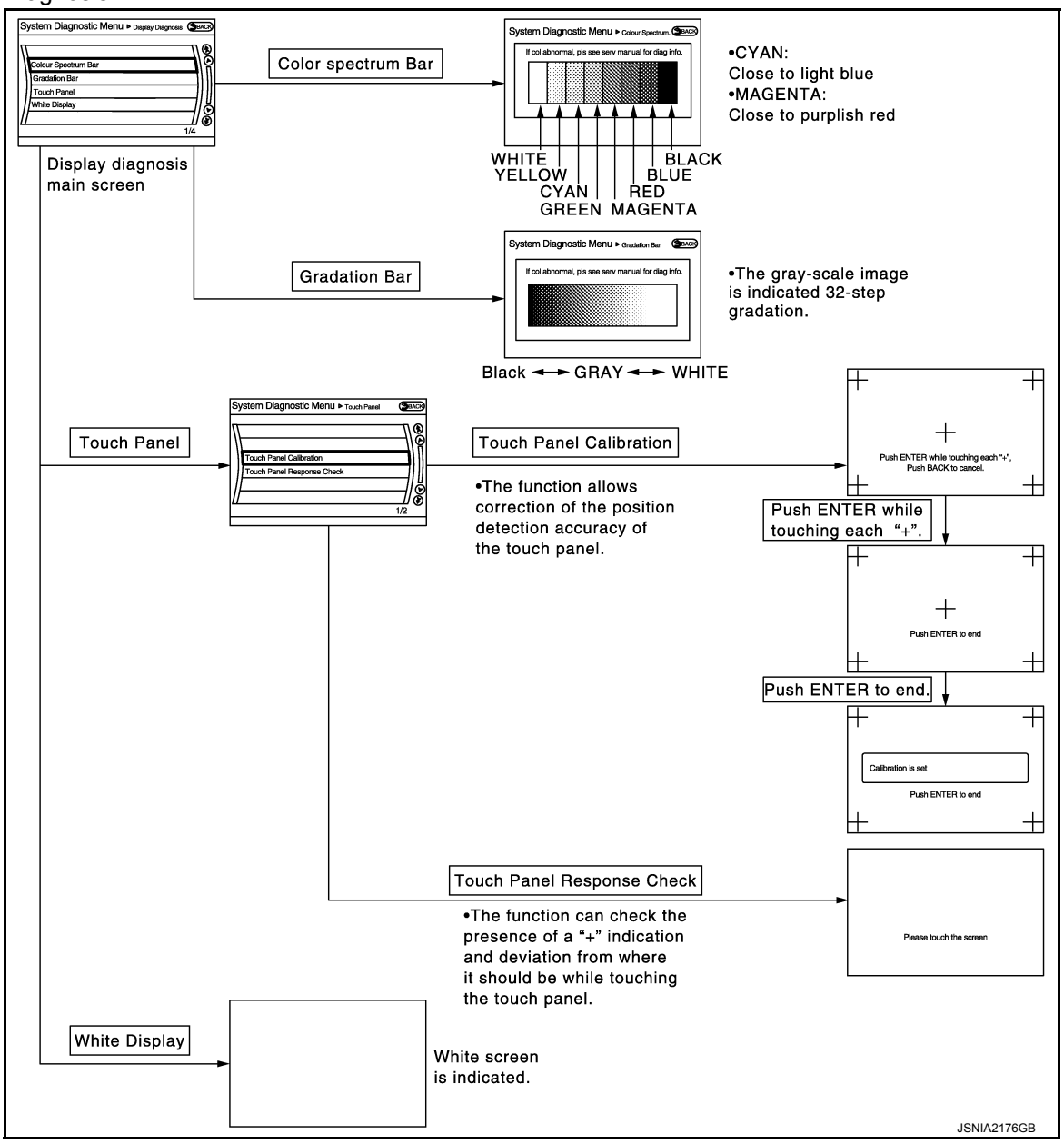
A Connecting Cable Between Units Is Displayed In Yellow		
Area with yellow connection lines	Description	Possible cause
Control unit ⇔ Video Dist.(Rear) Video Dist.(Rear) ⇔ Rear display 2	When either one of the following items are detected: • video distributor power supply and ground circuits are malfunctioning. • headrest display unit LH power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and headrest display unit LH are malfunctioning. • location recognition signal circuit between headrest display unit LH and ground is malfunctioning.	• Video distributor power supply and ground circuits. • Headrest display unit LH power supply and ground circuits. • AV communication circuits between AV control unit and headrest display unit LH. • Location recognition signal circuit between headrest display unit LH and ground.
Video Dist.(Rear) ⇔ Rear display 2	When either one of the following items are detected: • headrest display unit RH power supply and ground circuits are malfunctioning. • AV communication circuits between headrest display unit LH and headrest display unit RH are malfunctioning. • location recognition signal circuit between headrest display unit RH and ground is malfunctioning.	• Headrest display unit RH power supply and ground circuits. • AV communication circuits between headrest display unit LH and headrest display unit RH. • Location recognition signal circuit between headrest display unit RH and ground.

AV Control Unit Confirmation/Adjustment

1. Select Confirmation/Adjustment.
2. Select each switch on the Confirmation/Adjustment screen to display the relevant trouble diagnosis screen. Press the BACK switch to return to the initial Confirmation/Adjustment screen.

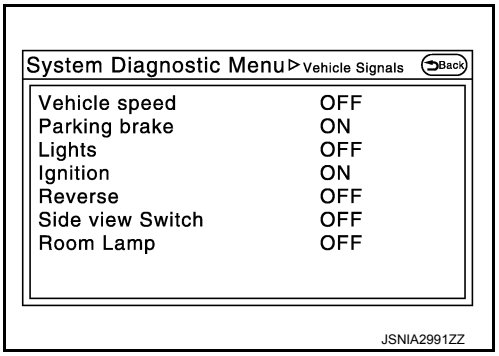


Display Diagnosis



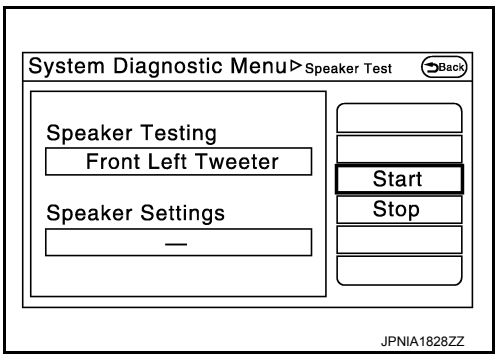
Vehicle Signals

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



Speaker Test

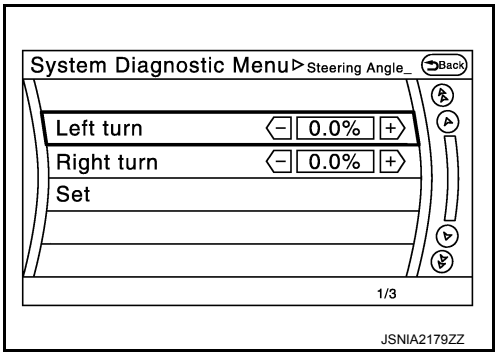
Select Speaker Test to display the Speaker Diagnosis screen. Press Start to generate a test tone in a speaker. Press Start again to generate a test tone in the next speaker. Press End to stop the test tones.



Navigation

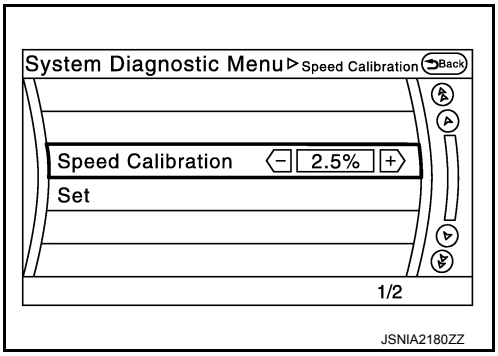
STEERING ANGLE ADJUSTMENT

The steering angle output value detected with the gyroscope is adjusted.



SPEED CALIBRATION

During normal driving, distance error caused by tire wear and tire pressure change is automatically adjusted for by the automatic distance correction function. This function, on the other hand, is for immediate adjustment, in cases such as driving with tire chain fitted on tires.



Error History

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

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

The error record displays the time and place of the most recent occurrence of that error. However, take note of the following points.

- If there is a malfunction with the GPS antenna circuit board in the AV control unit, the correct date and time of occurrence may not be able to be displayed.
- Place of the error occurrence is represented by the position of the current location mark at the time an error occurred. If current location mark has deviated from the correct position, then the place of the error occurrence cannot be located correctly.
- The frequency of occurrence is displayed in a count up manner. The actual count up method differs depending on the error item.

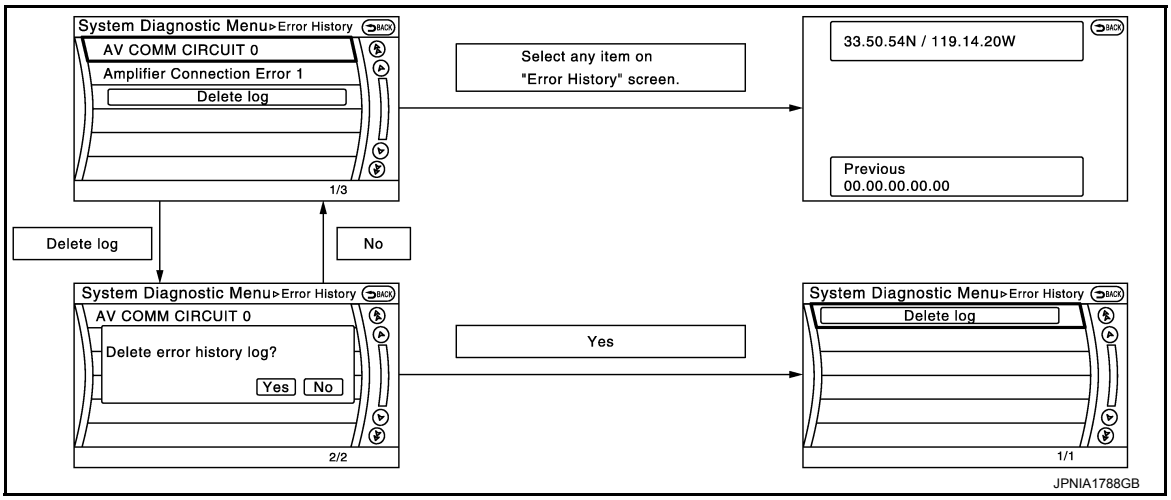
Count up method A

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

Count up method B

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

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



Error item

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

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-391, "CONSULT Function".
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-618, "Removal and Installation".
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.	
FLASH-ROM Error Of Control Unit	AV control unit malfunction is detected.	
Connection Of Gyro		
Connection of G Sensor		
CAN Controller Memory Error		
Bluetooth® Module Connection Error		
Sub CPU Connection Error		
Audio connection error		
DSP Connection Error	AV control unit malfunction is detected.	• If a disc can be played, then there is a possibility of the detection of a temporary malfunction. • Replace the AV control unit if the malfunction occurs constantly. Refer to AV-618, "Removal and Installation".
DSP Communication Error		

Error item	Description	Possible malfunction factor/Action to take
HDD Connection Error HDD Read Error HDD Write Error HDD Communication Error HDD Access Error	AV control unit malfunction is detected.	• There is a possibility of the detection of a temporary malfunction. • Replace the AV control unit if the malfunction occurs constantly. Refer to AV-618, "Removal and Installation".
GPS Communication Error GPS ROM Error GPS RAM Error GPS RTC Error	GPS malfunction is detected.	• An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. • Replace the AV control unit if the malfunction occurs constantly. Refer to AV-618, "Removal and Installation".
Unfinished configuration	The writing of configuration data is incomplete.	Write configuration data with CONSULT.
USB Controller Communication Error	USB connection malfunction is detected.	Check that the connection to the USB connector is normal.
DVD Mechanism Communication Error	AV control unit malfunction is detected.	• If DVD can be played, then there is a possibility of the detection of a temporary malfunction. • Replace the AV control unit if the malfunction occurs constantly. Refer to AV-618, "Removal and Installation".
Steer. Angle Sensor Calibration	Predictive course line center position adjustment of the steering angle sensor is incomplete.	Adjust the predictive course line center position of the steering angle sensor. Refer to AV-483, "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Work Procedure".
Amplifier Temperature Error	BOSE amp. malfunction is detected.	Replace the BOSE amp. Refer to AV-624, "Removal and Installation".
Front Display Connection Error	When either one of the following items are detected: • front display unit power supply and ground circuits are malfunctioning. • Serial communication circuits between AV control unit and front display unit are malfunctioning.	• Front display unit power supply and ground circuits. • Serial communication circuits between AV control unit and front display unit.
• AV COMM CIRCUIT • 2nd Display Connection Error	When either one of the following items are detected: • video distributor power supply and ground circuits are malfunctioning. • headrest display unit LH power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and headrest display unit LH are malfunctioning. • location recognition signal circuit between headrest display unit LH and ground is malfunctioning.	• Video distributor power supply and ground circuits. • Headrest display unit LH power supply and ground circuits. • AV communication circuits between AV control unit and headrest display unit LH. • Location recognition signal circuit between headrest display unit LH and ground.

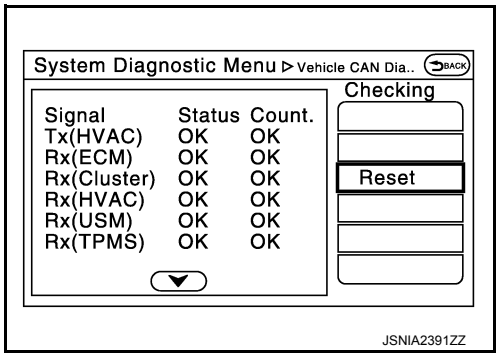
Error item	Description	Possible malfunction factor/Action to take
3rd Display Connection Error	When either one of the following items are detected: • headrest display unit RH power supply and ground circuits are malfunctioning. • AV communication circuits between headrest display unit LH and headrest display unit RH are malfunctioning. • location recognition signal circuit between headrest display unit RH and ground is malfunctioning.	• Headrest display unit RH power supply and ground circuits. • AV communication circuits between headrest display unit LH and headrest display unit RH. • Location recognition signal circuit between headrest display unit RH and ground.
AM/FM antenna amplifier short to ground	Radio antenna amp. ON signal circuit malfunction is detected.	Radio antenna amp. ON signal circuit between AV control unit and antenna amp.
AM/FM antenna amplifier open		
Ext_Amp_ON output terminal short to ground	BOSE amp. ON signal circuit malfunction is detected.	BOSE amp. ON signal circuit between AV control unit and BOSE amp.
Ext_Amp_ON output terminal:open		
GPS Antenna Error	GPS antenna connection malfunction is detected.	Check the connection of the GPS antenna connector.
XM Antenna Connection Error	Satellite radio antenna connection malfunction is detected.	Satellite radio antenna disconnection.
USB electric current Error	Detection of overcurrent in USB connector.	Check USB harness between the AV control unit and USB connector.
FL-DOOR SPEAKER OUT: open	When either one of the following items are detected: • sound signal circuits between BOSE amp. and front door speaker LH are malfunctioning. • sound signal circuits between BOSE amp. and front door tweeter LH are malfunctioning.	• Sound signal circuits between BOSE amp. and front door speaker LH. • Sound signal circuits between BOSE amp. and front door tweeter LH.
FL-DOOR SPEAKER OUT: short		
FL-DOOR SPEAKER: short to ground		
FL-DOOR SPEAKER: short to battery		
FL-DOOR TWEETER OUT: open		
FL-DOOR TWEETER OUT: short		
FL-DOOR TWEETER OUT: short to ground		
FL-DOOR TWEETER OUT: short to battery		
FR-DOOR SPEAKER OUT: open	When either one of the following items are detected: • sound signal circuits between BOSE amp. and front door speaker RH are malfunctioning. • sound signal circuits between BOSE amp. and front door tweeter RH are malfunctioning.	• Sound signal circuits between BOSE amp. and front door speaker RH. • Sound signal circuits between BOSE amp. and front door tweeter RH.
FR-DOOR SPEAKER OUT: short		
FR-DOOR SPEAKER OUT: short to ground		
FR-DOOR SPEAKER OUT: short to battery		
FR-DOOR TWEETER OUT: open		
FR-DOOR TWEETER OUT: short		
FR-DOOR TWEETER OUT: short to ground		
FR-DOOR TWEETER OUT: short to battery		
FL-INST TWEETER OUT: open	Sound signal circuits between BOSE amp. and tweeter LH are malfunctioning.	Sound signal circuits between BOSE amp. and tweeter LH.
FL-INST TWEETER OUT: short		
FL-INST TWEETER OUT: short to ground		
FL-INST TWEETER OUT: short to battery		
FC-INST SPEAKER OUT: open	Malfunction is detected sound signal circuits between BOSE amp. and center speaker.	Sound signal circuits between BOSE amp. and center speaker.
FC-INST SPEAKER OUT: short		
FC-INST SPEAKER OUT: short to ground		
FC-INST SPEAKER OUT: short to battery		

Error item	Description	Possible malfunction factor/Action to take
FR-INST TWEETER OUT: open FR-INST TWEETER OUT: short FR-INST TWEETER OUT: short to ground FR-INST TWEETER OUT: short to battery	Sound signal circuits between BOSE amp. and tweeter RH are malfunctioning.	Sound signal circuits between BOSE amp. and tweeter RH.
2L-DOOR SPEAKER OUT: open 2L-DOOR SPEAKER OUT: short 2L-DOOR SPEAKER OUT: short to ground 2L-DOOR SPEAKER OUT: short to battery	Sound signal circuits between BOSE amp. and rear door speaker LH are malfunctioning.	Sound signal circuits between BOSE amp. and rear door speaker LH.
2R-DOOR SPEAKER OUT: open 2R-DOOR SPEAKER OUT: short 2R-DOOR SPEAKER OUT: short to ground 2R-DOOR SPEAKER OUT: short to battery	Sound signal circuits between BOSE amp. and rear door speaker RH are malfunctioning.	Sound signal circuits between BOSE amp. and rear door speaker RH.
RL-SPEAKER OUT: open RL-SPEAKER OUT: short RL-SPEAKER OUT: short to ground RL-SPEAKER OUT: short to battery	Sound signal circuits between BOSE amp. and rear speaker LH are malfunctioning.	Sound signal circuits between BOSE amp. and rear speaker LH.
RR-SPEAKER OUT: open RR-SPEAKER OUT: short RR-SPEAKER OUT: short to ground RR-SPEAKER OUT: short to battery	Sound signal circuits between BOSE amp. and rear speaker RH are malfunctioning.	Sound signal circuits between BOSE amp. and rear speaker RH.
SUBWOOFER OUT: open SUBWOOFER OUT: short SUBWOOFER OUT: short to ground SUBWOOFER OUT: short to battery	Sound signal circuits between BOSE amp. and subwoofer are malfunctioning.	Sound signal circuits between BOSE amp. and subwoofer.
• AV COMM CIRCUIT • Switches Connection Error	When either one of the following items are detected: • Multifunction switch power supply and ground circuits were malfunctioning. • AV communication circuits between AV control unit and multifunction switch are malfunctioning.	• Multifunction switch power supply and ground circuits. • AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT • Amplifier Connection Error	When either one of the following items are detected: • BOSE amp. power supply and ground circuits are malfunctioning. • AV communication circuits between headrest display unit LH and BOSE amp. are malfunctioning.	• BOSE amp. power supply and ground circuits. Refer to AV-553, "BOSE AMP. : Diagnosis Procedure". • AV communication circuits between headrest display unit LH and BOSE amp.
• AV COMM CIRCUIT • AVM Connection Error	When either one of the following items are detected: • around view monitor control unit power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and around view monitor control unit are malfunctioning.	• Around view monitor control unit power supply and ground circuits. • AV communication circuits between AV control unit and around view monitor control unit.

Error item	Description	Possible malfunction factor/Action to take
• AV COMM CIRCUIT • Sonar Connection Error	When either one of the following items are detected: • sonar control unit power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and sonar control unit are malfunctioning.	• Sonar control unit power supply and ground circuits. • AV communication circuits between AV control unit and sonar control unit.
• AV COMM CIRCUIT • Switches Connection Error • Sonar Connection Error • AVM Connection Error • 2nd Display Connection Error	AV communication circuits between AV control unit and multifunction switch are malfunctioning.	AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT • Switches Connection Error • Amplifier Connection Error • Sonar Connection Error • AVM Connection Error • 2nd Display Connection Error		

Vehicle CAN Diagnosis

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

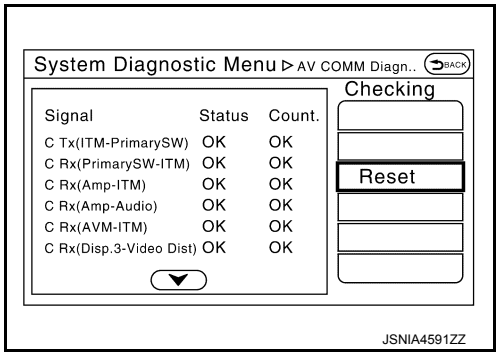


Items	Display (Current)	Malfunction counter (Past)
Tx(HVAC)	OK / ???	OK / 0 – 39
Rx(ECM)	OK / ???	OK / 0 – 39
Rx(Cluster)	OK / ???	OK / 0 – 39
Rx(HVAC)	OK / ???	OK / 0 – 39
Rx(USM)	OK / ???	OK / 0 – 39
Rx(TPMS)	OK / ???	OK / 0 – 39
Rx(STRG)	OK / ???	OK / 0 – 39
Rx(ACC)	OK / ???	OK / 0 – 39
RX(VDC)	OK / ???	OK / 0 – 39

NOTE:
“???” indicates UNKWN.

AV COMM Diagnosis

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



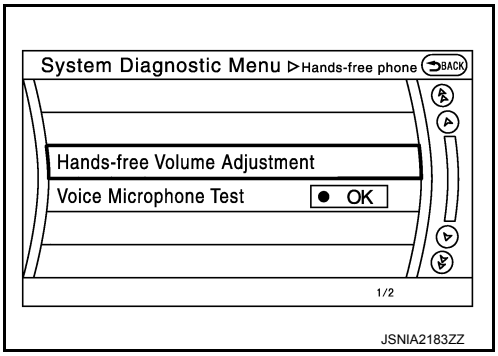
Items	Status (Current)	Counter (Past)
C Tx(ITM–PrimarySW)	OK / ???	OK / 0 – 39
C Rx(PrimarySW–ITM)	OK / ???	OK / 0 – 39
C Rx(Amp–ITM)	OK / ???	OK / 0 – 39

Items	Status (Current)	Counter (Past)
C Rx(Amp–Audio)	OK / ???	OK / 0 – 39
C Rx(AVM–ITM)	OK / ???	OK / 0 – 39
C Rx(Disp.3–Video Dist)	OK / ???	OK / 0 – 39
C Rx(Video Dist–ITM)	OK / ???	OK / 0 – 39
C Rx(Sonar–ITM)	OK / ???	OK / 0 – 39
C Rx(Sonar–AVM)	OK / ???	OK / 0 – 39
C Rx(R.RemoteCont–ITM)	OK / ???	OK / 0 – 39

NOTE:
"???" indicates UNKWN

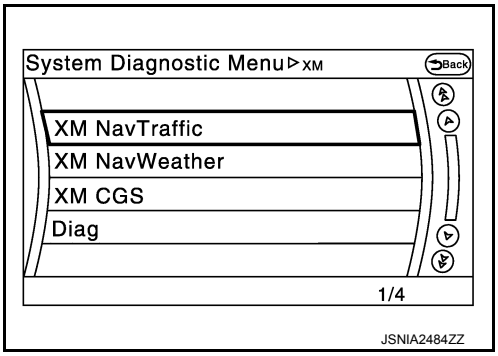
Hands-Free Phone

The hands-free phone reception volume adjustment and microphone and speaker test functions are also available.



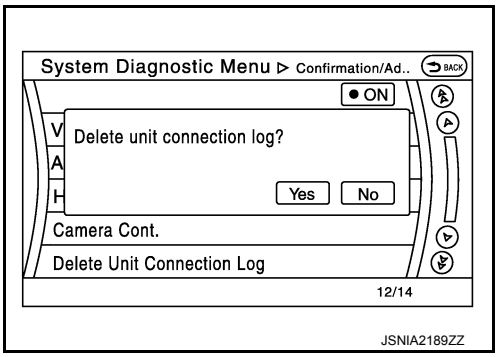
XM

- Change Channel
  - Any necessary channels required to receive traffic information from the satellite radio system can be set.
- Change Application ID
  - Any application ID'-s required to receive traffic information from the satellite radio system can be set.



Delete Unit Connection Log

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

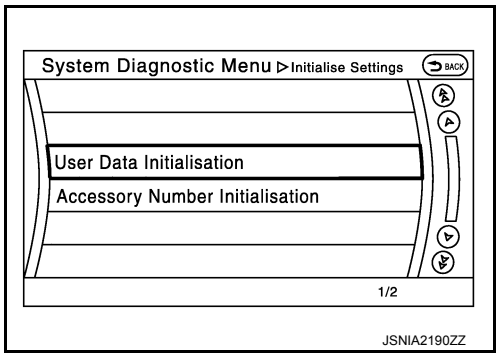


Initialize Settings

"User Data Initialization" and "Accessory Number Initialization" are possible.

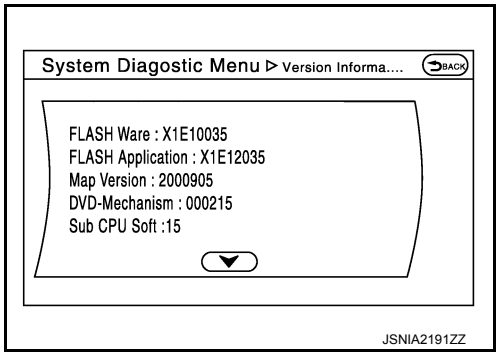
CAUTION:

- **Never perform Accessory Number Initialization except when configuration is unsuccessful.**
- **Accessory Number Initialization requires configuration. For details, refer to AV-478, "CONFIGURATION (AV CONTROL UNIT) : Description".**



Version Information

Version information of the AV control unit is displayed.



CONSULT Function

INFOID:0000000012849601

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

CONSULT FUNCTIONS

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

Direct Diagnostic Mode	Description
ECU Identification	The AV control unit part number is displayed.
Self Diagnostic Result	The AV control unit self diagnostic results are displayed.
Data Monitor	The AV control unit input/output data is displayed in real time.
Work support	The settings for AV control unit functions can be changed.
Configuration	• The vehicle specification can be read and saved. • The vehicle specification can be written when replacing AV control unit.
CAN Diag Support Mntr	• The result of transmit/receive diagnosis of AV communication is displayed. • The result of transmit/receive diagnosis of CAN communication is displayed.

ECU IDENTIFICATION

The part number of AV control unit is displayed.

SELF DIAGNOSTIC RESULT

Refer to AV-405, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
VHCL SPD SIG [On/Off]	Indicates vehicle speed signal received from combination meter on CAN communication line.
PKB SIG [On/Off]	Indicates condition of park brake signal.
ILLUM SIG [On/Off]	Indicates condition of illumination signal for the multifunction switch and preset switch.
IGN SIG [On/Off]	Indicates condition of ignition signal.
REV SIG [On/Off]	Indicates condition of reverse signal received from BCM.

WORK SUPPORT

Conditions	Description
ST ANGLE SENSOR ADJUSTMENT	Steering angle sensor neutral position adjustment can be performed. Refer to BRC-82, "Description" .

CONFIGURATION

Refer to AV-478, "CONFIGURATION (AV CONTROL UNIT) : Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-25, "CAN Diagnostic Support Monitor".

DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT)

CONSULT Function

INFOID:0000000012849602

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

CONSULT FUNCTIONS

CONSULT performs the following functions via communication with the around view monitor control unit.

Direct Diagnostic Mode	Description
ECU Identification	The around view monitor control unit part number is displayed.
Self Diagnostic Result	The around view monitor control unit self diagnostic results are displayed.
Data Monitor	The around view monitor control unit input/output data is displayed in real time.
Work support	The settings for around view monitor control unit functions can be changed.
Configuration	• The vehicle specification can be read and saved. • The vehicle specification can be written when replacing around view monitor control unit.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

ECU IDENTIFICATION

The part number of around view monitor control unit is displayed.

SELF DIAGNOSTIC RESULT

Refer to AV-424, "DTC Index".

DATA MONITOR

Monitor Item	Description
ST ANGLE SENSOR SIGNAL [On/Off]	Indicates condition of steering angle sensor signal.
REVERSE SIGNAL [On/Off]	Indicates selector lever position.
VEHICLE SPEED SIGNAL [mph/km/h]	Indicates condition of vehicle speed signal.
CAMERA SWITCH SIGNAL [On/Off]	Indicates condition of camera switch signal.
CAMERA OFF SIGNAL [On/Off]	Indicates condition of camera OFF signal.
ST ANGLE SENSOR TYPE [Absolute]	Indicates steering angle sensor type.
ST GEAR RATIO TYPE [Type O]	Indicates steering gear ratio type.
STEERING POSITION [LHD/RHD]	Indicates drive type.
REAR CAMERA IMAGE SIGNAL [OK]	Indicates condition of camera image signal.
R-CAMERA COMM STATUS [OK]	Indicates condition of camera communication.
R-CAMERA COMM LINE [OK]	Indicates condition of camera communication signal.
F-CAMERA IMAGE SIGNAL [OK]	Indicates condition of camera image signal.
F-CAMERA COMM STATUS [OK]	Indicates condition of camera communication.
F-CAMERA COMM LINE [OK]	Indicates condition of camera communication signal.
DR-SIDE CAMERA IMAGE SIG [OK]	Indicates condition of camera image signal.
DR CAMERA COMM STATUS [OK]	Indicates condition of camera communication.
DR-SIDE CAMERA COMM LINE [OK]	Indicates condition of camera communication signal.
PA-SIDE CAMERA IMAGE SIG [OK]	Indicates condition of camera image signal.
PA CAMERA COMM STATUS [OK]	Indicates condition of camera communication.
PA-SIDE CAMERA COMM LINE [OK]	Indicates condition of camera communication signal.
ACC [OK]	indicates condition of accessory signal.

Monitor Item	Description
FOLDING MOTOR VOLT 1 [On/Off]	indicates condition of mirror folding motor.
FOLDING MOTOR VOLT 2 [On/Off]	indicates condition of mirror folding motor.

WORK SUPPORT

Support Item	Setting	Description
NON-VIEWABLE AREA REMINDER	—	ON/OFF setting of non-viewable area can be performed.
INITIALIZE CAMERA IMAGE CALIBRATION	—	Factory image calibration restoration can be performed.
STEERING ANGLE SENSOR ADJUSTMENT	—	Steering angle sensor neutral position adjustment can be performed.
CALIBRATING CAMERA IMAGE (FRONT CAMERA)	STATUS	Performs calibration of front camera.
	AXIS X	
	AXIS Y	
	ROTATE	
CALIBRATING CAMERA IMAGE (PASS-SIDE CAMERA)	STATUS	Performs calibration of passenger side camera.
	AXIS X	
	AXIS Y	
	ROTATE	
CALIBRATING CAMERA IMAGE (DR-SIDE CAMERA)	STATUS	Performs calibration of driver side camera.
	AXIS X	
	AXIS Y	
	ROTATE	
CALIBRATING CAMERA IMAGE (REAR CAMERA)	STATUS	Performs calibration of rear view camera.
	AXIS X	
	AXIS Y	
	ROTATE	
FINE TUNING OF BIRDS-EYE VIEW	STATUS	Confirmation and adjustment of difference between each camera can be performed.
	SELECT	
	AXIS X	
	AXIS Y	
	ROTATE	
REAR WIDE-VIEW FIXED GUIDE LINE CORRECTION	STATUS	Performs calibration of rear wide-view guide line correction.
	AXIS X	
	AXIS Y	
	Pattern	
TURNING RADIUS CORRECTION	STATUS	Performs calibration of turning radius correction.
	Crrct	
PARTS WITH DOOR MIRROR AUTO FOLD FUNC	On	Performs setting of auto fold mirror function.
	Off	
SONAR Off POP-UP DISPLAY SETTING CHANGE	On	Performs setting of sonar pop-up display.
	Off	
FRONT WIDE-VIEW FIXED GUIDE LINE CORRECTION	STATUS	Performs calibration of front wide-view guide line correction.
	AXIS X	
	AXIS Y	
	Pattern	

Support Item	Setting	Description
ZOOM FUNCTION	STATUS	Adjustment of magnification setting of cameras can be performed.
	SELECT	
	Mgnfct	

CONFIGURATION

Refer to AV-480, "CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-25, "CAN Diagnostic Support Monitor".

DIAGNOSIS SYSTEM [SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)]

CONSULT Function

INFOID:0000000012849603

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

APPLICATION ITEMS

CONSULT can display each diagnostic item using the diagnostic test modes shown as follows:

Test mode	Function
ECU Identification	Sonar control unit part number can be read.
Self Diagnostic Result	Sonar control unit checks the conditions and displays memorized error.
Data Monitor	Sonar control unit input/output data in real time.
Active Test	Gives a drive signal to a load to check the operation.
Work support	Changes setting of each function.

ECU IDENTIFICATION

Displays the part number of sonar control unit.

SELF-DIAGNOSTIC RESULTS

For details, refer to AV-428, "DTC Index".

DATA MONITOR

Monitor Item	Description
VEHICLE SPEED [mph/km/h]	Indicates vehicle speed signal received from combination meter on CAN communication line.
SONAR C/U POWER SUPPLY [V]	Indicates condition of supply voltage signal to sonar control unit.
SENSOR VOLTAGE [V]	Indicates condition of voltage signal to sonar sensors.
DETECTION MODE [Mode 1/Mode 2]	Indicates condition of display detection mode.
SW OPRT AFTR IGN ON [Yes/No]	Indicates condition of switch operation after ignition ON signal.
SONAR TEMPORARY OFF [Yes/No]	Indicates condition of sonar system.
SONAR PERMANENT OFF [Yes/No]	Indicates condition of sonar system.
P N RANGE [On/Off]	Indicates condition of selector lever P (park) or N (neutral) position.
LED [On/Off]	Indicates condition of LED.
TRAILER CONNECT [CON/N CON]	Indicates condition of Trailer connector.
REVERSE RANGE [On/Off]	Indicates condition of transmission range switch R (reverse) position.

Monitor Item	Description
SHRT DST FRM RR SENS [cm/in]	Indicates distance to obstacle.
SHRT DST FRM FR SENS [cm/in]	
COR[RL] [cm/in]	
COR[RL]->CEN[RL]/CEN[R] [cm/in]	
CEN[RL]/CEN[R]->COR[RL] [cm/in]	
CEN[RL]/CEN[R] [cm/in]	
CEN[RL]->CEN[RR] [cm/in]	
CEN[RR]->CEN[RL] [cm/in]	
CEN[RR] [cm/in]	
CEN[RR]/CEN[R]->COR[RR] [cm/in]	
COR[RR]-> CEN[RR]/CEN[R] [cm/in]	
COR[RR] [cm/in]	
COR[FL] [cm/in]	
COR[FL]->CEN[FL]/CEN[F] [cm/in]	
CEN[FL]/CEN[F]->COR[FL] [cm/in]	
CEN[FL]/CEN[F] [cm/in]	
CEN[FL]->CEN[FR] [cm/in]	
CEN[FR]->CEN[FL] [cm/in]	
CEN[FR] [cm/in]	
CEN[FR]/CEN[F]->COR[FR] [cm/in]	
COR[FR]-> CEN[FR]/CEN[F] [cm/in]	
COR[FR] [cm/in]	
RVRB TIME COR[RL] [ms/sec]	Indicates distance to obstacle.
RVRB TIME COR[RR] [ms/sec]	
RVRB TIME CEN[RL] [ms/sec]	
RVRB TIME CEN[RR] [ms/sec]	
RVRB TIME COR[FL] [ms/sec]	
RVRB TIME COR[FR] [ms/sec]	
RVRB TIME CEN[FL] [ms/sec]	
RVRB TIME CEN[FR] [ms/sec]	

ACTIVE TEST

Test Item	Description
REAR BUZZER	This test is able to check rear buzzer operation [On/Off].

WORK SUPPORT

Support Item	Setting	Description
VOLUME SETTING	Vol.1	Allows you to set volume of warning tone.
	Low	
	Vol.3	
	Middle	
	Vol.5	
	High	
	Off	

Support Item	Setting	Description
TRAILER HITCH DETECTION RANGE ADJUSTMENT	Qu	Allows you to adjust rear sonar sensors for trailer towing.
	UP	
	DOWN	
	Qd	

ECU DIAGNOSIS INFORMATION

AV CONTROL UNIT

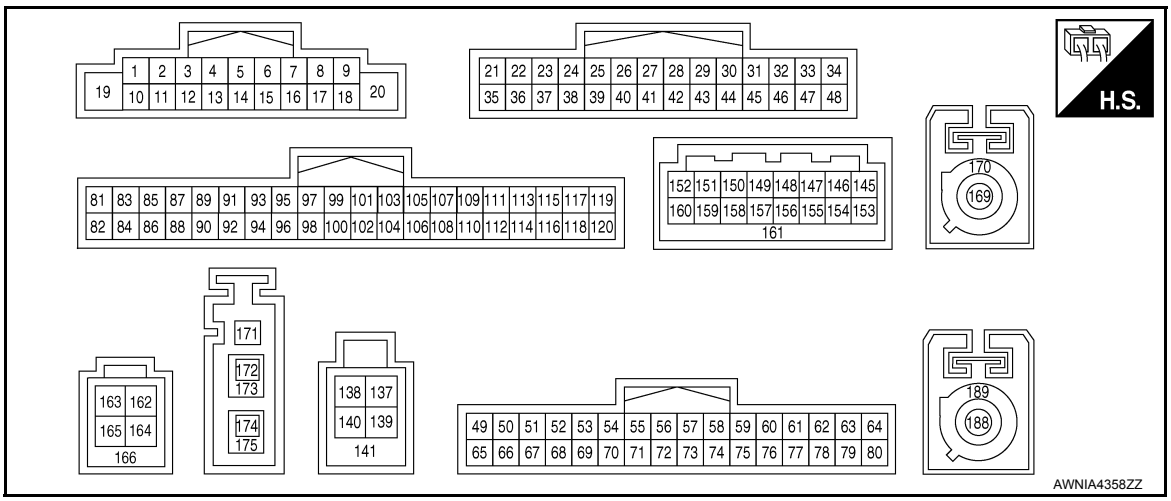
Reference Value

INFOID:0000000012849604

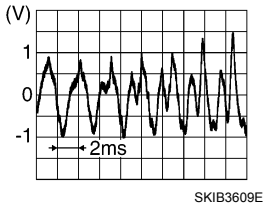
VALUES ON THE DIAGNOSIS TOOL

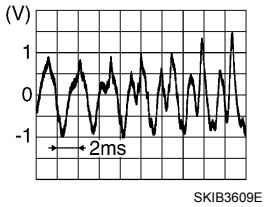
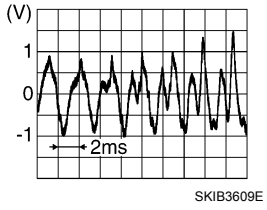
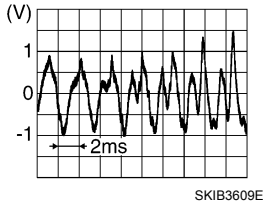
Monitor Item	Condition	Value/Status
VHCL SPD SIG	Vehicle speed = 0 km/h (0 MPH).	Off
	Vehicle speed > 0 km/h (0 MPH).	On
PKB SIG	Parking brake released.	Off
	Parking brake applied.	On
ILLUM SIG	Illumination signal is not received.	Off
	Illumination signal is received.	On
IGN SIG	Ignition switch OFF or ACC.	Off
	Ignition switch ON.	On
REV SIG	Selector lever in any position other than R.	Off
	Selector lever in R position.	On

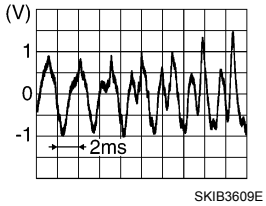
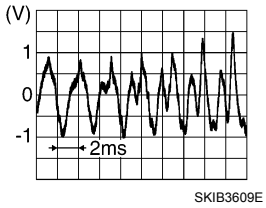
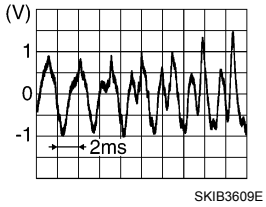
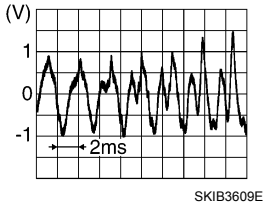
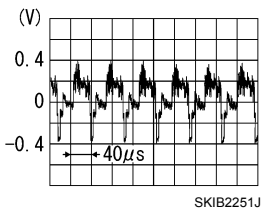
TERMINAL LAYOUT

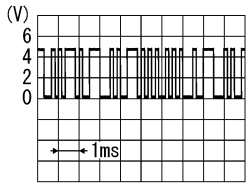
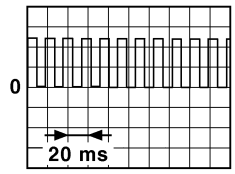
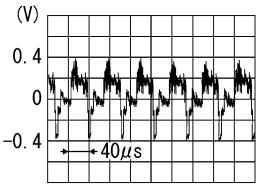


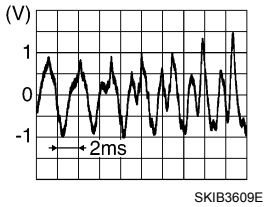
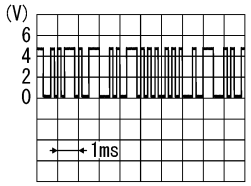
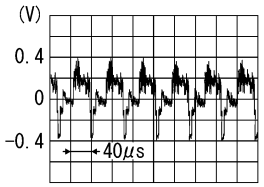
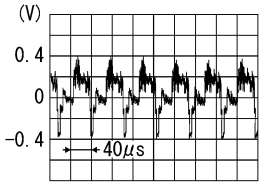
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (SB)	Ground	BOSE amp. ON signal	Output	ACC	—	Battery voltage
2 (B)	3 (W)	Pre amp sound signal front LH	Output	ON	Sound output	

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
4 (B)	5 (W)	Pre amp sound signal rear LH	Output	ON	Sound output	
6 (G)	15 (B)	Steering switch signal A	Input	ON	Press SOURCE switch.	0 V
					Press △ switch.	1.0 V
					Press ▽ switch.	2.0 V
					Press switch	3.0 V
					Press ENTER switch.	4.0 V
					Except for above.	5.0 V
7[1] (G)	Ground	ACC power supply	Input	ACC	—	Battery voltage
7[2] (P)	Ground	ACC power supply	Input	ACC	—	Battery voltage
10 (BR)	—	Pre amp sound signal shield	—	—	—	—
11 (W)	12 (B)	Pre amp sound signal front RH	Output	ON	Sound output	
13 (B)	14 (W)	Pre amp sound signal rear RH	Output	ON	Sound output	
16 (W)	15 (B)	Steering switch signal B	Input	ON	Press switch.	0 V
					Press switch.	1.0 V
					Press switch.	2.0 V
					Press switch.	3.0 V
					Except for above.	5.0 V
19 (Y)	Ground	Battery power supply	Input	OFF	—	Battery voltage
20 (GR)	Ground	Ground	—	ON	—	0 V

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
24 (W)	39 (B)	Auxiliary sound signal LH	Input	ON	Sound output when front AUX mode selected	 SKIB3609E
26 (W)	40 (R)	Headphone sound signal LH	Output	ON	When DVD or USB mode is selected on headrest display unit LH or RH	 SKIB3609E
27 (B)	41 (G)	Headphone sound signal RH	Output	ON	When DVD or USB mode is selected on headrest display unit LH or RH	 SKIB3609E
37 (Shield)	—	Auxiliary sound signal shield	—	—	—	—
38 (R)	39 (B)	Auxiliary sound signal RH	Input	ON	Sound output when front AUX mode selected	 SKIB3609E
42 (Shield)	—	Headphone sound signal shield	—	—	—	—
53 (G)	Ground	Parking brake signal	Input	ON	Parking brake is applied	0 V
					Parking brake is released	Battery voltage
55 (W)	Ground	Composite image signal ground	—	ON	—	0 V
56 (B)	Ground	Composite image signal	Output	ON	When DVD image is displayed	 SKIB2251J
57 (BG)	—	I-Key memory	—	—	—	—
58 (G)	—	AV-ACC (DCM)	—	—	—	—

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
59 (Shield)	—	Microphone signal shield	—	—	—	—
60 (W)	Ground	Microphone voltage	Output	ON	—	5.0 V
61 (W)	Ground	Communication signal (CONT→DISP)	Output	ON	When adjusting display brightness	 PKIB5039J
62 (P)	—	CAN L	Input/ Output	—	—	—
63 (LG)	—	AV communication signal (L)	Input/ Output	—	—	—
64 (LG)	—	AV communication signal (L) terminate	—	—	—	—
67 (P)	—	MR output	—	—	—	—
68 (LG)	Ground	Ignition signal	Input	ON	—	Battery voltage
69 (R)	Ground	Reverse signal	Input	ON	Selector lever is in R position	Battery voltage
					Selector lever is in other than R position	0 V
70 (BG)	Ground	Vehicle speed signal (8-pulse)	Input	ON	When vehicle speed is approx. 40 km/h (25 MPH)	**NOTE:** The maximum voltage varies depending on the specification (destination unit).  JSNIA0012GB
71 (Shield)	—	Shield	—	—	—	—
72 (R)	Ground	Composite image synchronizing signal	Output	ON	When DVD image is displayed	 SKIB2251J

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
75 (B)	59 (Shield)	Microphone signal	Input	ON	When speaking into microphone	 SKIB3609E
76 (Shield)	—	Communication signal shield	—	—	—	—
77 (B)	Ground	Communication signal (DISP→CONT)	Input	ON	When adjusting display brightness	 PKIB5039J
78 (L)	—	CAN–H	Input/ Output	—	—	—
79 (SB)	—	AV communication signal (H)	—	—	—	—
80 (SB)	—	AV communication signal (H) terminate	—	—	—	—
91 (W)	Ground	Auxiliary image signal	Input	ON	Video output when front AUX mode selected	 SKIB2251J
92 (B)	Ground	Auxiliary image signal ground	—	ON	—	0 V
94 (Shield)	—	Auxiliary image signal shield	—	—	—	—
97 (Y)	Ground	Disk eject signal	Input	ON	Pressing the eject switch	0 V
					Except for above	5.0 V
98 (V)	Ground	Switch ground	—	ON	—	0 V
105 (W)	Ground	Composite image signal ground	—	ON	—	0 V
106 (Shield)	—	Composite image signal shield	—	—	—	—
107 (B)	Ground	Composite image signal	Output	ON	When DVD, USB or front AUX image is displayed on headrest display unit LH or RH	 SKIB2251J

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
137 (R)	—	V BUS signal (USB connector)	Input	—	—	—
138 (B)	—	USB ground (USB connector)	—	—	—	—
139 (G)	—	USB D+ signal (USB connector)	Input	—	—	—
140 (W)	—	USB D− signal (USB connector)	Input	—	—	—
141 (Shield)	—	USB shield (USB connector)	—	—	—	—
145 (B)	—	USB D− signal (Telematics)	Input/ Output	—	—	—
146 (B)	—	USB VBUS signal (Telematics)	Input/ Output	—	—	—
147 (B)	—	Manufacturer specific signal (Telematics)	Input	—	—	—
151 (L)	—	VOICE ground (Telematics)	—	—	—	—
152 (W)	—	U-VOICE signal (Telematics)	Input/ Output	—	—	—
153 (L/W)	—	USB D+ signal (Telematics)	Input/ Output	—	—	—
154 (Shield)	—	USB ground (Telematics)	—	—	—	—
160 (B)	—	D-VOICE signal (Telematics)	Input/ Output	—	—	—
161 (Shield)	—	USB shield (Telematics)	—	—	—	—
164 (W)	Ground	RGB digital image signal (−)	Output	ON	Connector disconnected	1.3 V
165 (R)	Ground	RGB digital image signal (+)	Output	ON	Connector disconnected	1.3 V
166 (Shield)	—	Shield	—	—	—	—
169[3] (B)	Ground	Satellite radio antenna signal	Input	ON	Connector disconnected	5.0 V
170[3] (Shield)	—	Shield	—	—	—	—
171 (B)	—	Antenna amp. ON signal	Output	ON	—	Battery voltage
172 (B)	—	AM-FM main	Input	—	—	—
173 (Shield)	—	Shield	—	—	—	—
174 (B)	—	FM sub	Input	—	—	—
175 (Shield)	—	Shield	—	—	—	—

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
188 (B)	Ground	GPS antenna signal	Input	ON	Connector disconnected	5.0 V
189 (Shield)	—	GPS antenna signal shield	—	—	—	—

1. With telematics
2. Without telematics
3. Except Mexico

Fail-Safe

INFOID:0000000012849605

When the ambient temperature becomes extremely low or extremely high, AV control unit displays a message and limits the function of the AV control unit.

FAIL-SAFE CONDITIONS

When the ambient temperature is –20°C (–4°F) or lower, or when it is 70°C (158°F) or higher.

Display

The following messages are displayed during fail-safe:

Fail-safe mode	Display
When HDD temperature is low	HDD system is experiencing problems due to extreme low temperature. Normal operation will resume when temperature rises.
When HDD temperature is high	HDD system is experiencing problems due to extreme high temperature. Normal operation will resume when temperature drops.

DESCRIPTION OF CONTROLS

Function		Fail-safe mode activated
Air conditioner	Operation	Multifunction switch can be operated.
	Display	• LEDs of multifunction switch illuminate. • Temperature, mode and blower speed are displayed in a simplified mode.
Audio	Operation	Only ON/OFF and volume control operations of preset switch are available.
	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	Inoperative.
Navigation	Operation	Inoperative.
Self diagnosis		Displays in a simplified mode.
CONSULT diagnosis		Inoperative.

Ability Operation Mode

If HDD data can be read, “Fail-safe mode” is displayed and functions listed above can be operated.

DTC Index

INFOID:0000000012849606

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

CONSULT Display	Reference Page
U1000: CAN COMM CIRCUIT	AV-490, "AV CONTROL UNIT : DTC Logic"
U1010: CONTROL UNIT (CAN)	AV-491, "AV CONTROL UNIT : DTC Logic"

CONSULT Display	Reference Page
U1200: CONT UNIT	AV-492, "DTC Logic"
U1201: GYRO NO CONN	AV-493, "DTC Logic"
U1202: G-SENSOR NO CONN	AV-494, "DTC Logic"
U1204: GPS COMM	AV-495, "DTC Logic"
U1205: GPS ROM	AV-496, "DTC Logic"
U1206: GPS RAM	AV-497, "DTC Logic"
U1207: GPS RTC	AV-498, "DTC Logic"
U1216: CAN CONT	AV-499, "DTC Logic"
U1217: BLUETOOTH MODULE	AV-500, "DTC Logic"
U1218: HDD CONN	AV-501, "DTC Logic"
U1219: HDD READ	AV-502, "DTC Logic"
U121A: HDD WRITE	AV-503, "DTC Logic"
U121B: HDD COMM	AV-504, "DTC Logic"
U121C: HDD ACCESS	AV-505, "DTC Logic"
U121D: DSP CONN	AV-506, "DTC Logic"
U121E: DSP COMM	AV-507, "DTC Logic"
U1225: USB CONTROLLER	AV-508, "DTC Logic"
U1227: DVD COMM	AV-509, "DTC Logic"
U1228: SUB CPU CONN	AV-510, "DTC Logic"
U1229: iPod CERTIFICATION	AV-511, "DTC Logic"
U122A: CONFIG UNFINISH	AV-512, "DTC Logic"
U122E: Built-in AUDIO CONN	AV-513, "DTC Logic"
U1231: AMP TEMP	AV-514, "DTC Logic"
U1232: ST ANGLE SEN CALIB	AV-515, "DTC Logic"
U1243: FRONT DISP CONN	AV-516, "DTC Logic"
U1244: GPS ANTENNA CONN	AV-518, "DTC Logic"
U1258: XM ANTENNA CONN	AV-519, "DTC Logic"
U125A: 3RD DISP CONN	AV-520, "DTC Logic"
U1263: USB OVERCURRENT	AV-521, "DTC Logic"
U1264: ANTENNA AMP TERMINAL (OPEN or SHORT)	AV-522, "DTC Logic"
U1265: AMP ON TERMINAL (GND-SHORT or VB-SHORT)	AV-523, "DTC Logic"

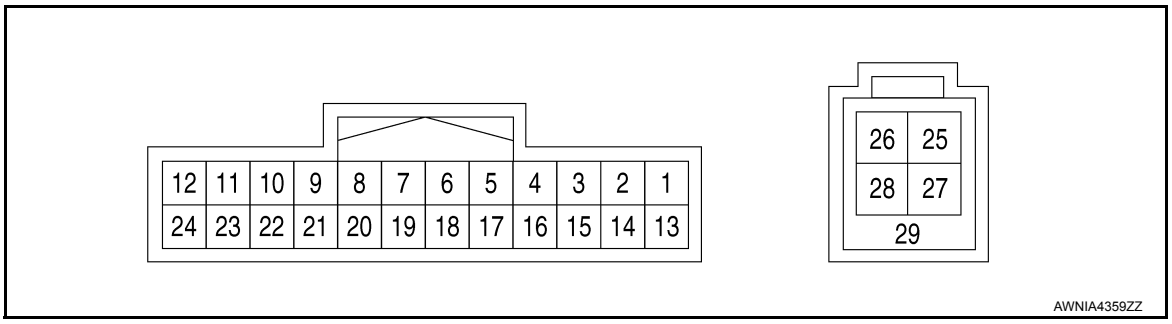
CONSULT Display	Reference Page
• U1300: AV COMM CIRCUIT • U1240: SWITCH CONN	AV-524, "Description"
• U1300: AV COMM CIRCUIT • U124E: AMP CONN	
• U1300: AV COMM CIRCUIT • U1246: VIDEO DIST CONN	
• U1300: AV COMM CIRCUIT • U125B: AROUND CAMERA CONN	
• U1300: AV COMM CIRCUIT • U125C: SONAR CONN	
• U1300: AV COMM CIRCUIT • U1240: SWITCH CONN • U125C: SONAR CONN • U125B: AROUND CAMERA CONN • U1246: VIDEO DIST CONN	
• U1300: AV COMM CIRCUIT • U1240: SWITCH CONN • U124E: AMP CONN • U125C: SONAR CONN • U125B: AROUND CAMERA CONN • U1246: VIDEO DIST CONN	
U1310: CONTROL UNIT (AV)	AV-534, "DTC Logic"
U1601: FL-DOOR WOOFER/TWEETER (OPEN, SHORT, GND-SHORT)	AV-535, "DTC Logic"
U1603: FL-DOOR WOOFER/TWEETER (VB-SHOR)	
U1609: FR-DOOR WOOFER/TWEETER (OPEN, SHORT, GND-SHORT)	
U160B: FR-DOOR WOOFER/TWEETER (VB-SHOR)	
U1627: F-INST L-TWEETER (OPEN, SHORT, GND-SHORT or VB-SHOR)	AV-536, "DTC Logic"
U162F: F-INST R-TWEETER (OPEN, SHORT, GND-SHORT or VB-SHOR)	
U162A: F-INST C-SQAWK (OPEN, SHORT, GND-SHORT or VB-SHOR)	AV-537, "DTC Logic"
U1684: 2L-DOOR SPEAKER/TWEETER (OPEN, SHORT, GND-SHORT)	AV-538, "DTC Logic"
U1687: 2L-DOOR SPEAKER/TWEETER (VB-SHOR)	
U162C: 2R-DOOR SPEAKER/TWEETER (OPEN, SHORT, GND-SHORT)	
U162F: 2R-DOOR SPEAKER/TWEETER (VB-SHOR)	
U175D: R-LUGGAGE L-WOOFER (OPEN, SHORT, GND-SHORT or VB-SHOR)	AV-539, "DTC Logic"
U176A: R-ROOF L-WK (OPEN, SHORT, GND-SHORT or VB-SHOR)	AV-540, "DTC Logic"
U1772: R-ROOF R-WK (OPEN, SHORT, GND-SHORT or VB-SHOR)	

DISPLAY UNIT

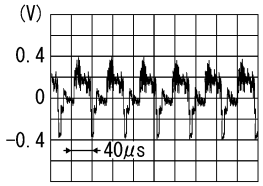
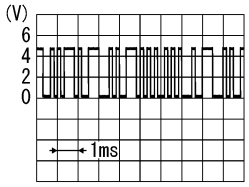
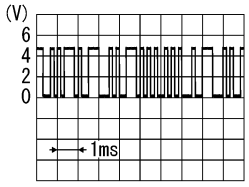
Reference Value

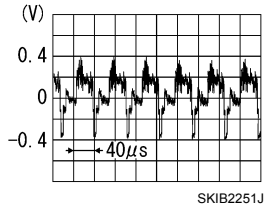
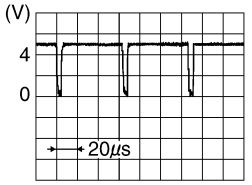
INFOID:0000000012849607

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
6 (Shield)	—	Composite image signal shield	—	—	—	—
7 (Shield)	—	Camera image signal shield	—	—	—	—
8 (B)	Ground	Camera image signal	Input	ON	When camera image is displayed	 SKIB2251J
9 (B)	Ground	Communication signal (DISP→CONT)	Output	ON	When adjusting display brightness	 PKIB5039J
10 (W)	Ground	Communication signal (CONT→DISP)	Input	ON	When adjusting display brightness	 PKIB5039J
11 (Y)	Ground	Battery power supply	Input	OFF	—	Battery voltage
12 (B)	Ground	Ground	—	ON	—	0 V

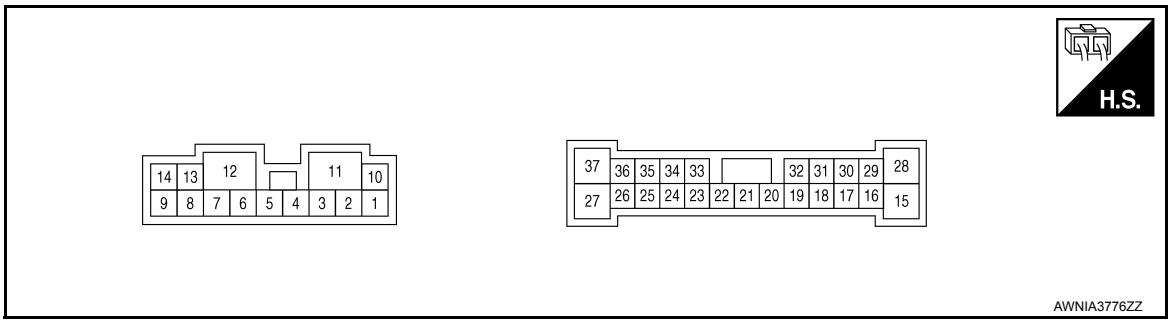
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
18 (B)	Ground	Composite image signal	Input	ON	When DVD image is displayed.	 SKIB2251J
19 (W)	Ground	Composite image signal ground	—	ON	—	0 V
20 (R)	Ground	Composite image synchronizing signal	Input	ON	—	 SKIB0825E
22 (Shield)	—	Communication signal shield	—	—	—	—
23 (P)	Ground	ACC power supply	Input	ACC	—	Battery voltage
27 (W)	—	RGB digital image signal (–)	Input	—	—	—
28 (R)	—	RGB digital image signal (+)	Input	—	—	—
29 (Shield)	—	Shield	—	—	—	—

BOSE AMP.

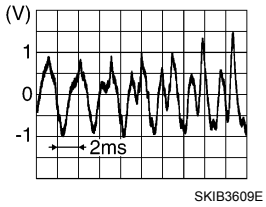
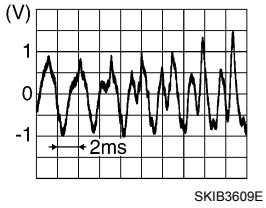
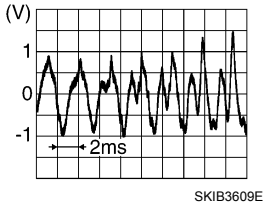
Reference Value

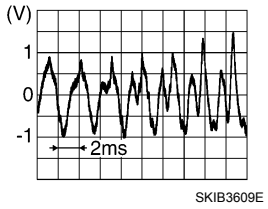
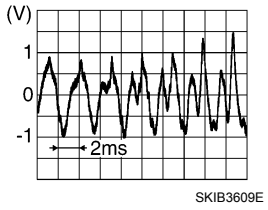
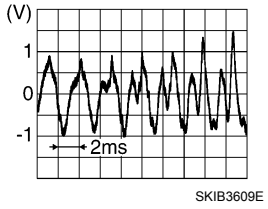
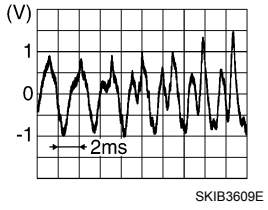
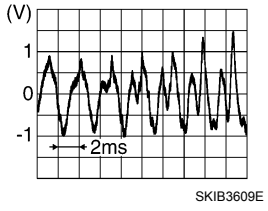
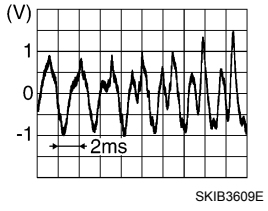
INFOID:0000000012849608

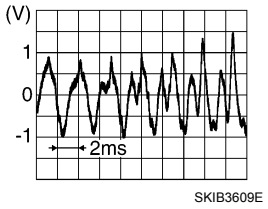
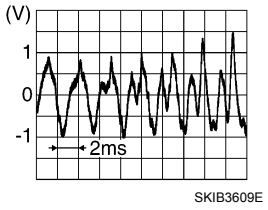
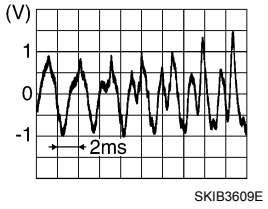
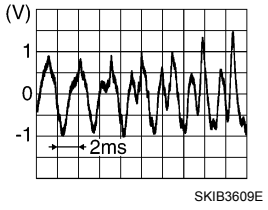
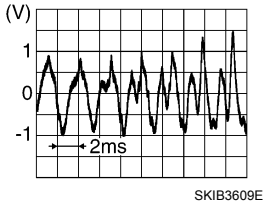
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (W)	2 (G)	Sound signal rear side speaker	Output	ON	Sound output	
4 (G)	3 (W)	Sound signal tweeter RH	Output	ON	Sound output	
5 (R)	6 (G)	Sound signal subwoofer 2	Output	ON	Sound output	
7 (B)	—	Ground	—	ON	—	0 V
10 (LG)	Ground	Battery power supply	Input	OFF	—	Battery voltage
11 (Y)	Ground	Battery power supply	Input	OFF	—	Battery voltage
12 (B)	—	Ground	—	ON	—	0 V

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
13 (W)	8 (B)	Sound signal subwoofer 1	Output	ON	Sound output	 SKIB3609E
14 (G)	9 (W)	Sound signal rear door speaker RH	Output	ON	Sound output	 SKIB3609E
16 (P)	17 (R)	Sound signal center speaker	Output	ON	Sound output	 SKIB3609E
18 (G)	19 (R)	Sound signal front door speaker and front tweeter LH	Output	ON	Sound output	 SKIB3609E
20 (W)	Ground	BOSE amp. ON signal	Input	ON	—	Battery voltage
24 (B)	23 (W)	Pre amp sound signal rear LH	Input	ON	Sound output	 SKIB3609E
26 (B)	25 (W)	Pre amp sound signal rear RH	Input	ON	Sound output	 SKIB3609E

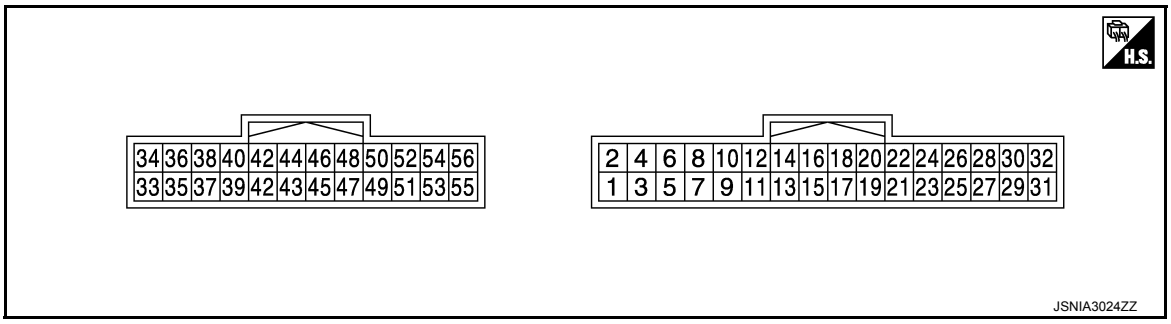
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
28 (P)	15 (R)	Sound signal rear door speaker LH	Output	ON	Sound output	 SKIB3609E
29 (R)	30 (G)	Sound signal tweeter LH	Output	ON	Sound output	 SKIB3609E
31 (W)	32 (P)	Sound signal front door speaker and front tweeter RH	Output	ON	Sound output	 SKIB3609E
33 (B)	34 (W)	Pre amp sound signal front RH	Input	ON	Sound output	 SKIB3609E
35 (B)	36 (W)	Pre amp sound signal front LH	Input	ON	Sound output	 SKIB3609E

VIDEO DISTRIBUTOR

Reference Value

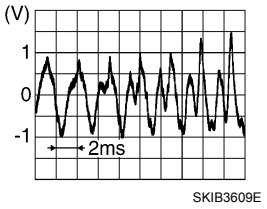
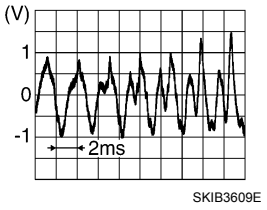
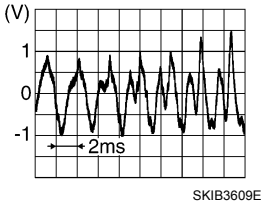
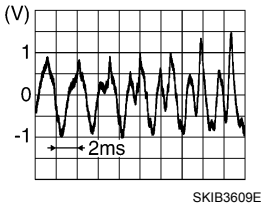
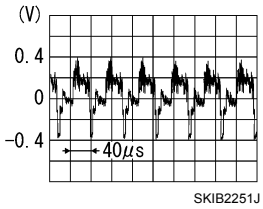
INFOID:0000000012849609

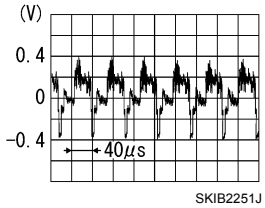
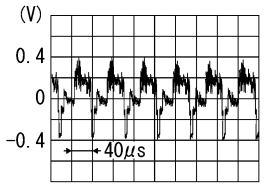
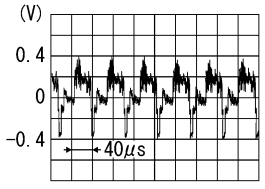
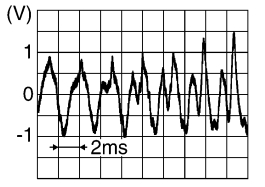
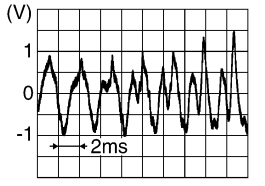
TERMINAL LAYOUT

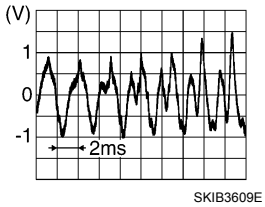
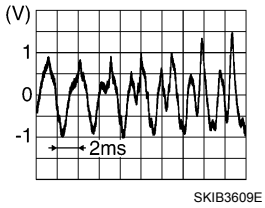


PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (B)	—	Ground	—	ON	—	0 V
2 (V)	Ground	Battery power supply	Input	OFF	—	Battery voltage
3 (B)	—	Ground	—	ON	—	0 V
4 (BG)	Ground	ACC power supply	Input	ACC	—	Battery voltage
5 (BR)	Ground	Headrest display unit RH control ground	—	ON	—	0 V
6 (Y)	Ground	Headrest display unit RH ACC signal	Output	OFF	—	3.3 V
				ACC	—	0 V
7 (SB)	Ground	Headrest display unit LH control ground	—	ON	—	0 V
8 (BR)	Ground	Headrest display unit RH ACC signal	Output	OFF	—	3.3 V
				ACC	—	0 V
9 (SB)	Ground	Headrest display unit RH image switch signal	Input	ON	When DVD, USB or front AUX image is displayed on headrest display unit RH.	0.5 V
					When rear AUX image is displayed on headrest display unit RH.	4.5 V
10 (L)	Ground	Headrest display unit LH image switch signal	Input	ON	When DVD, USB or front AUX image is displayed on headrest display unit LH.	0.5 V
					When rear AUX image is displayed on headrest display unit LH.	4.5 V

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
14 (R)	15 (G)	Headrest display unit RH headphone sound signal RH	Output	ON	Output headphone sound from headrest display unit RH to headphone.	 SKIB3609E
16 (B)	17 (W)	Headrest display unit RH headphone sound signal LH	Output	ON	Output headphone sound from headrest display unit RH to headphone.	 SKIB3609E
18 (V)	Ground	Headrest display unit RH AV ground	—	ON	—	0 V
19 (V)	Ground	Headrest display unit LH AV ground	—	ON	—	0 V
20 (B)	21 (G)	Headrest display unit LH headphone sound signal RH	Output	ON	Output headphone sound from headrest display unit LH to headphone.	 SKIB3609E
22 (W)	23 (R)	Headrest display unit LH headphone sound signal LH	Output	ON	Output headphone sound from headrest display unit LH to headphone.	 SKIB3609E
27 (W)	Ground	Headrest display unit RH composite image signal ground	—	ON	—	0 V
28 (B)	Ground	Headrest display unit RH composite image signal	Output	ON	When DVD, USB, front AUX or rear AUX image is displayed on headrest display unit RH.	 SKIB2251J
29 (Shield)	—	Headrest display unit RH composite image signal shield	—	—	—	—
30 (Shield)	—	Headrest display unit LH composite image signal shield	—	—	—	—

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
31 (P)	Ground	Headrest display unit LH composite image signal ground	—	ON	—	0 V
32 (L)	Ground	Headrest display unit LH composite image signal	Output	ON	When DVD, USB, front AUX or rear AUX image is displayed on headrest display unit LH.	 SKIB2251J
33 (W)	Ground	Composite image signal ground	—	ON	—	0 V
34 (B)	Ground	Composite image signal	Input	ON	When DVD, USB or front AUX image is displayed on headrest display unit LH or RH.	 SKIB2251J
35 (Shield)	—	Composite image signal shield	—	—	—	—
40 (B)	39 (W)	Auxiliary image signal	Input	ON	When rear AUX image is displayed on headrest display unit LH or RH.	 SKIB2251J
41 (Shield)	—	Auxiliary image signal shield	—	—	—	—
45 (W)	46 (R)	Headphone sound signal LH	Input	ON	When DVD, USB or front AUX mode is selected on headrest display unit LH or RH.	 SKIB3609E
47 (B)	48 (G)	Headphone sound signal RH	Input	ON	When DVD, USB or front AUX mode is selected on headrest display unit LH or RH.	 SKIB3609E
49 (Shield)	—	Headphone sound signal shield	—	—	—	—
53 (Shield)	—	Auxiliary sound signal shield	—	—	—	—

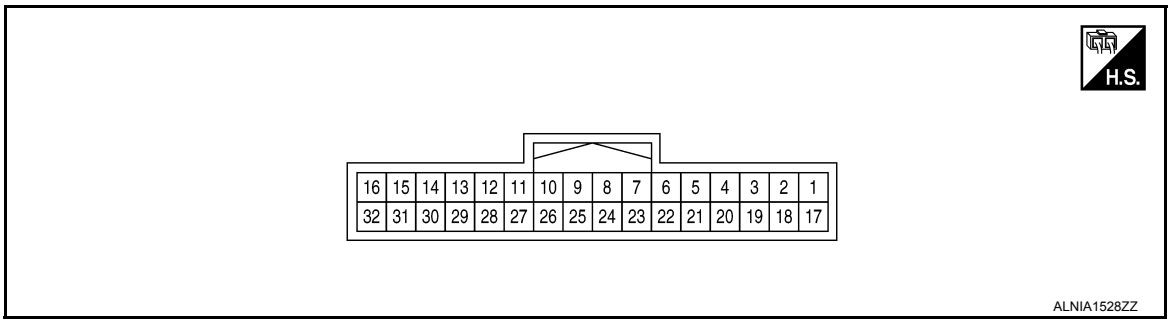
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
54 (B)	56 (W)	Auxiliary sound signal LH	Input	ON	When rear AUX mode is selected on headrest display unit LH or RH.	 SKIB3609E
55 (R)	56 (W)	Auxiliary sound signal RH	Input	ON	When rear AUX mode is selected on headrest display unit LH or RH.	 SKIB3609E

HEADREST DISPLAY UNIT

Reference Value

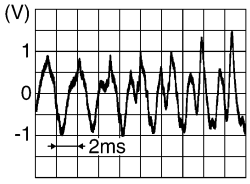
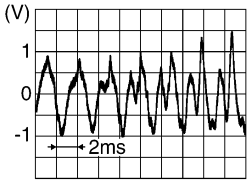
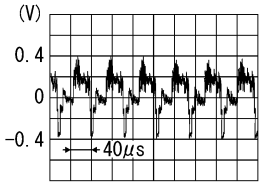
INFOID:0000000012849610

TERMINAL LAYOUT



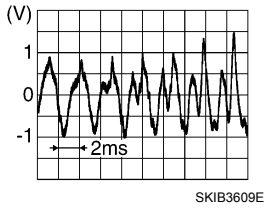
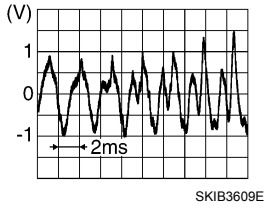
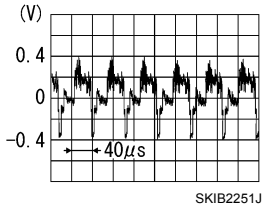
PHYSICAL VALUES

Driver Seat

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (W)	17 (B)	Headphone sound signal LH	Input	ON	Headphone sound output	 SKIB3609E
2 (G)	18 (R)	Headphone sound signal RH	Input	ON	Headphone sound output	 SKIB3609E
3 (LG)	—	Headphone sound signal shield	—		—	—
5 (Y)	Ground	Composite image signal	Input	ON	When DVD, USB or front AUX image is displayed on headrest display unit	 SKIB2251J
7 (W)	Ground	Image switch signal	Output	ON	When DVD, USB or front AUX image is displayed on headrest display unit	0.5 V
					When rear AUX image is displayed on headrest display unit	4.5 V
8 (G)	Ground	ACC signal	Input	OFF	—	3.3 V
				ACC	—	0 V

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
10 (LG)	—	AV communication signal 1 (L)	Input/ Output	—	—	—
11 (P)	—	AV communication signal 1 (H)	Input/ Output	—	—	—
12 (G)	Ground	Ground	—	ON	—	0 V
13 (BR)	Ground	Illumination	Input	OFF	—	Battery voltage
15 (W)	Ground	Battery power supply	Input	OFF	—	Battery voltage
16 (W)	Ground	Battery power supply	Input	OFF	—	Battery voltage
19 (V)	Ground	AV ground	—	ON	—	0 V
20 (P)	—	Composite image signal shield	—	—	—	—
21 (G)	Ground	Composite image signal ground	—	ON	—	0 V
23 (Y)	Ground	Control ground	—	ON	—	0 V
24 (SB)	—	CON CK B	Input/ Output	—	—	—
26 (R)	—	AV communication signal 2 (L)	Input/ Output	—	—	—
27 (LG)	—	AV communication signal 2 (H)	Input/ Output	—	—	—
29 (GR)	—	CON CK A	Input/ Output	—	—	—
31 (G)	Ground	Ground	—	ON	—	0 V
32 (G)	Ground	Ground	—	ON	—	0 V

Passenger Seat

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (W)	17 (B)	Headphone sound signal LH	Input	ON	Headphone sound output	 SKIB3609E
2 (G)	18 (R)	Headphone sound signal RH	Input	ON	Headphone sound output	 SKIB3609E
3 (LG)	—	Headphone sound signal shield	—		—	—
5 (Y)	Ground	Composite image signal	Input	ON	When DVD, USB or front AUX image is displayed on headrest display unit	 SKIB2251J
7 (W)	Ground	Image switch signal	Output	ON	When DVD, USB or front AUX image is displayed on headrest display unit	0.5 V
					When rear AUX image is displayed on headrest display unit	4.5 V
8 (G)	Ground	ACC signal	Input	OFF	—	3.3 V
				ACC	—	0 V
10 (LG)	—	AV communication signal 1 (L)	Input/ Output	—	—	—
11 (P)	—	AV communication signal 1 (H)	Input/ Output	—	—	—
13 (BR)	Ground	Illumination	Input	OFF	—	Battery voltage
15 (W)	Ground	Battery power supply	Input	OFF	—	Battery voltage
16 (W)	Ground	Battery power supply	Input	OFF	—	Battery voltage
19 (V)	Ground	AV ground	—	ON	—	0 V
20 (P)	—	Composite image signal shield	—	—	—	—
21 (G)	Ground	Composite image signal ground	—	ON	—	0 V
23 (Y)	Ground	Control ground	—	ON	—	0 V

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
24 (SB)	—	CON CK B	Input/ Output	—	—	—
26 (R)	—	AV communication signal 2 (L)	Input/ Output	—	—	—
27 (LG)	—	AV communication signal 2 (H)	Input/ Output	—	—	—
28 (G)	Ground	Ground	—	ON	—	0 V
29 (GR)	—	CON CK A	Input/ Output	—	—	—
31 (G)	Ground	Ground	—	ON	—	0 V
32 (G)	Ground	Ground	—	ON	—	0 V

AROUND VIEW MONITOR CONTROL UNIT

Reference Value

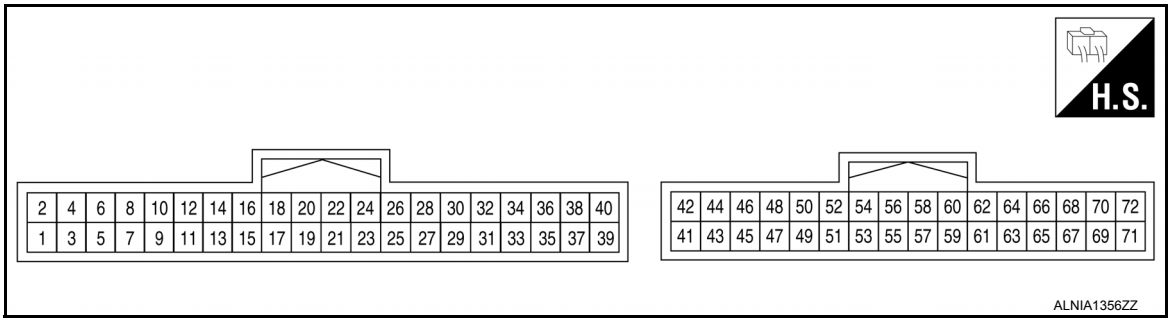
INFOID:0000000012849611

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ACC	Ignition switch in any position except ACC.	NG
	Ignition switch in ACC position.	OK
CAMERA OFF SIGNAL	CAMERA switch ON.	Off
	CAMERA switch OFF.	On
CAMERA SWITCH SIGNAL	CAMERA switch OFF.	Off
	CAMERA switch ON.	On
DR CAMERA COMM STATUS	Side camera LH inoperative.	NG
	Side camera LH operative.	OK
DR-SIDE CAMERA COMM LINE	Side camera LH inoperative.	NG
	Side camera LH operative.	OK
DR-SIDE CAMERA IMAGE SIG	Side camera LH inoperative.	NG
	Side camera LH operative.	OK
F-CAMERA COMM LINE	Front camera inoperative.	NG
	Front camera operative.	OK
F-CAMERA COMM STATUS	Front camera inoperative.	NG
	Front camera operative.	OK
F-CAMERA IMAGE SIG	Front camera inoperative.	NG
	Front camera operative.	OK
FOLDING MOTOR VOLT 1	Door mirror LH not in fold position.	Off
	Door mirror LH in fold position.	On
FOLDING MOTOR VOLT 2	Door mirror RH not in fold position.	Off
	Door mirror RH in fold position.	On
PA CAMERA COMM STATUS	Side camera RH inoperative.	NG
	Side camera RH operative.	OK
PA-SIDE CAMERA COMM LINE	Side camera RH inoperative.	NG
	Side camera RH operative.	OK
PA-SIDE CAMERA IMAGE SIG	Side camera RH inoperative.	NG
	Side camera RH operative.	OK
R-CAMERA COMM LINE	Rear view camera inoperative.	NG
	Rear view camera operative.	OK
R-CAMERA COMM STATUS	Rear view camera inoperative.	NG
	Rear view camera operative.	OK
REAR CAMERA IMAGE SIGNAL	Rear view camera inoperative.	NG
	Rear view camera operative.	OK
REVERSE SIGNAL	When selector lever is in any position other than R (reverse).	Off
	When selector lever in R (reverse).	On
ST ANGLE SENSOR SIGNAL	Around view monitor control unit is not receiving steering angle sensor signal.	Off
	Around view monitor control unit is receiving steering angle sensor signal.	On

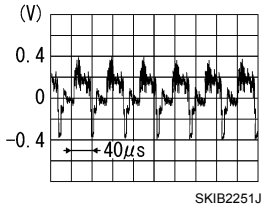
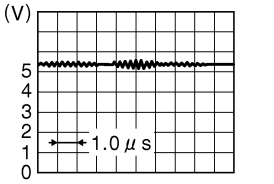
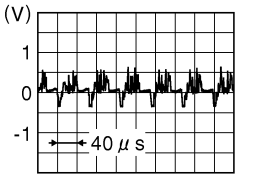
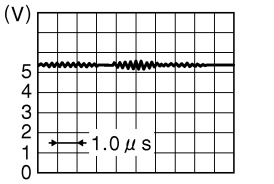
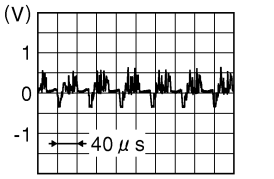
Monitor Item	Condition	Value/Status
ST ANGLE SENSOR TYPE	Steering angle sensor type.	Absolute
ST GEAR RATIO TYPE	Steering gear ratio type.	Type O
STEERING POSITION	Left hand drive vehicle.	LHD
	Right hand drive vehicle.	RHD
VEHICLE SPEED SIGNAL	While driving, equivalent to speedometer reading	mph, km/h

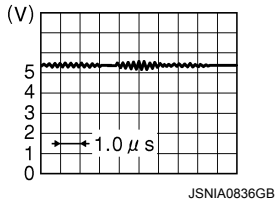
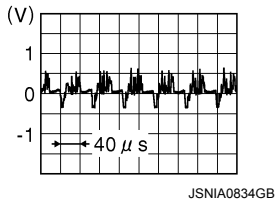
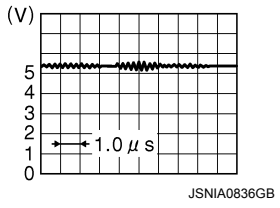
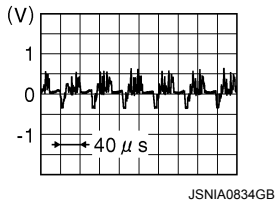
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (B)	Ground	Ground	—	ON	—	0 V
2 (Y)	Ground	Battery power supply	Input	OFF	—	Battery voltage
3 (LG)	Ground	Ignition signal	Input	ON	—	Battery voltage
4 (P)	Ground	ACC power supply	Input	ACC	—	Battery voltage
19 (B)	—	AV communication signal 1 (H)	Input/ Output	—	—	—
20 (W)	—	AV communication signal 1 (L)	Input/ Output	—	—	—
23 (Shield)	—	AV communication signal shield	—	—	—	—
25 (LG)	Ground	Reverse signal	Input	ON	R position	Battery voltage
					Other than R position	0 V
27 (B)	—	CAN (H)	—	—	—	—
28 (W)	—	CAN (L)	—	—	—	—
29 (Shield)	—	CAN shield	—	—	—	—
30 (W)	—	Mirror signal 2	—	—	—	—
32 (G)	—	Mirror signal 1	—	—	—	—

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
47 (B)	Ground	Camera image signal	Output	ON	At camera image display	 SKIB2251J
48 (Shield)	—	Camera image signal shield	—	—	—	—
49 (W)	Ground	Rear view camera communication signal	Input/ Output	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0836GB
50 (B)	Ground	Rear view camera power supply	Output	ON	“CAMERA” switch is ON or shift position is “R”.	6.0 V
52 (R)	Ground	Rear view camera ground	—	ON	—	0 V
53 (G)	54 (Shield)	Rear view camera image signal	Input	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0834GB
55 (B)	Ground	Side camera LH communication signal	Input/ Output	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0836GB
56 (W)	Ground	Side camera LH power supply	Output	ON	“CAMERA” switch is ON or shift position is “R”.	6.0 V
58 (G)	Ground	Side camera LH ground	—	ON	—	0 V
59 (R)	60 (Shield)	Side camera LH image signal	Input	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0834GB

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
61 (W)	Ground	Side camera RH communication signal	Input/ Output	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0836GB
62 (B)	Ground	Side camera RH power supply	Output	ON	“CAMERA” switch is ON or shift position is “R”.	6.0 V
64 (R)	Ground	Side camera RH ground	—	ON	—	0 V
65 (G)	66 (Shield)	Side camera RH image signal	Input	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0834GB
67 (B)	Ground	Front camera communication signal	Input/ Output	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0836GB
68 (W)	Ground	Front camera power supply	Output	ON	“CAMERA” switch is ON or shift position is “R”.	6.0 V
70 (G)	Ground	Front camera ground	—	ON	—	0 V
71 (R)	72 (Shield)	Front camera image signal	Input	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0834GB

DTC Index

INFOID:0000000012849612

CONSULT Display	Reference Page
U1302: CAMERA SUPPLY POWER SUPPLY VOLTAGE ABNORMALITY	AV-526, "DTC Logic"
U1303: LED SUPPLY POWER SUPPLY VOLTAGE ABNORMALITY	AV-530, "DTC Logic"
U1304: NON-COMPLETION OF THE CALIBRATION	AV-532, "DTC Logic"
U1305: NON-COMPLETION OF THE WRITE CONFIGURATION	AV-533, "DTC Logic"

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

Reference Value

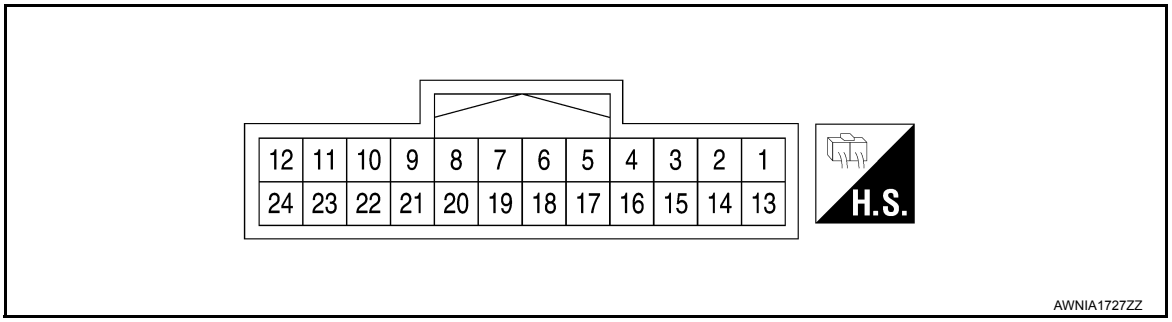
INFOID:0000000012849613

VALUES ON THE DIAGNOSIS TOOL

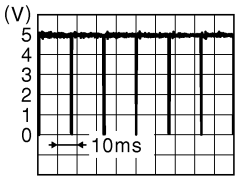
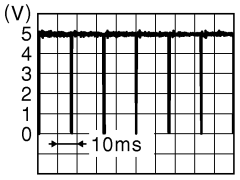
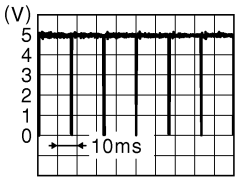
Monitor Item	Condition	Value/Status
CEN[FL]/CEN[F]	Key ON, selector lever in R (reverse) position.	cm/in
CEN[FL]/CEN[F]->COR[FL]		
CEN[FL]->CEN[FR]		
CEN[FR]		
CEN[FR]/CEN[F]->COR[FR]		
CEN[FR]->CEN[FL]		
CEN[RL]/CEN[R]		
CEN[RL]/CEN[R]->COR[RL]		
CEN[RL]->CEN[RR]		
CEN[RR]		
CEN[RR]/CEN[R]->COR[RR]		
CEN[RR]->CEN[RL]		
COR[FL]		
COR[FR]		
COR[RL]		
COR[RR]		
COR[RL]->CEN[RL]/CEN[R]		
COR[RR]->CEN[RR]/CEN[R]		
DETECTION MODE	Key ON.	Mode 1
		Mode 2
LED	When LED is OFF.	Off
	When LED is ON.	On
P N RANGE	When selector lever is in any position other than P (park) or N (neutral).	Off
	When selector lever in P (park) or N (neutral) position.	On
REVERSE RANGE	When transmission range switch is in any position other than R (reverse).	Off
	When transmission range switch is in R (reverse) position.	On
RVRB TIME CEN[FL]	Key ON, selector lever in R (reverse) position.	ms/sec
RVRB TIME CEN[FR]		
RVRB TIME CEN[RL]		
RVRB TIME CEN[RR]		
RVRB TIME COR[FL]		
RVRB TIME COR[FR]		
RVRB TIME COR[RL]		
RVRB TIME COR[RR]		
SENSOR VOLTAGE		5.0 V
SHRT DST FRM FR SENS		cm/in
SHRT DST FRM RR SENS		
SONAR C/U POWER SUPPLY	Key ON.	Battery voltage

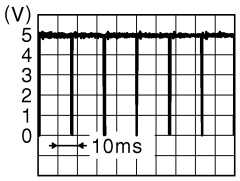
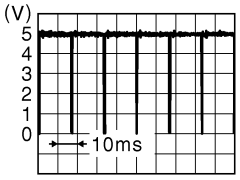
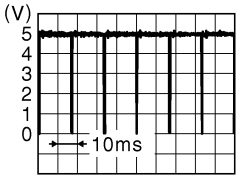
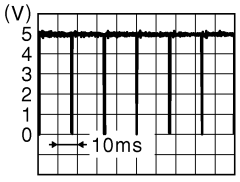
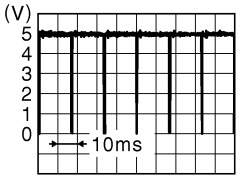
Monitor Item	Condition	Value/Status
SONAR PERMANENT OFF	CAMERA switch ON.	No
	CAMERA switch OFF.	Yes
SONAR TEMPORARY OFF	Key ON, selector lever in R (reverse) position.	No
	When selector lever is in any position other than R (reverse).	Yes
SW OPRT AFTR IGN ON	CAMERA switch OFF after Key ON.	No
	CAMERA switch ON after Key ON.	Yes
TRAILER CONNECT	No trailer connected to trailer hitch.	N CON
	Trailer connected to trailer hitch.	CON
VEHICLE SPEED	While driving, equivalent to speedometer reading	mph, km/h

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (B)	13 (B)	Inner sensor signal front RH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
2 (B)	13 (B)	Inner sensor signal front LH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
3 (R)	13 (B)	Outer sensor signal front LH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
4 (R)	13 (B)	Outer sensor signal front RH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
5 (B)	—	V-CAN (H)	Input/ Output	—	—	—
6 (W)	—	V-CAN (L)	Input/ Output	—	—	—
9 (B)	14 (B)	Inner sensor signal rear RH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
10 (B)	14 (B)	Outer sensor signal rear RH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
12 (LG)	Ground	Ignition signal	Input	ON	—	Battery voltage
15 (GR)	Ground	Ground	—	ON	—	0 V
19 (BR)	20 (LG)	Buzzer	Input	ON	CAMERA mode or Selector lever R (reverse) position	Battery voltage
21 (B)	14 (B)	Inner sensor signal rear LH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
22 (W)	14 (B)	Outer sensor signal rear LH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB

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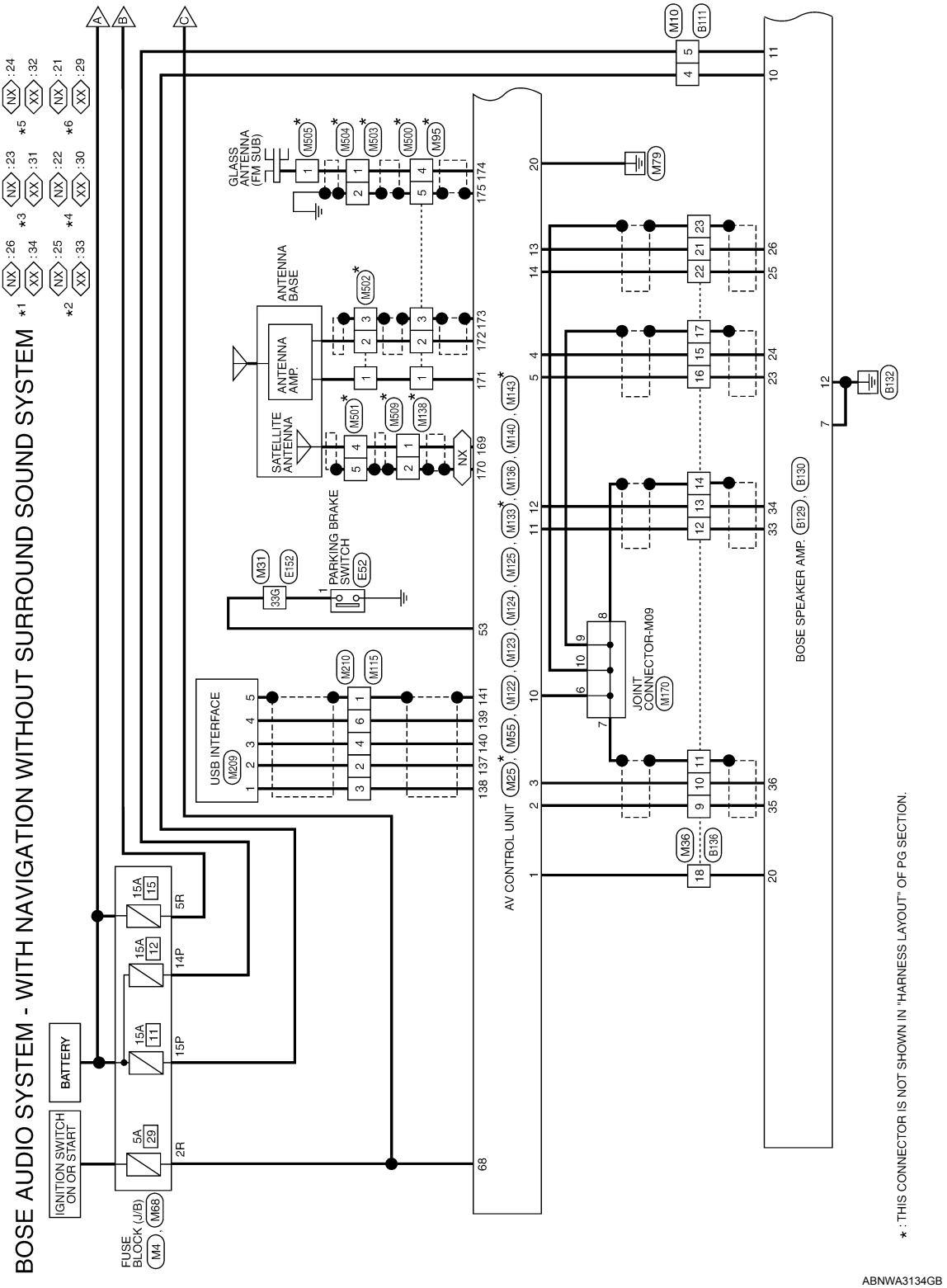
B272C: FRONT RIGHT SIDE EXTERNAL SENSOR	AV-551, "DTC Logic"

WIRING DIAGRAM

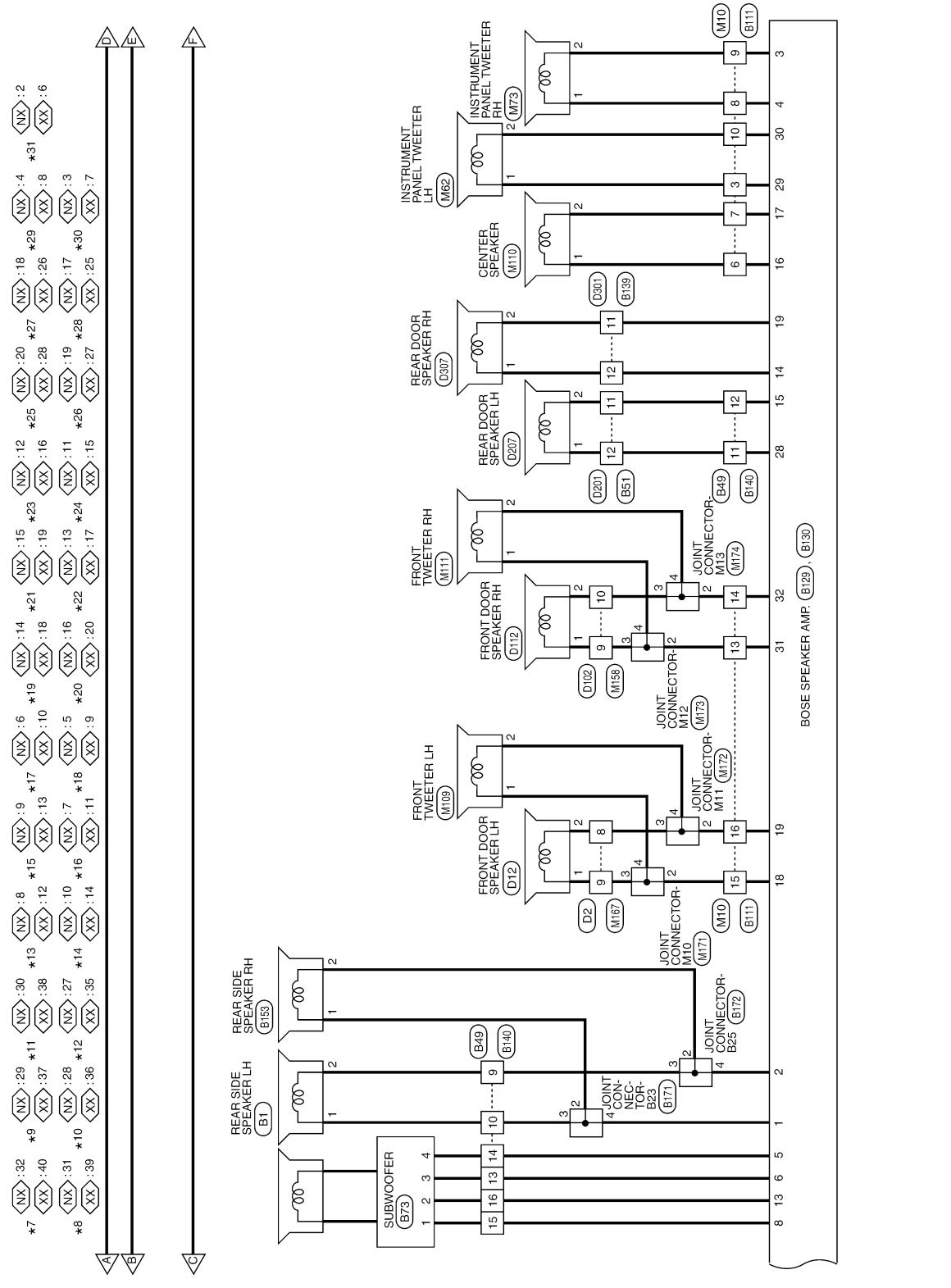
BOSE AUDIO W/NAVI W/O SURROUND

Wiring Diagram

INFOID:0000000012849615



ABNWA3134GB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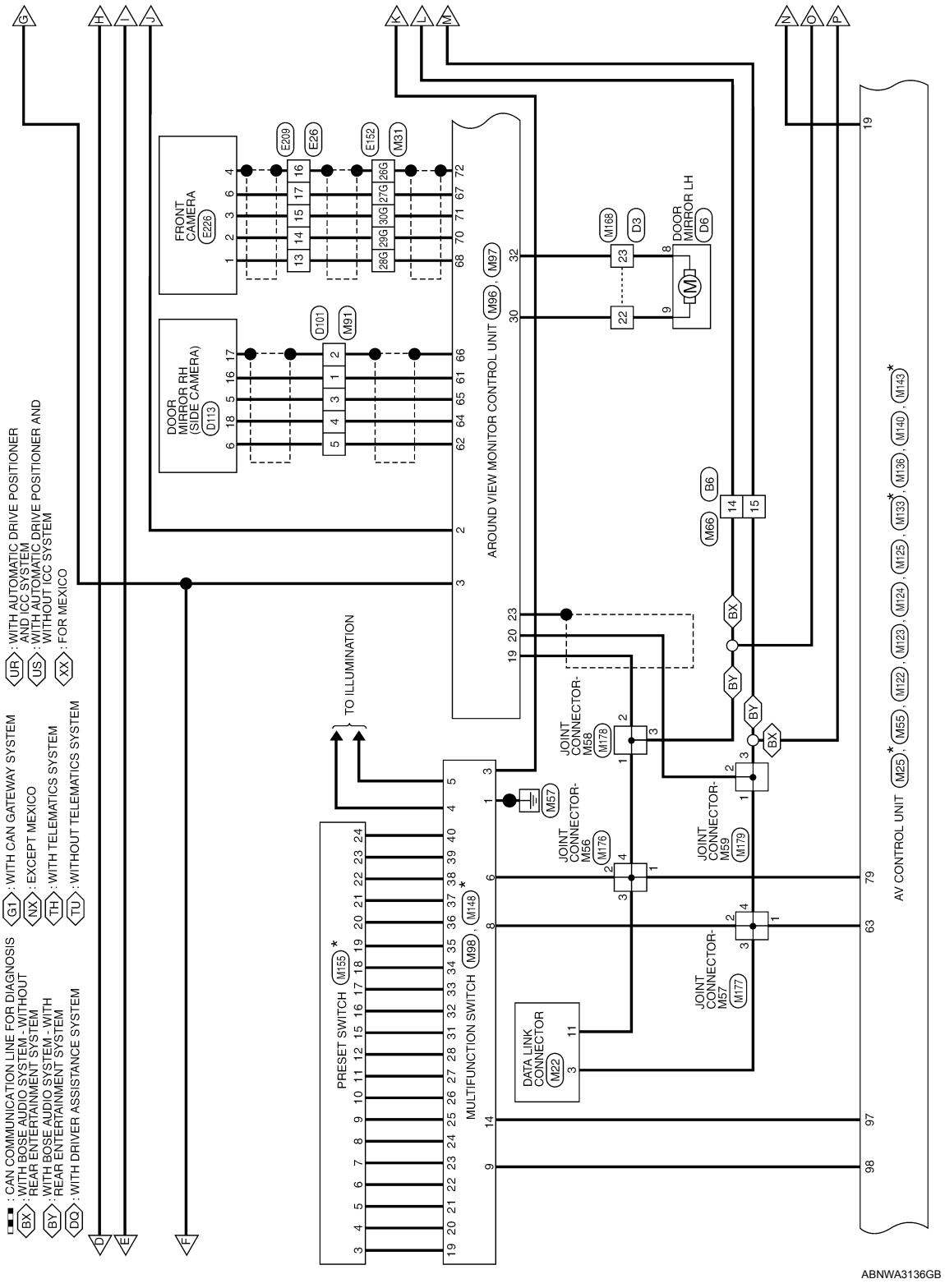
: CAN COMMUNICATION LINE FOR DIAGNOSIS
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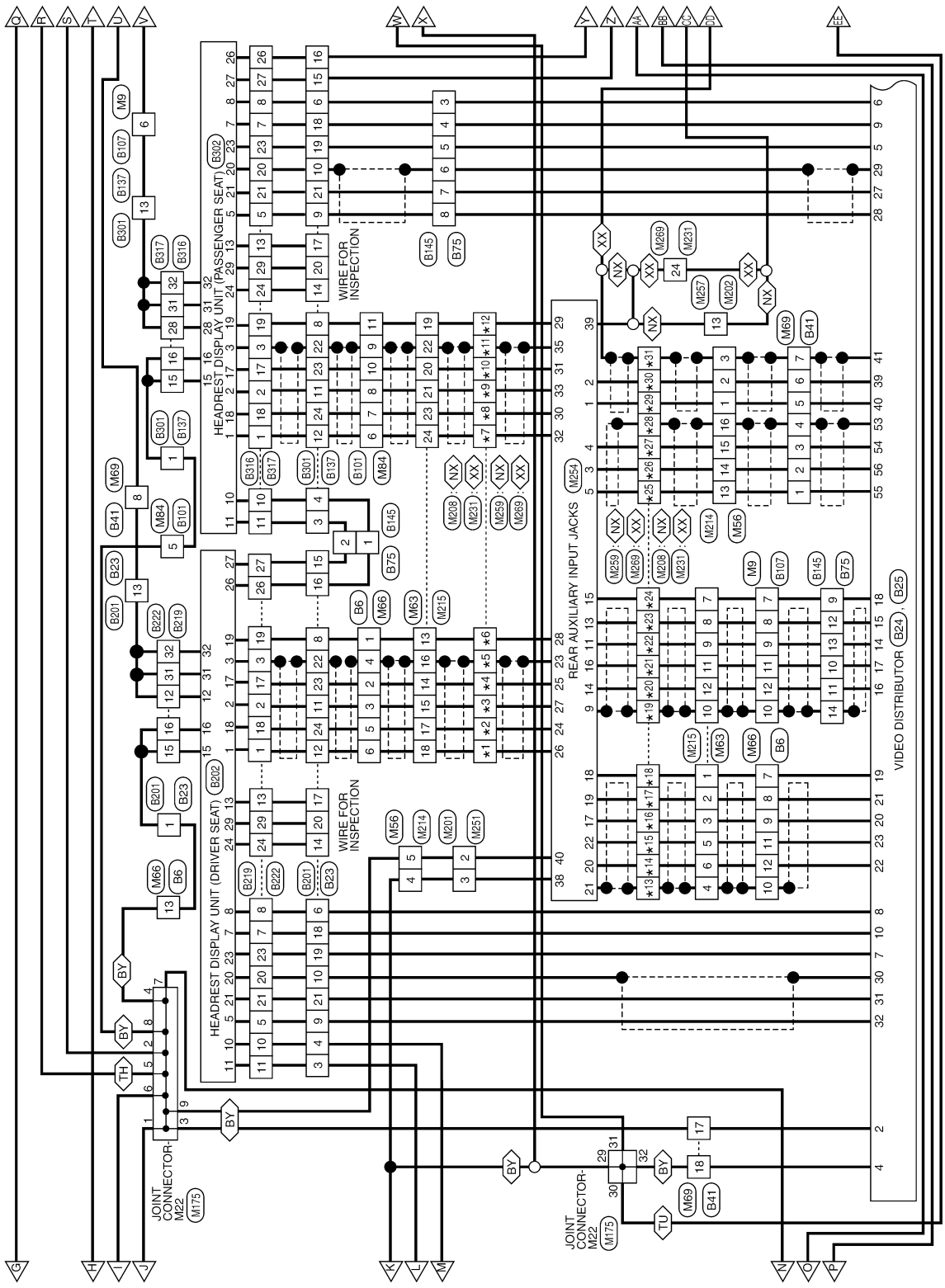
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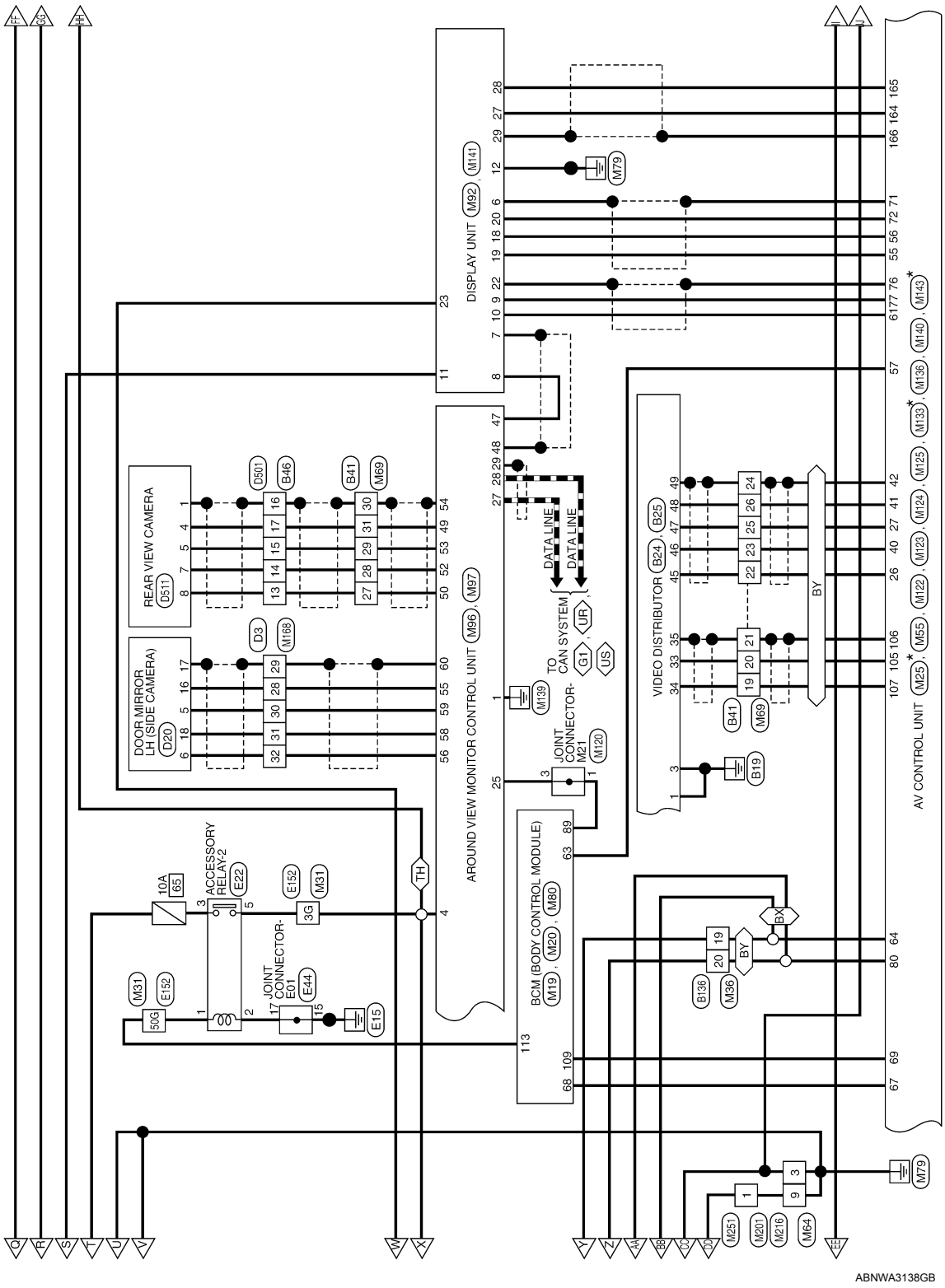
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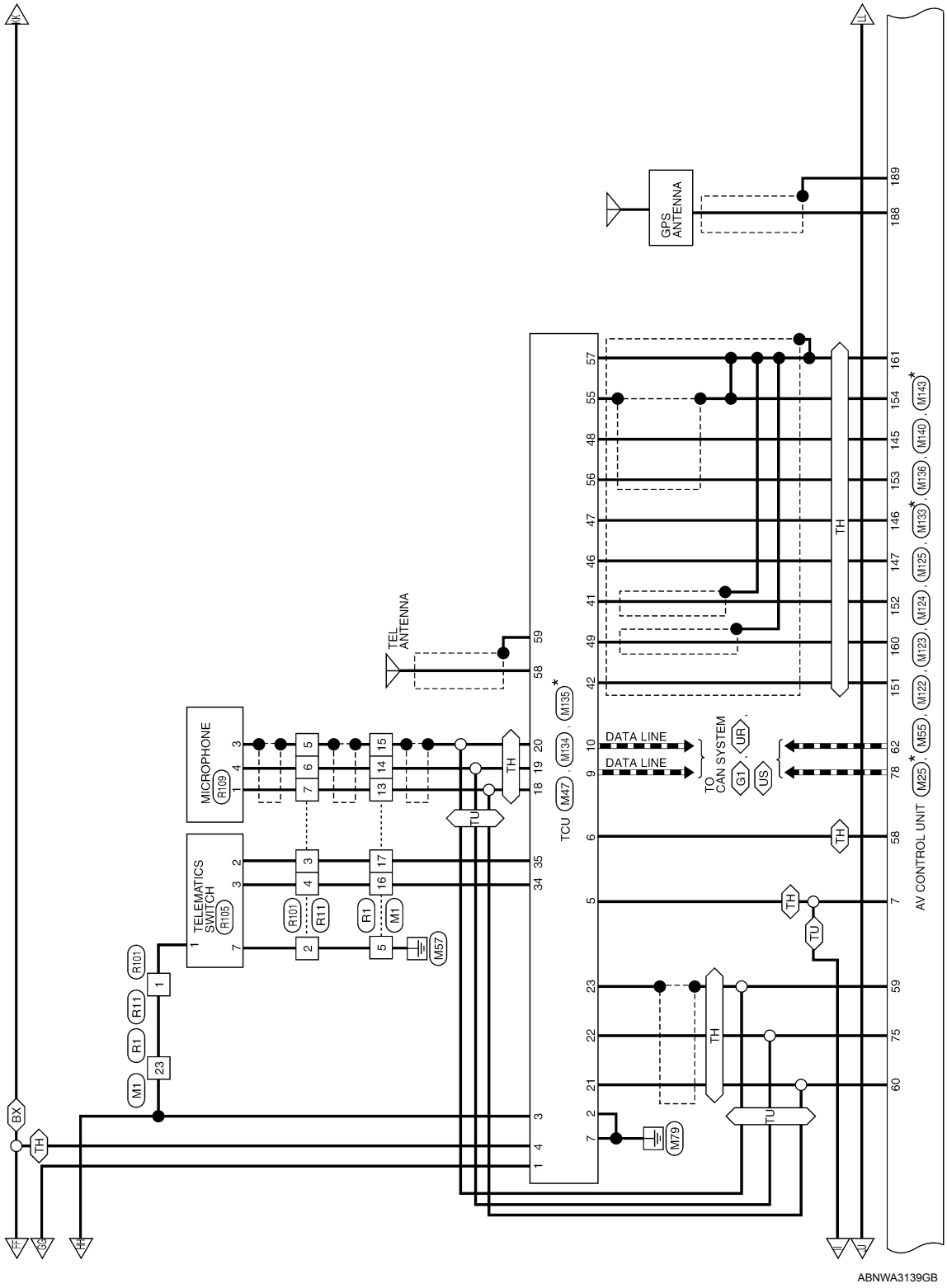
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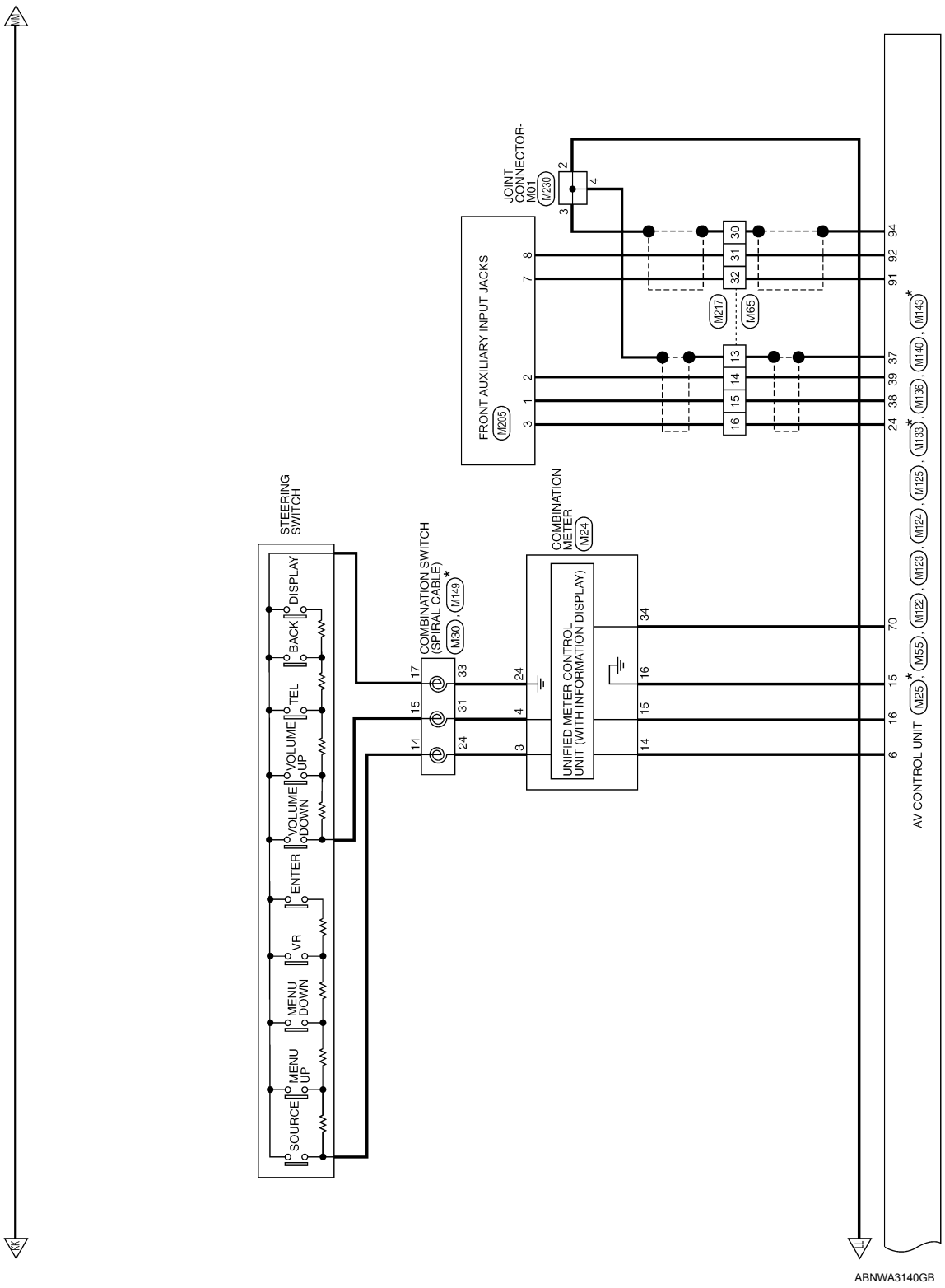
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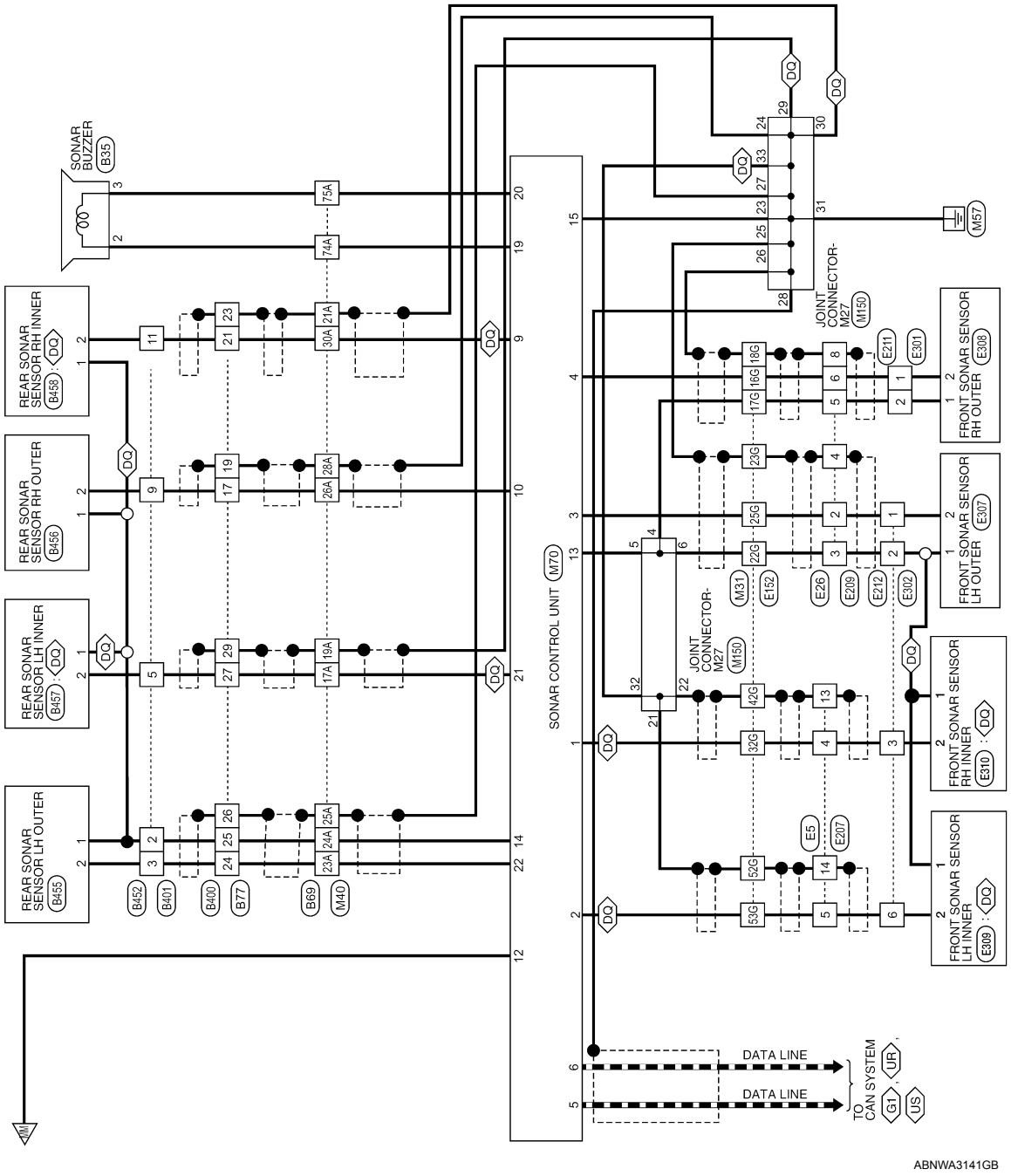
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DATA LINE
TO CAN SYSTEM
ABNWA3141GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B1
Connector Name	REAR SIDE SPEAKER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	RR SUR SP LH+
2	G	RR SUR SP RH-

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	Y	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
3	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
4	R	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
4	SHIELD	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
5	P	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	W	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	V	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	V	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	W	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	G	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
9	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
10	SHIELD	TO MAIN HARNESS
11	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
11	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
12	W	TO MAIN HARNESS
13	SB	TO MAIN HARNESS
14	SB	TO MAIN HARNESS
15	LG	TO MAIN HARNESS
16	LG	TO MAIN HARNESS
17	SB	TO MAIN HARNESS
18	P	TO MAIN HARNESS
19	BG	TO MAIN HARNESS
20	W	TO MAIN HARNESS
21	R	TO MAIN HARNESS
22	B	TO MAIN HARNESS
23	SHIELD	TO MAIN HARNESS
24	–	TO MAIN HARNESS

Connector No.	B23
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	TO FRONT SEAT LH HARNESS
2	–	TO FRONT SEAT LH HARNESS
3	SB	TO FRONT SEAT LH HARNESS
4	LG	TO FRONT SEAT LH HARNESS
5	–	TO FRONT SEAT LH HARNESS
6	BR	TO FRONT SEAT LH HARNESS
7	–	TO FRONT SEAT LH HARNESS
8	P	TO FRONT SEAT LH HARNESS
9	L	TO FRONT SEAT LH HARNESS
10	SHIELD	TO FRONT SEAT LH HARNESS
11	R	TO FRONT SEAT LH HARNESS
12	B	TO FRONT SEAT LH HARNESS
13	B	TO FRONT SEAT LH HARNESS
14	–	TO FRONT SEAT LH HARNESS
15	SB	TO FRONT SEAT LH HARNESS
16	LG	TO FRONT SEAT LH HARNESS
17	–	TO FRONT SEAT LH HARNESS
18	L	TO FRONT SEAT LH HARNESS
19	SB	TO FRONT SEAT LH HARNESS
20	–	TO FRONT SEAT LH HARNESS
21	P	TO FRONT SEAT LH HARNESS
22	SHIELD	TO FRONT SEAT LH HARNESS
23	G	TO FRONT SEAT LH HARNESS
24	W	TO FRONT SEAT LH HARNESS

Connector No.	B24
Connector Name	VIDEO DISTRIBUTOR
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	V	BAT
3	B	GND
4	BG	ACC
5	BR	CONT. GND1
6	Y	ACC DET. OUT1
7	SB	CONT. GND
8	BR	ACC DET. OUT2
9	SB	AUX RQ. IN1
10	L	AUX REQ. IN2
11	–	–
12	–	–
13	–	–
14	R	RR1 HP RH+ OUT
15	G	RR1 HP RH- OUT
16	B	RR1 HP LH+ OUT
17	W	RR1 HP LH- OUT
18	V	AV GND 1(A GND)
19	V	AV GND 2(A GND)
20	B	REAR2 HP RH+
21	G	REAR2 HP RH-
22	W	REAR2 HP LH+
23	R	REAR2 HP LH-
24	–	–
25	–	–
26	–	–
27	W	RR1 COMP- OUT
28	B	RR1 COMP+ OUT
29	SHIELD	RR1 COMP SHIELD
30	SHIELD	REAR2 COMP SHIELD
31	P	REAR2 COMP-
32	L	REAR2 COMP+

Connector No.	B25
Connector Name	VIDEO DISTRIBUTOR
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
33	W	IT M COMP- IN
34	B	IT M COMP+ IN
35	SHIELD	COMP SHIELD
36	–	–
37	–	–
38	–	–
39	W	AUX VIDEO-IN
40	B	AUX VIDEO+IN
41	SHIELD	AUX SHIELD
42	–	–
43	–	–
44	–	–
45	W	AUDIO LH+ IN
46	R	AUDIO LH- IN
47	B	AUDIO RH+ IN
48	G	AUDIO RH- IN
49	SHIELD	AUDIO SHIELD
50	–	–
51	–	–
52	–	–
53	SHIELD	AUDIO SHIELD
54	B	AUDIO LH+ IN
55	R	AUDIO RH+ IN
56	W	AUDIO LH/RH- IN

ABNIA9085GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B35
Connector Name	SONAR BUZZER
Connector Type	TH04FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	P	SOUNDER+
3	V	SOUNDER-
4	–	–

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS - (WITHOUT NAVI)
1	R	TO MAIN HARNESS - (WITH NAVI)
2	R	TO MAIN HARNESS - (WITHOUT NAVI)
2	W	TO MAIN HARNESS - (WITH NAVI)
3	B	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	R	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	BG	TO MAIN HARNESS - (WITHOUT NAVI)
17	V	TO MAIN HARNESS - (WITH NAVI)
18	SB	TO MAIN HARNESS - (WITHOUT NAVI)
18	W	TO MAIN HARNESS - (WITH NAVI)
19	W	TO MAIN HARNESS - (WITHOUT NAVI)
19	B	TO MAIN HARNESS - (WITH NAVI)
20	B	TO MAIN HARNESS - (WITHOUT NAVI)
20	W	TO MAIN HARNESS - (WITH NAVI)
21	R	TO MAIN HARNESS - (WITHOUT NAVI)
21	SHIELD	TO MAIN HARNESS - (WITH NAVI)
22	G	TO MAIN HARNESS - (WITHOUT NAVI)
22	W	TO MAIN HARNESS - (WITH NAVI)
23	SHIELD	TO MAIN HARNESS - (WITHOUT NAVI)
23	R	TO MAIN HARNESS - (WITH NAVI)
24	SHIELD	TO MAIN HARNESS
25	B	TO MAIN HARNESS
26	G	TO MAIN HARNESS
27	W	TO MAIN HARNESS - (WITH NAVI)
27	R	TO MAIN HARNESS - (WITHOUT NAVI)
28	R	TO MAIN HARNESS - (WITH NAVI)
28	B	TO MAIN HARNESS - (WITHOUT NAVI)
29	G	TO MAIN HARNESS - (WITH NAVI)
29	W	TO MAIN HARNESS - (WITHOUT NAVI)
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	TO BACK DOOR LH HARNESS
2	Y	TO BACK DOOR LH HARNESS
3	BR	TO BACK DOOR LH HARNESS
4	SB	TO BACK DOOR LH HARNESS
5	LG	TO BACK DOOR LH HARNESS
6	L	TO BACK DOOR LH HARNESS
7	LG	TO BACK DOOR LH HARNESS
8	BR	TO BACK DOOR LH HARNESS
9	W	TO BACK DOOR LH HARNESS
10	R	TO BACK DOOR LH HARNESS
11	G	TO BACK DOOR LH HARNESS
12	B	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
12	W	TO BACK DOOR LH HARNESS - (WITH NAVI)
13	R	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
14	R	TO BACK DOOR LH HARNESS - (WITH NAVI)
14	B	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
15	G	TO BACK DOOR LH HARNESS - (WITH NAVI)
15	W	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
16	SHIELD	TO BACK DOOR LH HARNESS
17	B	TO BACK DOOR LH HARNESS
18	–	TO BACK DOOR LH HARNESS
19	W	TO BACK DOOR LH HARNESS
20	W	TO BACK DOOR LH HARNESS
21	G	TO BACK DOOR LH HARNESS
22	BR	TO BACK DOOR LH HARNESS
23	GR	TO BACK DOOR LH HARNESS
24	G	TO BACK DOOR LH HARNESS

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	L	TO BODY HARNESS RH
6	BR	TO BODY HARNESS RH
7	Y	TO BODY HARNESS RH
8	–	TO BODY HARNESS RH
9	G	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	P	TO BODY HARNESS RH
12	R	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	R	TO BODY HARNESS RH
15	B	TO BODY HARNESS RH
16	W	TO BODY HARNESS RH

Connector No.	B51
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	TO REAR DOOR LH HARNESS
2	BR	TO REAR DOOR LH HARNESS
3	B	TO REAR DOOR LH HARNESS
4	R	TO REAR DOOR LH HARNESS
5	–	TO REAR DOOR LH HARNESS
6	–	TO REAR DOOR LH HARNESS
7	–	TO REAR DOOR LH HARNESS
8	Y	TO REAR DOOR LH HARNESS
9	–	TO REAR DOOR LH HARNESS
10	–	TO REAR DOOR LH HARNESS
11	R	TO REAR DOOR LH HARNESS
12	P	TO REAR DOOR LH HARNESS

ABNIA9086GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	–	TO MAIN HARNESS
2A	Y	TO MAIN HARNESS
3A	Y	TO MAIN HARNESS
4A	G	TO MAIN HARNESS
5A	–	TO MAIN HARNESS
6A	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	R	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	BR	TO MAIN HARNESS
8A	G	TO MAIN HARNESS
9A	P	TO MAIN HARNESS
10A	–	TO MAIN HARNESS
11A	W	TO MAIN HARNESS
12A	G	TO MAIN HARNESS
13A	–	TO MAIN HARNESS
14A	R	TO MAIN HARNESS
15A	G	TO MAIN HARNESS
16A	W	TO MAIN HARNESS
17A	B	TO MAIN HARNESS
18A	B	TO MAIN HARNESS
19A	SHIELD	TO MAIN HARNESS
20A	W	TO MAIN HARNESS
21A	SHIELD	TO MAIN HARNESS
22A	–	TO MAIN HARNESS
23A	W	TO MAIN HARNESS
24A	B	TO MAIN HARNESS

25A	SHIELD	TO MAIN HARNESS
26A	B	TO MAIN HARNESS
27A	B	TO MAIN HARNESS
28A	SHIELD	TO MAIN HARNESS
29A	R	TO MAIN HARNESS
30A	B	TO MAIN HARNESS
31A	BR	TO MAIN HARNESS
32A	–	TO MAIN HARNESS
33A	W	TO MAIN HARNESS
34A	B	TO MAIN HARNESS
35A	SHIELD	TO MAIN HARNESS
36A	–	TO MAIN HARNESS
37A	LG	TO MAIN HARNESS
38A	V	TO MAIN HARNESS
39A	SB	TO MAIN HARNESS
40A	BR	TO MAIN HARNESS
41A	Y	TO MAIN HARNESS
42A	–	TO MAIN HARNESS
43A	–	TO MAIN HARNESS
44A	V	TO MAIN HARNESS
45A	G	TO MAIN HARNESS
46A	V	TO MAIN HARNESS
47A	L	TO MAIN HARNESS
48A	SB	TO MAIN HARNESS
49A	G	TO MAIN HARNESS
50A	W	TO MAIN HARNESS
51A	–	TO MAIN HARNESS
52A	–	TO MAIN HARNESS
53A	R	TO MAIN HARNESS
54A	SB	TO MAIN HARNESS
55A	LG	TO MAIN HARNESS
56A	Y	TO MAIN HARNESS
57A	SB	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
57A	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
58A	BR	TO MAIN HARNESS
59A	BR	TO MAIN HARNESS
60A	L	TO MAIN HARNESS
61A	Y	TO MAIN HARNESS
62A	–	TO MAIN HARNESS
63A	P	TO MAIN HARNESS
64A	R	TO MAIN HARNESS
65A	SB	TO MAIN HARNESS
66A	L	TO MAIN HARNESS
67A	LG	TO MAIN HARNESS
68A	P	TO MAIN HARNESS
69A	W	TO MAIN HARNESS
70A	G	TO MAIN HARNESS
71A	BR	TO MAIN HARNESS
72A	–	TO MAIN HARNESS
73A	Y	TO MAIN HARNESS
74A	P	TO MAIN HARNESS
75A	V	TO MAIN HARNESS

76A	R	TO MAIN HARNESS
77A	Y	TO MAIN HARNESS
78A	LG	TO MAIN HARNESS
79A	BR	TO MAIN HARNESS
80A	Y	TO MAIN HARNESS
81A	L	TO MAIN HARNESS
82A	BG	TO MAIN HARNESS
83A	Y	TO MAIN HARNESS
84A	LG	TO MAIN HARNESS
85A	SHIELD	TO MAIN HARNESS
86A	LG	TO MAIN HARNESS
87A	SB	TO MAIN HARNESS
88A	BG	TO MAIN HARNESS
89A	L	TO MAIN HARNESS
90A	P	TO MAIN HARNESS
91A	L	TO MAIN HARNESS
92A	LG	TO MAIN HARNESS
93A	B	TO MAIN HARNESS
94A	–	TO MAIN HARNESS
95A	–	TO MAIN HARNESS
96A	–	TO MAIN HARNESS
97A	BR	TO MAIN HARNESS
98A	L	TO MAIN HARNESS
99A	–	TO MAIN HARNESS
100A	–	TO MAIN HARNESS

Connector No.	B73
Connector Name	SUBWOOFER
Connector Type	RS04FGY-PR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	BASS BOX2+
2	W	BASS BOX1+
3	G	BASS BOX2-
4	R	BASS BOX1-

Connector No.	B75
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	TO BODY HARNESS RH
2	SB	TO BODY HARNESS RH
3	L	TO BODY HARNESS RH
4	SB	TO BODY HARNESS RH
5	BR	TO BODY HARNESS RH
6	SHIELD	TO BODY HARNESS RH
7	W	TO BODY HARNESS RH
8	B	TO BODY HARNESS RH
9	V	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	B	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	R	TO BODY HARNESS RH
14	SHIELD	TO BODY HARNESS RH
15	–	TO BODY HARNESS RH
16	–	TO BODY HARNESS RH

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 HARNESS
2	–	TO BODY NO. 3 HARNESS
3	–	TO BODY NO. 3 HARNESS
4	G	TO BODY NO. 3 HARNESS
5	W	TO BODY NO. 3 HARNESS
6	R	TO BODY NO. 3 HARNESS
7	W	TO BODY NO. 3 HARNESS
8	B	TO BODY NO. 3 HARNESS
9	W	TO BODY NO. 3 HARNESS
10	G	TO BODY NO. 3 HARNESS
11	–	TO BODY NO. 3 HARNESS
12	L	TO BODY NO. 3 HARNESS
13	Y	TO BODY NO. 3 HARNESS
14	–	TO BODY NO. 3 HARNESS
15	G	TO BODY NO. 3 HARNESS
16	–	TO BODY NO. 3 HARNESS
17	B	TO BODY NO. 3 HARNESS
18	B	TO BODY NO. 3 HARNESS
19	SHIELD	TO BODY NO. 3 HARNESS
20	R	TO BODY NO. 3 HARNESS
21	B	TO BODY NO. 3 HARNESS
22	W	TO BODY NO. 3 HARNESS
23	SHIELD	TO BODY NO. 3 HARNESS
24	W	TO BODY NO. 3 HARNESS
25	B	TO BODY NO. 3 HARNESS
26	SHIELD	TO BODY NO. 3 HARNESS
27	B	TO BODY NO. 3 HARNESS
28	B	TO BODY NO. 3 HARNESS
29	SHIELD	TO BODY NO. 3 HARNESS
30	LG	TO BODY NO. 3 HARNESS
31	W	TO BODY NO. 3 HARNESS
32	–	TO BODY NO. 3 HARNESS

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	W	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	R	TO MAIN HARNESS
5	V	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO MAIN HARNESS
10	G	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	P	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	L	TO MAIN HARNESS
18	P	TO MAIN HARNESS
19	LG	TO MAIN HARNESS
20	BR	TO MAIN HARNESS
21	LG	TO MAIN HARNESS
22	LG	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	V	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
24	BR	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
25	SB	TO MAIN HARNESS
26	LG	TO MAIN HARNESS
27	Y	TO MAIN HARNESS
28	Y	TO MAIN HARNESS
29	SB	TO MAIN HARNESS
30	LG	TO MAIN HARNESS
31	G	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B107
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	–	TO MAIN HARNESS
2	–	TO MAIN HARNESS
3	–	TO MAIN HARNESS
4	–	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	V	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	R	TO MAIN HARNESS
10	SHIELD	TO MAIN HARNESS
11	B	TO MAIN HARNESS
12	W	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	–	TO MAIN HARNESS
18	–	TO MAIN HARNESS
19	V	TO MAIN HARNESS
20	Y	TO MAIN HARNESS
21	SHIELD	TO MAIN HARNESS
22	B	TO MAIN HARNESS
23	R	TO MAIN HARNESS
24	W	TO MAIN HARNESS

Connector No.	B111
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	LG	TO MAIN HARNESS
5	Y	TO MAIN HARNESS
6	P	TO MAIN HARNESS
7	R	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	W	TO MAIN HARNESS
10	G	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	W	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
13	G	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
14	P	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
14	W	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
15	G	TO MAIN HARNESS
16	R	TO MAIN HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B129
Connector Name	BOSE SPEAKER AMP. (WITHOUT SURROUND SOUND SYSTEM)
Connector Type	SGA12FBR-SJA2
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	RR SIDE TWDR LH AND RH+
2	G	RR SIDE TWDR LH AND RH-
3	W	INST TWDR RH-
4	G	INST TWDR RH+
5	R	BASS BOX WFR2+
6	G	BASS BOX WFR2-
7	B	GND
8	B	BASS BOX WFR1-
9	W	RR DR SP RH-
10	LG	BAT
11	Y	BAT
12	B	GND
13	W	BASS BOX WFR1+
14	G	RR DR SP RH+

Connector No.	B130
Connector Name	BOSE SPEAKER AMP (WITHOUT SURROUND SOUND SYSTEM)
Connector Type	SCA19FBR-SGA4
Connector Color	BROWN

H.S.

37	36	35	34	33		32	31	30	29	28
27	26	25	24	23	22	21	20	19	18	17	16	15

Terminal No.	Color of Wire	Signal Name
15	R	RR DR SP LH-
16	P	INST CENTER SP+
17	R	INST CENTER SP-
18	G	FR DR SP LH+
19	R	FR DR SP LH-

20	W	AMP ON
21	–	–
22	–	–
23	W	RR LH+IN
24	B	RR LH+IN
25	W	RR RH-IN
26	B	RR RH+IN
27	–	–
28	P	RR DR SP LH+
29	R	INST TWDR LH+
30	G	INST TWDR LH-
31	W	FR DR SP RH+
32	P	FR DR SP RH-
33	B	FR RH+IN
34	W	FR RH+IN
35	B	FR LH+IN
36	W	FR LH+IN
37	–	–

Connector No.	B136
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	W	TO MAIN HARNESS
3	BR	TO MAIN HARNESS
4	G	TO MAIN HARNESS
5	BG	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	W	TO MAIN HARNESS
8	W	TO MAIN HARNESS
9	B	TO MAIN HARNESS
10	W	TO MAIN HARNESS
11	SHIELD	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	SHIELD	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	W	TO MAIN HARNESS
17	SHIELD	TO MAIN HARNESS
18	W	TO MAIN HARNESS
19	LG	TO MAIN HARNESS - (WITHOUT SURROUND SOUND SYSTEM)

19	B	TO MAIN HARNESS - (WITH SURROUND SOUND SYSTEM)
20	SB	TO MAIN HARNESS - (WITHOUT SURROUND SOUND SYSTEM)
20	W	TO MAIN HARNESS - (WITH SURROUND SOUND SYSTEM)
21	B	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	SHIELD	TO MAIN HARNESS
24	B	TO MAIN HARNESS
25	W	TO MAIN HARNESS
26	SHIELD	TO MAIN HARNESS
27	B	TO MAIN HARNESS
28	W	TO MAIN HARNESS
29	SHIELD	TO MAIN HARNESS
30	B	TO MAIN HARNESS
31	W	TO MAIN HARNESS
32	L	TO MAIN HARNESS
33	Y	TO MAIN HARNESS
34	–	TO MAIN HARNESS
35	–	TO MAIN HARNESS
36	–	TO MAIN HARNESS
37	BR	TO MAIN HARNESS
38	–	TO MAIN HARNESS
39	–	TO MAIN HARNESS
40	–	TO MAIN HARNESS

Connector No.	B137
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO FRONT SEAT RH HARNESS
2	–	TO FRONT SEAT RH HARNESS
3	SB	TO FRONT SEAT RH HARNESS
4	LG	TO FRONT SEAT RH HARNESS
5	SHIELD	TO FRONT SEAT RH HARNESS
6	SB	TO FRONT SEAT RH HARNESS
7	–	TO FRONT SEAT RH HARNESS
8	SB	TO FRONT SEAT RH HARNESS
9	O	TO FRONT SEAT RH HARNESS
10	SHIELD	TO FRONT SEAT RH HARNESS
11	R	TO FRONT SEAT RH HARNESS
12	B	TO FRONT SEAT RH HARNESS
13	B	TO FRONT SEAT RH HARNESS

14	–	TO FRONT SEAT RH HARNESS
15	B/Y	TO FRONT SEAT RH HARNESS - (WITH SURROUND SOUND SYSTEM)
15	SB	TO FRONT SEAT RH HARNESS - (WITHOUT SURROUND SOUND SYSTEM)
16	L/G	TO FRONT SEAT RH HARNESS
17	–	TO FRONT SEAT RH HARNESS
18	L	TO FRONT SEAT RH HARNESS
19	BR	TO FRONT SEAT RH HARNESS
20	–	TO FRONT SEAT RH HARNESS
21	Y	TO FRONT SEAT RH HARNESS
22	SHIELD	TO FRONT SEAT RH HARNESS
23	G	TO FRONT SEAT RH HARNESS
24	W	TO FRONT SEAT RH HARNESS

Connector No.	B139
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR RH HARNESS
2	–	TO REAR DOOR RH HARNESS
3	B	TO REAR DOOR RH HARNESS
4	G	TO REAR DOOR RH HARNESS
5	–	TO REAR DOOR RH HARNESS
6	BR	TO REAR DOOR RH HARNESS
7	Y	TO REAR DOOR RH HARNESS
8	Y	TO REAR DOOR RH HARNESS
9	–	TO REAR DOOR RH HARNESS
10	–	TO REAR DOOR RH HARNESS
11	SB	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
11	W	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
12	LG	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
12	G	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

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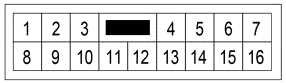
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO BODY HARNESS
2	W	TO BODY HARNESS
3	B	TO BODY HARNESS
4	L	TO BODY HARNESS
5	BR	TO BODY HARNESS
6	Y	TO BODY HARNESS
7	LG	TO BODY HARNESS
8	–	TO BODY HARNESS
9	G	TO BODY HARNESS
10	W	TO BODY HARNESS
11	P	TO BODY HARNESS
12	R	TO BODY HARNESS
13	G	TO BODY HARNESS
14	R	TO BODY HARNESS
15	B	TO BODY HARNESS
16	W	TO BODY HARNESS

Connector No.	B145
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	TO BODY HARNESS
2	SB	TO BODY HARNESS
3	SB	TO BODY HARNESS
4	L	TO BODY HARNESS
5	BR	TO BODY HARNESS
6	SHIELD	TO BODY HARNESS
7	Y	TO BODY HARNESS
8	O	TO BODY HARNESS
9	V	TO BODY HARNESS
10	B	TO BODY HARNESS
11	W	TO BODY HARNESS
12	G	TO BODY HARNESS
13	R	TO BODY HARNESS
14	SHIELD	TO BODY HARNESS
15	–	TO BODY HARNESS
16	–	TO BODY HARNESS

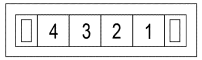
Connector No.	B153
Connector Name	REAR SIDE SPEAKER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	RR SUR SP RH+
2	G	RR SUR SP RH-

Connector No.	B171
Connector Name	JOINT CONNECTOR-B23
Connector Type	TK04FW-J
Connector Color	WHITE

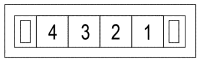
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	RR SIDE TWDR LH AND RH+
3	W	RR SIDE TWDR LH AND RH+
4	W	RR SIDE TWDR LH AND RH+

Connector No.	B172
Connector Name	JOINT CONNECTOR-B25
Connector Type	TK04FW-J
Connector Color	WHITE

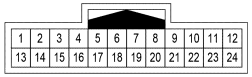
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	G	RR SIDE TWDR LH AND RH-
3	G	RR SIDE TWDR LH AND RH-
4	G	RR SIDE TWDR LH AND RH-

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO BODY HARNESS
2	–	TO BODY HARNESS
3	P	TO BODY HARNESS
4	LG	TO BODY HARNESS
5	–	TO BODY HARNESS
6	G	TO BODY HARNESS
7	–	TO BODY HARNESS
8	V	TO BODY HARNESS
9	Y	TO BODY HARNESS
10	P	TO BODY HARNESS
11	G	TO BODY HARNESS
12	W	TO BODY HARNESS
13	G	TO BODY HARNESS
14	SB	TO BODY HARNESS
15	LG	TO BODY HARNESS
16	R	TO BODY HARNESS
17	BG	TO BODY HARNESS
18	W	TO BODY HARNESS
19	Y	TO BODY HARNESS
20	GR	TO BODY HARNESS
21	G	TO BODY HARNESS
22	LG	TO BODY HARNESS
23	B	TO BODY HARNESS
24	R	TO BODY HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B202
Connector Name	HEADREST DISPLAY UNIT (DRIVER SEAT)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	REAR1 HP LH-
2	G	REAR1 HP RH-
3	LG	REAR1 HP SHIELD
4	–	–
5	Y	REAR1 COMP+
6	–	–
7	W	AUX REQ OUT
8	G	ACC DET IN
9	–	–
10	LG	M-CAN 1L
11	P	M-CAN 1H
12	G	LOCATION DET LH (LH ONLY)
13	BR	ILL
14	–	–
15	W	BAT
16	W	BAT
17	B	REAR1 HP LH-
18	R	REAR1 HP RH-
19	V	AV GND
20	P	REAR1 COMP SHIELD
21	G	REAR1 COMP-
22	–	–
23	Y	CONT GND
24	SB	CON CK B
25	–	–
26	R	M-CAN 2L
27	LG	M-CAN 2H
28	–	–
29	GR	CON CK A
30	–	–
31	G	GND
32	G	GND

Connector No.	B219
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT LH HARNESS
2	G	TO FRONT SEAT LH HARNESS
3	LG	TO FRONT SEAT LH HARNESS
4	–	TO FRONT SEAT LH HARNESS
5	Y	TO FRONT SEAT LH HARNESS
6	–	TO FRONT SEAT LH HARNESS
7	W	TO FRONT SEAT LH HARNESS
8	G	TO FRONT SEAT LH HARNESS
9	–	TO FRONT SEAT LH HARNESS
10	LG	TO FRONT SEAT LH HARNESS
11	P	TO FRONT SEAT LH HARNESS
12	G	TO FRONT SEAT LH HARNESS
13	BR	TO FRONT SEAT LH HARNESS
14	–	TO FRONT SEAT LH HARNESS
15	W	TO FRONT SEAT LH HARNESS
16	W	TO FRONT SEAT LH HARNESS
17	B	TO FRONT SEAT LH HARNESS
18	R	TO FRONT SEAT LH HARNESS
19	V	TO FRONT SEAT LH HARNESS
20	P	TO FRONT SEAT LH HARNESS
21	G	TO FRONT SEAT LH HARNESS
22	–	TO FRONT SEAT LH HARNESS
23	Y	TO FRONT SEAT LH HARNESS
24	SB	TO FRONT SEAT LH HARNESS
25	–	TO FRONT SEAT LH HARNESS
26	R	TO FRONT SEAT LH HARNESS
27	LG	TO FRONT SEAT LH HARNESS
28	–	TO FRONT SEAT LH HARNESS
29	GR	TO FRONT SEAT LH HARNESS
30	–	TO FRONT SEAT LH HARNESS
31	G	TO FRONT SEAT LH HARNESS
32	G	TO FRONT SEAT LH HARNESS

Connector No.	B222
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT LH HARNESS
2	G	TO FRONT SEAT LH HARNESS
3	LG	TO FRONT SEAT LH HARNESS
4	–	TO FRONT SEAT LH HARNESS
5	Y	TO FRONT SEAT LH HARNESS
6	–	TO FRONT SEAT LH HARNESS
7	W	TO FRONT SEAT LH HARNESS
8	G	TO FRONT SEAT LH HARNESS
9	–	TO FRONT SEAT LH HARNESS
10	LG	TO FRONT SEAT LH HARNESS
11	P	TO FRONT SEAT LH HARNESS
12	G	TO FRONT SEAT LH HARNESS
13	BR	TO FRONT SEAT LH HARNESS
14	–	TO FRONT SEAT LH HARNESS
15	W	TO FRONT SEAT LH HARNESS
16	W	TO FRONT SEAT LH HARNESS
17	B	TO FRONT SEAT LH HARNESS
18	R	TO FRONT SEAT LH HARNESS
19	V	TO FRONT SEAT LH HARNESS
20	P	TO FRONT SEAT LH HARNESS
21	G	TO FRONT SEAT LH HARNESS
22	–	TO FRONT SEAT LH HARNESS
23	Y	TO FRONT SEAT LH HARNESS
24	SB	TO FRONT SEAT LH HARNESS
25	–	TO FRONT SEAT LH HARNESS
26	R	TO FRONT SEAT LH HARNESS
27	LG	TO FRONT SEAT LH HARNESS
28	–	TO FRONT SEAT LH HARNESS
29	GR	TO FRONT SEAT LH HARNESS
30	–	TO FRONT SEAT LH HARNESS
31	G	TO FRONT SEAT LH HARNESS
32	G	TO FRONT SEAT LH HARNESS

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	W	TO FRONT SEAT RH HARNESS
2	–	TO FRONT SEAT RH HARNESS
3	P	TO FRONT SEAT RH HARNESS
4	LG	TO FRONT SEAT RH HARNESS
5	SHIELD	TO FRONT SEAT RH HARNESS
6	G	TO FRONT SEAT RH HARNESS
7	–	TO FRONT SEAT RH HARNESS
8	V	TO FRONT SEAT RH HARNESS
9	Y	TO FRONT SEAT RH HARNESS
10	P	TO FRONT SEAT RH HARNESS
11	G	TO FRONT SEAT RH HARNESS
12	W	TO FRONT SEAT RH HARNESS
13	G	TO FRONT SEAT RH HARNESS
14	SB	TO FRONT SEAT RH HARNESS
15	LG	TO FRONT SEAT RH HARNESS
16	R	TO FRONT SEAT RH HARNESS
17	BR	TO FRONT SEAT RH HARNESS
18	W	TO FRONT SEAT RH HARNESS
19	Y	TO FRONT SEAT RH HARNESS
20	GR	TO FRONT SEAT RH HARNESS
21	G	TO FRONT SEAT RH HARNESS
22	LG	TO FRONT SEAT RH HARNESS
23	B	TO FRONT SEAT RH HARNESS
24	R	TO FRONT SEAT RH HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B302
Connector Name	HEADREST DISPLAY UNIT (PASSENGER SEAT)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	REAR1 HP LH+
2	G	REAR1 HP RH+
3	LG	REAR1 HP SHIELD
4	–	–
5	Y	REAR1 COMP+
6	–	–
7	W	AUX REQ OUT
8	G	ACC DET IN
9	–	–
10	LG	M–CAN 1L
11	P	M–CAN 1H
12	–	–
13	BR	ILL
14	–	–
15	W	BAT
16	W	BAT
17	B	REAR1 HP LH-
18	R	REAR1 HP RH-
19	V	AV GND
20	P	REAR1 COMP SHIELD
21	G	REAR1 COMP-
22	–	–
23	Y	CONT GND
24	SB	CON CK B
25	–	–
26	R	M-CAN 2L
27	LG	M-CAN 2H
28	G	LOCATION DET RH (RH ONLY)
29	GR	CON CK A
30	–	–
31	G	GND
32	G	GND

Connector No.	B316
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT RH HARNESS
2	G	TO FRONT SEAT RH HARNESS
3	LG	TO FRONT SEAT RH HARNESS
4	–	TO FRONT SEAT RH HARNESS
5	Y	TO FRONT SEAT RH HARNESS
6	–	TO FRONT SEAT RH HARNESS
7	W	TO FRONT SEAT RH HARNESS
8	G	TO FRONT SEAT RH HARNESS
9	–	TO FRONT SEAT RH HARNESS
10	LG	TO FRONT SEAT RH HARNESS
11	P	TO FRONT SEAT RH HARNESS
12	–	TO FRONT SEAT RH HARNESS
13	BR	TO FRONT SEAT RH HARNESS
14	–	TO FRONT SEAT RH HARNESS
15	W	TO FRONT SEAT RH HARNESS
16	W	TO FRONT SEAT RH HARNESS
17	B	TO FRONT SEAT RH HARNESS
18	R	TO FRONT SEAT RH HARNESS
19	V	TO FRONT SEAT RH HARNESS
20	P	TO FRONT SEAT RH HARNESS
21	G	TO FRONT SEAT RH HARNESS
22	–	TO FRONT SEAT RH HARNESS
23	Y	TO FRONT SEAT RH HARNESS
24	SB	TO FRONT SEAT RH HARNESS
25	–	TO FRONT SEAT RH HARNESS
26	R	TO FRONT SEAT RH HARNESS
27	LG	TO FRONT SEAT RH HARNESS
28	G	TO FRONT SEAT RH HARNESS
29	GR	TO FRONT SEAT RH HARNESS
30	–	TO FRONT SEAT RH HARNESS
31	G	TO FRONT SEAT RH HARNESS
32	G	TO FRONT SEAT RH HARNESS

Connector No.	B317
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT RH HARNESS
2	G	TO FRONT SEAT RH HARNESS
3	LG	TO FRONT SEAT RH HARNESS
4	–	TO FRONT SEAT RH HARNESS
5	Y	TO FRONT SEAT RH HARNESS
6	–	TO FRONT SEAT RH HARNESS
7	W	TO FRONT SEAT RH HARNESS
8	G	TO FRONT SEAT RH HARNESS
9	–	TO FRONT SEAT RH HARNESS
10	LG	TO FRONT SEAT RH HARNESS
11	P	TO FRONT SEAT RH HARNESS
12	–	TO FRONT SEAT RH HARNESS
13	BR	TO FRONT SEAT RH HARNESS
14	–	TO FRONT SEAT RH HARNESS
15	W	TO FRONT SEAT RH HARNESS
16	W	TO FRONT SEAT RH HARNESS
17	B	TO FRONT SEAT RH HARNESS
18	R	TO FRONT SEAT RH HARNESS
19	V	TO FRONT SEAT RH HARNESS
20	P	TO FRONT SEAT RH HARNESS
21	G	TO FRONT SEAT RH HARNESS
22	–	TO FRONT SEAT RH HARNESS
23	Y	TO FRONT SEAT RH HARNESS
24	SB	TO FRONT SEAT RH HARNESS
25	–	TO FRONT SEAT RH HARNESS
26	R	TO FRONT SEAT RH HARNESS
27	LG	TO FRONT SEAT RH HARNESS
28	G	TO FRONT SEAT RH HARNESS
29	GR	TO FRONT SEAT RH HARNESS
30	–	TO FRONT SEAT RH HARNESS
31	G	TO FRONT SEAT RH HARNESS
32	G	TO FRONT SEAT RH HARNESS

Connector No.	B400
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS
2	–	TO BODY HARNESS
3	–	TO BODY HARNESS
4	G	TO BODY HARNESS
5	W	TO BODY HARNESS
6	R	TO BODY HARNESS
7	W	TO BODY HARNESS
8	B	TO BODY HARNESS
9	W	TO BODY HARNESS
10	G	TO BODY HARNESS
11	–	TO BODY HARNESS
12	L	TO BODY HARNESS
13	Y	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	B	TO BODY HARNESS
17	B	TO BODY HARNESS
18	B	TO BODY HARNESS
19	SHIELD	TO BODY HARNESS
20	R	TO BODY HARNESS
21	B	TO BODY HARNESS
22	W	TO BODY HARNESS
23	SHIELD	TO BODY HARNESS
24	W	TO BODY HARNESS
25	B	TO BODY HARNESS
26	SHIELD	TO BODY HARNESS
27	B	TO BODY HARNESS
28	B	TO BODY HARNESS
29	SHIELD	TO BODY HARNESS
30	LG	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	RH12MB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 SUB HARNESS
2	B	TO BODY NO. 3 SUB HARNESS
3	W	TO BODY NO. 3 SUB HARNESS
4	B	TO BODY NO. 3 SUB HARNESS
5	B	TO BODY NO. 3 SUB HARNESS
6	–	TO BODY NO. 3 SUB HARNESS
7	–	TO BODY NO. 3 SUB HARNESS
8	B	TO BODY NO. 3 SUB HARNESS
9	B	TO BODY NO. 3 SUB HARNESS
10	W	TO BODY NO. 3 SUB HARNESS
11	B	TO BODY NO. 3 SUB HARNESS
12	R	TO BODY NO. 3 SUB HARNESS

Connector No.	B452
Connector Name	WIRE TO WIRE
Connector Type	RH12FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 HARNESS
2	P	TO BODY NO. 3 HARNESS
3	G	TO BODY NO. 3 HARNESS
4	L	TO BODY NO. 3 HARNESS
5	Y	TO BODY NO. 3 HARNESS
6	–	TO BODY NO. 3 HARNESS
7	–	TO BODY NO. 3 HARNESS
8	L	TO BODY NO. 3 HARNESS
9	W	TO BODY NO. 3 HARNESS
10	P	TO BODY NO. 3 HARNESS
11	G	TO BODY NO. 3 HARNESS

12	R	TO BODY NO. 3 HARNESS

Connector No.	B455
Connector Name	REAR SONAR SENSOR LH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	G	ROL SENSOR SIGNAL
3	–	–

Connector No.	B456
Connector Name	REAR SONAR SENSOR RH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	W	ROR SENSOR SIGNAL
3	–	–

Connector No.	B457
Connector Name	REAR SONAR SENSOR LH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	Y	RIL SENSOR SIGNAL
3	–	–

Connector No.	B458
Connector Name	REAR SONAR SENSOR RH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	G	RIR SENSOR SIGNAL
3	–	–

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

H.S.

Terminal No.	Color of Wire	Signal Name

1	B	TO MAIN HARNESS
2	Y	TO MAIN HARNESS
3	G/B	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	Y	TO MAIN HARNESS
8	W	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	V	TO MAIN HARNESS
11	BR	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	L	TO MAIN HARNESS
14	SHIELD	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	W	TO MAIN HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	G/B	TO MAIN HARNESS
4	SB	TO MAIN HARNESS
5	LG	TO MAIN HARNESS
6	L	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
9	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
10	BR	TO MAIN HARNESS
11	Y	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	Y	TO MAIN HARNESS
14	LG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
14	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	BR	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
15	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	LG	TO MAIN HARNESS
17	L	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	BG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	BR	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	L	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	Y	TO MAIN HARNESS
20	LG	TO MAIN HARNESS
21	LG	TO MAIN HARNESS
22	Y	TO MAIN HARNESS
23	LG	TO MAIN HARNESS
24	SB	TO MAIN HARNESS
25	BR	TO MAIN HARNESS
26	B	TO MAIN HARNESS
27	–	TO MAIN HARNESS
28	G	TO MAIN HARNESS
29	SHIELD	TO MAIN HARNESS
30	R	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	W	TO MAIN HARNESS
33	V	TO MAIN HARNESS
34	Y	TO MAIN HARNESS
35	BG	TO MAIN HARNESS
36	SB	TO MAIN HARNESS
37	V	TO MAIN HARNESS
38	LG	TO MAIN HARNESS
39	Y	TO MAIN HARNESS
40	BR	TO MAIN HARNESS

Connector No.	D6
Connector Name	DOOR MIRROR LH (WITH AROUND VIEW MONITOR)
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	Y	BATTERY
8	LG	CLOSE
9	Y	OPEN
10	BG	MIRROR MOTOR [LH COMMON (DOWN&RIGHT)]
11	L	MIRROR MOTOR [LH HORIZONTAL(LEFT)]
12	LG	MIRROR MOTOR [LH VERTICAL (UP)]
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	–	–
19	B	TURN -
20	SB	TURN +
21	BG	MIRROR SENSOR (LH VERTICAL)
22	V	MIRROR SENSOR (LH HORIZONTAL)
23	SB	POWER SUPPLY (SENSOR FOR 5V)
24	Y	GND (SENSOR GND)

Connector No.	D12
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS02FW
Connector Color	WHITE

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR DOOR LH+ OUT
2	W	FR DOOR LH- OUT

Connector No.	D20
Connector Name	DOOR MIRROR LH (SIDE CAMERA)
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	R	COMP OUT+
6	W	POWER
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	G	CAMERA CONTROL
17	SHIELD	COMP OUT-
18	B	GND
19	–	–
20	–	–
21	–	–
22	–	–
23	–	–
24	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	W	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	L	TO MAIN HARNESS
8	BR	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	BR	TO MAIN HARNESS
11	LG	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	W/B	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	LG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	L	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	BR	TO MAIN HARNESS
20	SB	TO MAIN HARNESS
21	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	G	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
22	Y	TO MAIN HARNESS
23	LG	TO MAIN HARNESS
24	BR	TO MAIN HARNESS
25	Y	TO MAIN HARNESS
26	LG	TO MAIN HARNESS
27	–	TO MAIN HARNESS
28	–	TO MAIN HARNESS
29	Y	TO MAIN HARNESS
30	LG	TO MAIN HARNESS
31	BR	TO MAIN HARNESS

32	–	TO MAIN HARNESS

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS
Connector Color	WHITE

H.S.

4	3		2	1
10	9	8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	L	TO MAIN HARNESS
5	BR	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	LG	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	W	TO MAIN HARNESS

Connector No.	D112
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS02FW
Connector Color	WHITE

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR DOOR RH+ OUT
2	W	FR DOOR RH- OUT

Connector No.	D113
Connector Name	DOOR MIRROR RH (SIDE CAMERA)
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	R	COMP OUT+
6	W	POWER
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	G	CAMERA CONTROL
17	SHIELD	COMP OUT-
18	B	GND
19	–	–
20	–	–
21	–	–
22	–	–
23	–	–
24	–	–

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	BR	TO BODY HARNESS
2	L	TO BODY HARNESS
3	B	TO BODY HARNESS
4	SB	TO BODY HARNESS
5	–	TO BODY HARNESS
6	–	TO BODY HARNESS
7	–	TO BODY HARNESS
8	V	TO BODY HARNESS
9	R/W	TO BODY HARNESS
10	R/G	TO BODY HARNESS
11	Y	TO BODY HARNESS
12	LG	TO BODY HARNESS

Connector No.	D207
Connector Name	REAR DOOR SPEAKER LH (WITH BOSE AUDIO SYSTEM)
Connector Type	NS02FBR-CS
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	LG	RR DR SP LH+
2	Y	RR DR SP LH-

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W/V	TO BODY HARNESS RH
2	–	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	V	TO BODY HARNESS RH
5	–	TO BODY HARNESS RH
6	Y	TO BODY HARNESS RH
7	LG	TO BODY HARNESS RH
8	SB	TO BODY HARNESS RH
9	R/W	TO BODY HARNESS RH
10	R/G	TO BODY HARNESS RH
11	G	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH

Connector No.	D307
Connector Name	REAR DOOR SPEAKER RH (WITH BOSE AUDIO SYSTEM)
Connector Type	NS02FBR-CS
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	W	RR DR SP RH+
2	G	RR DR SP RH-

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	BR	TO BODY HARNESS
2	BG	TO BODY HARNESS
3	V	TO BODY HARNESS
4	LG	TO BODY HARNESS
5	G	TO BODY HARNESS
6	SB	TO BODY HARNESS
7	L	TO BODY HARNESS
8	R	TO BODY HARNESS
9	G	TO BODY HARNESS
10	W	TO BODY HARNESS
11	P	TO BODY HARNESS
12	Y	TO BODY HARNESS
13	W	TO BODY HARNESS
14	B	TO BODY HARNESS
15	R	TO BODY HARNESS
16	SHIELD	TO BODY HARNESS
17	G	TO BODY HARNESS
18	–	TO BODY HARNESS
19	W	TO BODY HARNESS
20	W	TO BODY HARNESS
21	W	TO BODY HARNESS
22	LG	TO BODY HARNESS
23	Y	TO BODY HARNESS
24	LG	TO BODY HARNESS

Connector No.	D511
Connector Name	REAR VIEW CAMERA (WITH NAVI)
Connector Type	TH08MW-NH
Connector Color	WHITE

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	SHIELD	COMP-
2	–	–
3	–	–
4	G	CONT
5	R	COMP+
6	–	–
7	B	GND
8	W	ON

Connector No.	E5
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO FRONT END MODULE HARNESS
2	SB	TO FRONT END MODULE HARNESS
3	BR	TO FRONT END MODULE HARNESS
4	B	TO FRONT END MODULE HARNESS
5	B	TO FRONT END MODULE HARNESS
6	P	TO FRONT END MODULE HARNESS
7	W/G	TO FRONT END MODULE HARNESS
8	G	TO FRONT END MODULE HARNESS
9	L	TO FRONT END MODULE HARNESS
10	G	TO FRONT END MODULE HARNESS
11	R	TO FRONT END MODULE HARNESS
12	P	TO FRONT END MODULE HARNESS
13	SHIELD	TO FRONT END MODULE HARNESS
14	SHIELD	TO FRONT END MODULE HARNESS
15	P	TO FRONT END MODULE HARNESS
16	B	TO FRONT END MODULE HARNESS

Connector No.	E22
Connector Name	ACCESSORY RELAY-2
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

H.S.

3		
1	5	
2		1

Terminal No.	Color of Wire	Signal Name
1	G	ACC RELAY OUT
2	B	GROUND
3	R	BATT
5	P	ACC

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	E26
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	R	TO FRONT END MODULE HARNESS
2	W	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	SHIELD	TO FRONT END MODULE HARNESS
5	B	TO FRONT END MODULE HARNESS
6	R	TO FRONT END MODULE HARNESS
7	W	TO FRONT END MODULE HARNESS
8	SHIELD	TO FRONT END MODULE HARNESS
9	Y	TO FRONT END MODULE HARNESS
10	BG	TO FRONT END MODULE HARNESS
11	G	TO FRONT END MODULE HARNESS
12	W	TO FRONT END MODULE HARNESS
13	R	TO FRONT END MODULE HARNESS
14	B	TO FRONT END MODULE HARNESS
15	G	TO FRONT END MODULE HARNESS
16	SHIELD	TO FRONT END MODULE HARNESS
17	W	TO FRONT END MODULE HARNESS
18	P	TO FRONT END MODULE HARNESS
19	W	TO FRONT END MODULE HARNESS
20	R	TO FRONT END MODULE HARNESS
21	W	TO FRONT END MODULE HARNESS
22	BR	TO FRONT END MODULE HARNESS
23	V	TO FRONT END MODULE HARNESS

24	SB	TO FRONT END MODULE HARNESS

Connector No.	E44
Connector Name	JOINT CONNECTOR-E01
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	SENSOR POWER SUPPLY
2	W	SENSOR POWER SUPPLY
3	W	SENSOR POWER SUPPLY
4	R	BATTERY
5	R	BATTERY
6	R	BATTERY
7	–	–
8	LG	BATTERY
9	LG	BATTERY
10	LG	BATTERY
11	LG	BATTERY
12	P	BATTERY
13	P	BATTERY
14	P	BATTERY
15	GR	GND
16	B	GND
17	B	GND
18	–	–
19	Y	BATTERY
20	Y	BATTERY
21	Y	BATTERY
22	Y	BATTERY
23	BG	EVAP CONTROL SYSTEM PRESSURE SENSOR
24	O	EVAP CONTROL SYSTEM PRESSURE SENSOR
25	–	–
26	G	GND
27	G	GND
28	G	GND
29	–	–
30	V	BATTERY
31	LG	BATTERY
32	V	BATTERY
33	V	BATTERY

Connector No.	E52
Connector Name	PARKING BRAKE SWITCH
Connector Type	P01FB-A
Connector Color	BLACK

H.S.

1

Terminal No.	Color of Wire	Signal Name
1	LG	PKB

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	W	TO MAIN HARNESS
3G	P	TO MAIN HARNESS
4G	R	TO MAIN HARNESS
5G	P	TO MAIN HARNESS
6G	W	TO MAIN HARNESS
7G	SHIELD	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	LG	TO MAIN HARNESS
10G	P	TO MAIN HARNESS
11G	G	TO MAIN HARNESS
12G	P	TO MAIN HARNESS
13G	W	TO MAIN HARNESS
14G	BG	TO MAIN HARNESS
15G	W	TO MAIN HARNESS
16G	R	TO MAIN HARNESS
17G	B	TO MAIN HARNESS
18G	SHIELD	TO MAIN HARNESS
19G	W	TO MAIN HARNESS
20G	G	TO MAIN HARNESS
21G	P	TO MAIN HARNESS
22G	B	TO MAIN HARNESS
23G	SHIELD	TO MAIN HARNESS
24G	R	TO MAIN HARNESS
25G	W	TO MAIN HARNESS
26G	SHIELD	TO MAIN HARNESS
27G	W	TO MAIN HARNESS
28G	R	TO MAIN HARNESS
29G	B	TO MAIN HARNESS
30G	G	TO MAIN HARNESS
31G	L	TO MAIN HARNESS
32G	LG	TO MAIN HARNESS
33G	LG	TO MAIN HARNESS
34G	W	TO MAIN HARNESS
35G	P	TO MAIN HARNESS
36G	L	TO MAIN HARNESS
37G	BG	TO MAIN HARNESS
38G	W	TO MAIN HARNESS
39G	W	TO MAIN HARNESS
40G	Y	TO MAIN HARNESS
41G	BG	TO MAIN HARNESS
42G	P	TO MAIN HARNESS
43G	R	TO MAIN HARNESS
44G	W	TO MAIN HARNESS
45G	Y	TO MAIN HARNESS
46G	SB	TO MAIN HARNESS
47G	V	TO MAIN HARNESS
48G	BR	TO MAIN HARNESS
49G	W	TO MAIN HARNESS
50G	G	TO MAIN HARNESS
51G	B/W	TO MAIN HARNESS
52G	BR	TO MAIN HARNESS
53G	L	TO MAIN HARNESS
54G	P	TO MAIN HARNESS
55G	BR	TO MAIN HARNESS
56G	R	TO MAIN HARNESS
57G	P	TO MAIN HARNESS
58G	BG	TO MAIN HARNESS
59G	W	TO MAIN HARNESS
60G	B	TO MAIN HARNESS
61G	SHIELD	TO MAIN HARNESS
62G	P	TO MAIN HARNESS
63G	L	TO MAIN HARNESS
64G	R	TO MAIN HARNESS
65G	G/R	TO MAIN HARNESS
66G	R	TO MAIN HARNESS
67G	BG	TO MAIN HARNESS
68G	LG/R	TO MAIN HARNESS
69G	W	TO MAIN HARNESS
70G	G	TO MAIN HARNESS
71G	GR	TO MAIN HARNESS
72G	–	TO MAIN HARNESS
73G	–	TO MAIN HARNESS
74G	–	TO MAIN HARNESS
75G	G	TO MAIN HARNESS
76G	Y	TO MAIN HARNESS
77G	BR	TO MAIN HARNESS
78G	–	TO MAIN HARNESS
79G	P	TO MAIN HARNESS
80G	G	TO MAIN HARNESS
81G	R	TO MAIN HARNESS
82G	–	TO MAIN HARNESS
83G	–	TO MAIN HARNESS
84G	–	TO MAIN HARNESS
85G	–	TO MAIN HARNESS
86G	–	TO MAIN HARNESS
87G	–	TO MAIN HARNESS
88G	–	TO MAIN HARNESS
89G	R	TO MAIN HARNESS
90G	L	TO MAIN HARNESS
91G	L	TO MAIN HARNESS
92G	–	TO MAIN HARNESS
93G	–	TO MAIN HARNESS
94G	Y	TO MAIN HARNESS
95G	W	TO MAIN HARNESS
96G	–	TO MAIN HARNESS
97G	–	TO MAIN HARNESS
98G	–	TO MAIN HARNESS
99G	–	TO MAIN HARNESS
100G	SHIELD	TO MAIN HARNESS

Connector No.	E207
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	P	TO ENGINE ROOM HARNESS
2	P	TO ENGINE ROOM HARNESS
3	R	TO ENGINE ROOM HARNESS
4	B	TO ENGINE ROOM HARNESS
5	G	TO ENGINE ROOM HARNESS
6	–	TO ENGINE ROOM HARNESS
7	–	TO ENGINE ROOM HARNESS
8	G	TO ENGINE ROOM HARNESS
9	R	TO ENGINE ROOM HARNESS
10	G	TO ENGINE ROOM HARNESS
11	P	TO ENGINE ROOM HARNESS
12	R	TO ENGINE ROOM HARNESS
13	SHIELD	TO ENGINE ROOM HARNESS
14	SHIELD	TO ENGINE ROOM HARNESS
15	–	TO ENGINE ROOM HARNESS
16	–	TO ENGINE ROOM HARNESS

Connector No.	E209
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO ENGINE ROOM HARNESS
2	L	TO ENGINE ROOM HARNESS
3	B	TO ENGINE ROOM HARNESS
4	SHIELD	TO ENGINE ROOM HARNESS
5	B	TO ENGINE ROOM HARNESS
6	R	TO ENGINE ROOM HARNESS
7	W	TO ENGINE ROOM HARNESS
8	SHIELD	TO ENGINE ROOM HARNESS
9	Y	TO ENGINE ROOM HARNESS
10	L	TO ENGINE ROOM HARNESS
11	SB	TO ENGINE ROOM HARNESS
12	Y	TO ENGINE ROOM HARNESS
13	R	TO ENGINE ROOM HARNESS
14	B	TO ENGINE ROOM HARNESS
15	G	TO ENGINE ROOM HARNESS
16	SHIELD	TO ENGINE ROOM HARNESS
17	W	TO ENGINE ROOM HARNESS
18	L	TO ENGINE ROOM HARNESS
19	Y	TO ENGINE ROOM HARNESS
20	V	TO ENGINE ROOM HARNESS
21	G	TO ENGINE ROOM HARNESS
22	L	TO ENGINE ROOM HARNESS
23	G	TO ENGINE ROOM HARNESS
24	R	TO ENGINE ROOM HARNESS

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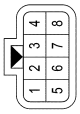
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	E211
Connector Name	WIRE TO WIRE
Connector Type	RS08MGY-PR
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
1	R	TO FRONT FOG LAMP SUB HARNESS
2	B	TO FRONT FOG LAMP SUB HARNESS
3	R	TO FRONT FOG LAMP SUB HARNESS
4	W	TO FRONT FOG LAMP SUB HARNESS
5	W	TO FRONT FOG LAMP SUB HARNESS
6	–	TO FRONT FOG LAMP SUB HARNESS
7	B	TO FRONT FOG LAMP SUB HARNESS
8	B	TO FRONT FOG LAMP SUB HARNESS

Connector No.	E212
Connector Name	WIRE TO WIRE
Connector Type	RS08MGY-PR
Connector Color	GRAY

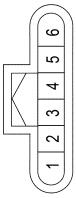
H.S.

Terminal No.	Color of Wire	Signal Name
1	L	TO FRONT FOG LAMP SUB HARNESS
2	B	TO FRONT FOG LAMP SUB HARNESS
3	B	TO FRONT FOG LAMP SUB HARNESS
4	L	TO FRONT FOG LAMP SUB HARNESS
5	Y	TO FRONT FOG LAMP SUB HARNESS
6	G	TO FRONT FOG LAMP SUB HARNESS

7	B	TO FRONT FOG LAMP SUB HARNESS
8	B	TO FRONT FOG LAMP SUB HARNESS

Connector No.	E226
Connector Name	FRONT CAMERA
Connector Type	RH06FB
Connector Color	BLACK

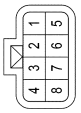
H.S.



Terminal No.	Color of Wire	Signal Name
1	R	ON
2	B	GND
3	G	COMP+
4	SHIELD	COMP-
5	–	–
6	W	CONT

Connector No.	E301
Connector Name	WIRE TO WIRE
Connector Type	RS08FGY-PR
Connector Color	GRAY

H.S.

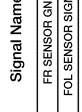


Terminal No.	Color of Wire	Signal Name
1	G	TO FRONT END MODULE HARNESS
2	P	TO FRONT END MODULE HARNESS
3	LG	TO FRONT END MODULE HARNESS
4	W	TO FRONT END MODULE HARNESS
5	R	TO FRONT END MODULE HARNESS
6	R	TO FRONT END MODULE HARNESS
7	B	TO FRONT END MODULE HARNESS

8	B	TO FRONT END MODULE HARNESS

Connector No.	E302
Connector Name	WIRE TO WIRE
Connector Type	RS08FGY-PR
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
1	G	TO FRONT END MODULE HARNESS
2	P	TO FRONT END MODULE HARNESS
3	W	TO FRONT END MODULE HARNESS
4	W	TO FRONT END MODULE HARNESS
5	R	TO FRONT END MODULE HARNESS
6	W	TO FRONT END MODULE HARNESS
7	B	TO FRONT END MODULE HARNESS
8	B	TO FRONT END MODULE HARNESS

Connector No.	E307
Connector Name	FRONT SONAR SENSOR LH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	FR SENSOR GND
2	G	FOL SENSOR SIGNAL
3	–	–

Connector No.	E308
Connector Name	FRONT SONAR SENSOR RH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	–
2	G	FOR SENSOR SIGNAL
3	R	FR SENSOR GND

Connector No.	E309
Connector Name	FRONT SONAR SENSOR LH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	GROUND
2	W	SIGNAL
3	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	E310
Connector Name	FRONT SONAR SENSOR RH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	GROUND
2	W	SIGNAL
3	–	–

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	TO ROOM LAMP HARNESS
2	LG	TO ROOM LAMP HARNESS
3	R	TO ROOM LAMP HARNESS
4	–	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	LG	TO ROOM LAMP HARNESS
7	L	TO ROOM LAMP HARNESS
8	Y	TO ROOM LAMP HARNESS
9	W	TO ROOM LAMP HARNESS
10	LG	TO ROOM LAMP HARNESS
11	BR	TO ROOM LAMP HARNESS
12	R/G	TO ROOM LAMP HARNESS
13	W	TO ROOM LAMP HARNESS
14	B	TO ROOM LAMP HARNESS
15	SHIELD	TO ROOM LAMP HARNESS
16	R	TO ROOM LAMP HARNESS
17	W	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	G	TO ROOM LAMP HARNESS
20	BR	TO ROOM LAMP HARNESS
21	LG	TO ROOM LAMP HARNESS
22	Y	TO ROOM LAMP HARNESS
23	P	TO ROOM LAMP HARNESS
24	B	TO ROOM LAMP HARNESS

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	LG	IGNITION
3P	G	IGN ELEC RELAY OUT 2
4P	–	–
5P	P	IGNITION
6P	BG	REAR DEFOGGER RELAY OUT
7P	LG	IGNITION
8P	BG	IGNITION
9P	L	BATTERY
10P	BR	IGNITION
11P	–	–
12P	–	–
13P	W	BATTERY
14P	Y	BATTERY
15P	L	BATT
16P	W	BLOWER FAN RELAY OUT

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS RH
2	–	TO BODY HARNESS RH
3	–	TO BODY HARNESS RH
4	–	TO BODY HARNESS RH
5	–	TO BODY HARNESS RH
6	GR	TO BODY HARNESS RH
7	V	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	R	TO BODY HARNESS RH
10	SHIELD	TO BODY HARNESS RH
11	W	TO BODY HARNESS RH
12	B	TO BODY HARNESS RH
13	–	TO BODY HARNESS RH
14	–	TO BODY HARNESS RH
15	–	TO BODY HARNESS RH
16	–	TO BODY HARNESS RH
17	–	TO BODY HARNESS RH
18	–	TO BODY HARNESS RH
19	P	TO BODY HARNESS RH
20	G	TO BODY HARNESS RH
21	SHIELD	TO BODY HARNESS RH
22	B	TO BODY HARNESS RH
23	R	TO BODY HARNESS RH
24	W	TO BODY HARNESS RH

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Type	NS16FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	G	TO BODY HARNESS RH
4	L	TO BODY HARNESS RH
5	Y	TO BODY HARNESS RH
6	G	TO BODY HARNESS RH
7	W	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	W	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	R	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	W	TO BODY HARNESS RH
15	P	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
15	G	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
16	W	TO BODY HARNESS RH

ABNIA9100GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH
Connector Color	BLACK

H.S.

80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61
60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41

Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	–	–
47	–	–
48	R	HIGH SIDE START SW LED
49	–	–
50	–	–
51	–	–
52	W	AUDIO DONGLE
53	–	–
54	W	PW LIN/COM
55	BR	R SENSOR K-LINE
56	–	–
57	–	–
58	–	–
59	P	CAN-L
60	L	CAN-H
61	BG	REAR DEFOGGER RELAY OUT
62	W	STARTER RELAY OUT
63	BG	I-KEY LINK SIGNAL
64	P	BUZZER OUT
65	P	DOOR HANDLE LAMP
66	W	BLOWER FAN RELAY OUT
67	G	IGN ELEC RELAY OUT 2
68	P	MR OUTPUT
69	G	AT DEVICE OUT
70	P	IGN USM OUT 1
71	R	DR REQUEST SW
72	G	AS REQUEST SW
73	–	–
74	–	–
75	BG	COMBI SW OUT 5
76	P	COMBI SW OUT 4
77	P	COMBI SW OUT 3
78	W	COMBI SW OUT 2

79	W	COMBI SW OUT 1
80	R	BACK DOOR OPEN SW

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FGY-NH
Connector Color	GRAY

H.S.

92	91	90	89	88	87	86	85	84	83	82	81
104	103	102	101	100	99	98	97	96	95	94	93

Terminal No.	Color of Wire	Signal Name
81	L	BAT REAR WIPER FUSE
82	W	RL DOOR SW
83	BG	BACK DOOR REQUEST SW
84	BR	R WIPER AUTOSTOP SW
85	–	–
86	R	TRAILER FLASHER RL
87	P	TRAILER FLASHER RR
88	–	–
89	LG	REVERSE LAMP OUT
90	–	–
91	–	–
92	R	RR FLASHER
93	R	RR DOOR SW
94	G	AS DOOR SW
95	V	REAR WIPER OUT
96	BG	DR DOOR SW
97	W	BACK DOOR SW
98	–	–
99	P	ROOM ANT 3 B
100	W	ROOM ANT 3 A
101	R	REAR BUMPER ANT B
102	G	REAR BUMPER ANT A
103	BG	RL FLASHER
104	–	–

Connector No.	M22
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	LG	M-CAN-L
4	B	GROUND
5	B	GROUND
6	L	CAN-H
7	R	KLINE
8	LG	IGN SW
9	–	–
10	–	–
11	SB	M-CAN-H
12	P	CAN-L
13	L	CAN-H
14	P	CAN-L
15	–	–
16	BG	POWER

Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	GND1
2	B	GND2
3	P	STRG SW INPUT 1
4	BG	STRG SW INPUT 2
5	P	ACC
6	V	SECURITY
7	R	AIR BAG
8	G	AS BELT
9	Y	DR BUCKLE SW
10	–	–
11	BG	ALTERNATOR (CHARGE)
12	G	PKB
13	–	–
14	G	STRG SW OUTPUT 1
15	W	STRG SW OUTPUT 2
16	B	STRG SW OUTPUT GND
17	–	–
18	–	–
19	–	–
20	–	–
21	BG	IGN
22	W	BAT
23	B	ILLUMI CONT OUT
24	R	STRG SW GND
25	G	BRAKE OIL SW
26	R	FUEL SENSOR GND
27	W	FUEL SENSOR
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	BR	SPEED 2 P/R
34	BG	SPEED 8 P/R
35	–	–
36	–	–
37	–	–
38	P	CAN-L
39	L	CAN-H
40	–	–

Connector No.	M25
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA CODING C
Connector Color	PINK

H.S.

Terminal No.	Color of Wire	Signal Name
188	B	GPS ANT
189	SHIELD	GPS SHIELD

ABNIA9101GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M30
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
24	P	AUDIO STRG SW REMOTE A
25	W	ASCD
31	BG	AUDIO STRG SW REMOTE B
32	G	ASCDG
33	R	AUDIO STRG SW GND

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
1G	P	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)

2G	W	TO ENGINE ROOM HARNESS
3G	P	TO ENGINE ROOM HARNESS
4G	G	TO ENGINE ROOM HARNESS
5G	P	TO ENGINE ROOM HARNESS
6G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6G	R	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7G	SHIELD	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	BG	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R	TO ENGINE ROOM HARNESS
12G	G	TO ENGINE ROOM HARNESS
13G	G	TO ENGINE ROOM HARNESS
14G	V	TO ENGINE ROOM HARNESS
15G	W	TO ENGINE ROOM HARNESS
16G	R	TO ENGINE ROOM HARNESS
17G	B	TO ENGINE ROOM HARNESS
18G	SHIELD	TO ENGINE ROOM HARNESS
19G	SB	TO ENGINE ROOM HARNESS
20G	LG	TO ENGINE ROOM HARNESS
21G	R	TO ENGINE ROOM HARNESS
22G	B	TO ENGINE ROOM HARNESS
23G	SHIELD	TO ENGINE ROOM HARNESS
24G	W	TO ENGINE ROOM HARNESS
25G	R	TO ENGINE ROOM HARNESS
26G	SHIELD	TO ENGINE ROOM HARNESS
27G	B	TO ENGINE ROOM HARNESS
28G	W	TO ENGINE ROOM HARNESS
29G	G	TO ENGINE ROOM HARNESS
30G	R	TO ENGINE ROOM HARNESS
31G	L	TO ENGINE ROOM HARNESS
32G	G	TO ENGINE ROOM HARNESS
33G	G	TO ENGINE ROOM HARNESS
34G	G	TO ENGINE ROOM HARNESS
35G	P	TO ENGINE ROOM HARNESS
36G	L	TO ENGINE ROOM HARNESS
37G	L	TO ENGINE ROOM HARNESS
38G	W	TO ENGINE ROOM HARNESS
39G	R	TO ENGINE ROOM HARNESS
40G	Y	TO ENGINE ROOM HARNESS
41G	L	TO ENGINE ROOM HARNESS
42G	P	TO ENGINE ROOM HARNESS
43G	W	TO ENGINE ROOM HARNESS
44G	G	TO ENGINE ROOM HARNESS
45G	R	TO ENGINE ROOM HARNESS
46G	Y	TO ENGINE ROOM HARNESS
47G	Y	TO ENGINE ROOM HARNESS
48G	LG	TO ENGINE ROOM HARNESS
49G	P	TO ENGINE ROOM HARNESS
50G	L	TO ENGINE ROOM HARNESS
51G	B/W	TO ENGINE ROOM HARNESS
52G	BR	TO ENGINE ROOM HARNESS
53G	L	TO ENGINE ROOM HARNESS
54G	BG	TO ENGINE ROOM HARNESS
55G	G	TO ENGINE ROOM HARNESS
56G	P	TO ENGINE ROOM HARNESS
57G	P	TO ENGINE ROOM HARNESS
58G	L	TO ENGINE ROOM HARNESS
59G	B	TO ENGINE ROOM HARNESS
60G	W	TO ENGINE ROOM HARNESS
61G	SHIELD	TO ENGINE ROOM HARNESS
62G	G	TO ENGINE ROOM HARNESS
63G	P	TO ENGINE ROOM HARNESS
64G	W	TO ENGINE ROOM HARNESS
65G	G/R	TO ENGINE ROOM HARNESS
66G	R	TO ENGINE ROOM HARNESS
67G	W	TO ENGINE ROOM HARNESS
68G	LG/R	TO ENGINE ROOM HARNESS
69G	P	TO ENGINE ROOM HARNESS
70G	BG	TO ENGINE ROOM HARNESS
71G	GR	TO ENGINE ROOM HARNESS
72G	–	TO ENGINE ROOM HARNESS
73G	–	TO ENGINE ROOM HARNESS
74G	–	TO ENGINE ROOM HARNESS
75G	G	TO ENGINE ROOM HARNESS
76G	Y	TO ENGINE ROOM HARNESS
77G	BR	TO ENGINE ROOM HARNESS
78G	–	TO ENGINE ROOM HARNESS
79G	R	TO ENGINE ROOM HARNESS
80G	W	TO ENGINE ROOM HARNESS
81G	G	TO ENGINE ROOM HARNESS
82G	P	TO ENGINE ROOM HARNESS
83G	P	TO ENGINE ROOM HARNESS
84G	P	TO ENGINE ROOM HARNESS
85G	P	TO ENGINE ROOM HARNESS
86G	P	TO ENGINE ROOM HARNESS
87G	P	TO ENGINE ROOM HARNESS
88G	P	TO ENGINE ROOM HARNESS
89G	R	TO ENGINE ROOM HARNESS
90G	P	TO ENGINE ROOM HARNESS
91G	L	TO ENGINE ROOM HARNESS
92G	P	TO ENGINE ROOM HARNESS
93G	P	TO ENGINE ROOM HARNESS
94G	O	TO ENGINE ROOM HARNESS
95G	B	TO ENGINE ROOM HARNESS
96G	P	TO ENGINE ROOM HARNESS
97G	P	TO ENGINE ROOM HARNESS
98G	P	TO ENGINE ROOM HARNESS
99G	P	TO ENGINE ROOM HARNESS
100G	SHIELD	TO ENGINE ROOM HARNESS

ABNIA9102GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	V	TO BODY HARNESS RH
2	G	TO BODY HARNESS RH
3	Y	TO BODY HARNESS RH
4	R	TO BODY HARNESS RH
5	BG	TO BODY HARNESS RH
6	LG	TO BODY HARNESS RH
7	SB	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	B	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	SHIELD	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH
13	B	TO BODY HARNESS RH
14	SHIELD	TO BODY HARNESS RH
15	B	TO BODY HARNESS RH
16	W	TO BODY HARNESS RH
17	SHIELD	TO BODY HARNESS RH
18	SB	TO BODY HARNESS RH
19	LG	TO BODY HARNESS RH
20	SB	TO BODY HARNESS RH
21	B	TO BODY HARNESS RH
22	W	TO BODY HARNESS RH
23	SHIELD	TO BODY HARNESS RH
24	W	TO BODY HARNESS RH
25	B	TO BODY HARNESS RH
26	SHIELD	TO BODY HARNESS RH
27	B	TO BODY HARNESS RH
28	W	TO BODY HARNESS RH
29	SHIELD	TO BODY HARNESS RH
30	B	TO BODY HARNESS RH
31	W	TO BODY HARNESS RH
32	L	TO BODY HARNESS RH
33	Y	TO BODY HARNESS RH
34	-	TO BODY HARNESS RH
35	-	TO BODY HARNESS RH
36	-	TO BODY HARNESS RH
37	BR	TO BODY HARNESS RH
38	-	TO BODY HARNESS RH
39	-	TO BODY HARNESS RH
40	-	TO BODY HARNESS RH

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	GR	TO BODY HARNESS
2A	BR	TO BODY HARNESS
3A	Y	TO BODY HARNESS
4A	V	TO BODY HARNESS
5A	L/B	TO BODY HARNESS
6A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	G	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	Y	TO BODY HARNESS
8A	W	TO BODY HARNESS
9A	L	TO BODY HARNESS
10A	R	TO BODY HARNESS
11A	R	TO BODY HARNESS
12A	BG	TO BODY HARNESS
13A	O	TO BODY HARNESS
14A	LG	TO BODY HARNESS
15A	R	TO BODY HARNESS
16A	G	TO BODY HARNESS
17A	B	TO BODY HARNESS
18A	B	TO BODY HARNESS
19A	SHIELD	TO BODY HARNESS
20A	B	TO BODY HARNESS
21A	SHIELD	TO BODY HARNESS
22A	-	TO BODY HARNESS
23A	W	TO BODY HARNESS
24A	B	TO BODY HARNESS
25A	SHIELD	TO BODY HARNESS
26A	B	TO BODY HARNESS
27A	B	TO BODY HARNESS
28A	SHIELD	TO BODY HARNESS
29A	R	TO BODY HARNESS
30A	B	TO BODY HARNESS
31A	R	TO BODY HARNESS
32A	Y/R	TO BODY HARNESS
33A	W	TO BODY HARNESS
34A	B	TO BODY HARNESS
35A	SHIELD	TO BODY HARNESS
36A	L/Y	TO BODY HARNESS
37A	LG	TO BODY HARNESS
38A	V	TO BODY HARNESS
39A	SB	TO BODY HARNESS
40A	BR	TO BODY HARNESS
41A	Y	TO BODY HARNESS
42A	G	TO BODY HARNESS
43A	-	TO BODY HARNESS
44A	W	TO BODY HARNESS
45A	R	TO BODY HARNESS
46A	BG	TO BODY HARNESS
47A	LG	TO BODY HARNESS
48A	R	TO BODY HARNESS
49A	P	TO BODY HARNESS
50A	W	TO BODY HARNESS
51A	L	TO BODY HARNESS
52A	P	TO BODY HARNESS
53A	G	TO BODY HARNESS
54A	W	TO BODY HARNESS
55A	BG	TO BODY HARNESS
56A	BR	TO BODY HARNESS
57A	P	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
57A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
58A	G	TO BODY HARNESS
59A	SB	TO BODY HARNESS
60A	L	TO BODY HARNESS
61A	G	TO BODY HARNESS
62A	BR	TO BODY HARNESS
63A	BR	TO BODY HARNESS
64A	Y	TO BODY HARNESS
65A	W	TO BODY HARNESS
66A	BG	TO BODY HARNESS
67A	Y	TO BODY HARNESS
69A	LG	TO BODY HARNESS
69A	R	TO BODY HARNESS
70A	P	TO BODY HARNESS
71A	BR	TO BODY HARNESS
72A	SB	TO BODY HARNESS
73A	BG	TO BODY HARNESS
74A	BR	TO BODY HARNESS
75A	LG	TO BODY HARNESS
76A	W	TO BODY HARNESS
77A	L	TO BODY HARNESS
78A	V	TO BODY HARNESS
79A	LG	TO BODY HARNESS
80A	Y	TO BODY HARNESS
81A	L	TO BODY HARNESS
82A	BG	TO BODY HARNESS
83A	Y	TO BODY HARNESS
84A	LG	TO BODY HARNESS
85A	SHIELD	TO BODY HARNESS
86A	Y	TO BODY HARNESS
87A	LG	TO BODY HARNESS
88A	BR	TO BODY HARNESS
89A	L	TO BODY HARNESS
90A	P	TO BODY HARNESS
91A	L	TO BODY HARNESS
92A	L	TO BODY HARNESS
93A	B	TO BODY HARNESS
94A	W	TO BODY HARNESS
95A	W	TO BODY HARNESS
96A	-	TO BODY HARNESS
97A	SB	TO BODY HARNESS
98A	Y	TO BODY HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
98A	L	TO BODY HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
99A	-	TO BODY HARNESS
100A	-	TO BODY HARNESS

ABNIA9103GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M47
Connector Name	TCU
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	B+
2	B	GND
3	P	ACC
4	LG	IGN
5	G	ACC OUT
6	G	AV ACC
7	B	GND
8	–	–
9	L	V CAN-H
10	P	V CAN-L
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	W	MIC VCC
19	B	MIC SIG
20	SHIELD	MIC GND
21	W	MIC VCC DETECTION
22	B	DCM MIC SIG
23	SHIELD	DCM MIC GND
24	–	–
25	–	–
26	–	–
27	–	–
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	–	–
34	R	ECALL SW
35	W	LED A
36	–	–
37	–	–
38	–	–
39	–	–
40	–	–

Connector No.	M55
Connector Name	AV CONTROL UNIT
Connector Type	GT17HN-4DP-2H(A)
Connector Color	BLUE

H.S.

138	137
140	139
141	

Terminal No.	Color of Wire	Signal Name
137	R	VBUS
138	B	USB GND
139	G	USB D+
140	W	USB D-
141	SHIELD	SHIELD

Connector No.	M56
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO CONSOLE SUB HARNESS
2	W	TO CONSOLE SUB HARNESS
3	SHIELD	TO CONSOLE SUB HARNESS
4	P	TO CONSOLE SUB HARNESS
5	Y	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	SHIELD	TO CONSOLE SUB HARNESS
8	P	TO CONSOLE SUB HARNESS
9	Y	TO CONSOLE SUB HARNESS
10	–	TO CONSOLE SUB HARNESS
11	–	TO CONSOLE SUB HARNESS
12	–	TO CONSOLE SUB HARNESS
13	R	TO CONSOLE SUB HARNESS
14	W	TO CONSOLE SUB HARNESS
15	B	TO CONSOLE SUB HARNESS
16	SHIELD	TO CONSOLE SUB HARNESS

Connector No.	M62
Connector Name	INSTRUMENT PANEL TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR INST TWDR LH+
2	W	FR INST TWDR LH-

Connector No.	M63
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO CONSOLE SUB HARNESS
2	G	TO CONSOLE SUB HARNESS
3	R	TO CONSOLE SUB HARNESS
4	SHIELD	TO CONSOLE SUB HARNESS
5	W	TO CONSOLE SUB HARNESS
6	B	TO CONSOLE SUB HARNESS
7	V	TO CONSOLE SUB HARNESS
8	G	TO CONSOLE SUB HARNESS
9	R	TO CONSOLE SUB HARNESS
10	SHIELD	TO CONSOLE SUB HARNESS
11	W	TO CONSOLE SUB HARNESS
12	B	TO CONSOLE SUB HARNESS
13	L	TO CONSOLE SUB HARNESS
14	G	TO CONSOLE SUB HARNESS
15	R	TO CONSOLE SUB HARNESS
16	SHIELD	TO CONSOLE SUB HARNESS
17	W	TO CONSOLE SUB HARNESS
18	B	TO CONSOLE SUB HARNESS
19	L	TO CONSOLE SUB HARNESS
20	G	TO CONSOLE SUB HARNESS
21	R	TO CONSOLE SUB HARNESS
22	SHIELD	TO CONSOLE SUB HARNESS
23	W	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS

Connector No.	M64
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO CONSOLE SUB HARNESS
2	B	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	LG	TO CONSOLE SUB HARNESS
5	SHIELD	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	BG	TO CONSOLE SUB HARNESS
9	B	TO CONSOLE SUB HARNESS
10	–	TO CONSOLE SUB HARNESS
11	B/W	TO CONSOLE SUB HARNESS
12	BR	TO CONSOLE SUB HARNESS
13	Y	TO CONSOLE SUB HARNESS
14	SB	TO CONSOLE SUB HARNESS
15	L	TO CONSOLE SUB HARNESS
16	LG	TO CONSOLE SUB HARNESS

ABNIA9104GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M65
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SUB HARNESS
2	G	TO CONSOLE SUB HARNESS
3	BR	TO CONSOLE SUB HARNESS
4	BG	TO CONSOLE SUB HARNESS
5	W	TO CONSOLE SUB HARNESS
6	P	TO CONSOLE SUB HARNESS
7	W	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	LG	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	R	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
8	L	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
9	V	TO CONSOLE SUB HARNESS
10	BG	TO CONSOLE SUB HARNESS
11	P	TO CONSOLE SUB HARNESS
12	G	TO CONSOLE SUB HARNESS
13	SHIELD	TO CONSOLE SUB HARNESS
14	B	TO CONSOLE SUB HARNESS
15	R	TO CONSOLE SUB HARNESS
16	W	TO CONSOLE SUB HARNESS
17	SB	TO CONSOLE SUB HARNESS
18	P	TO CONSOLE SUB HARNESS
19	G	TO CONSOLE SUB HARNESS
20	BG	TO CONSOLE SUB HARNESS
21	R	TO CONSOLE SUB HARNESS
22	W	TO CONSOLE SUB HARNESS
23	R	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS
25	G	TO CONSOLE SUB HARNESS
26	W	TO CONSOLE SUB HARNESS
27	LG	TO CONSOLE SUB HARNESS
28	B	TO CONSOLE SUB HARNESS
29	BR	TO CONSOLE SUB HARNESS
30	SHIELD	TO CONSOLE SUB HARNESS
31	B	TO CONSOLE SUB HARNESS
32	W	TO CONSOLE SUB HARNESS

Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	L	TO BODY HARNESS
2	G	TO BODY HARNESS
3	Y	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
3	R	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
4	P	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
4	SHIELD	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
5	LG	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	W	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	BG	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	SB	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	G	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
9	R	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
10	SHIELD	TO BODY HARNESS
11	B	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
11	W	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
12	W	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
12	B	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
13	Y	TO BODY HARNESS
14	SB	TO BODY HARNESS
15	LG	TO BODY HARNESS
16	LG	TO BODY HARNESS
17	SB	TO BODY HARNESS
18	G	TO BODY HARNESS
19	P	TO BODY HARNESS
20	W	TO BODY HARNESS
21	R	TO BODY HARNESS
22	B	TO BODY HARNESS
23	SHIELD	TO BODY HARNESS
24	-	TO BODY HARNESS

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1R	R	TAIL LH
2R	LG	IGNITION
3R	G	BATTERY
4R	-	-
5R	Y	BATTERY
6R	Y	IGNITION
7R	-	-
8R	-	-
9R	G	BRAKE
10R	W	BATTERY
11R	-	-
12R	-	-
13R	GR	GROUND
14R	-	-
15R	-	-
16R	BG	IGNITION

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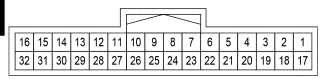
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

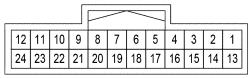
H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO BODY HARNESS - (WITHOUT NAVI)
1	R	TO BODY HARNESS - (WITH NAVI)
2	B	TO BODY HARNESS - (WITHOUT NAVI)
2	W	TO BODY HARNESS - (WITH NAVI)
3	R	TO BODY HARNESS - (WITHOUT NAVI)
3	B	TO BODY HARNESS - (WITH NAVI)
4	SHIELD	TO BODY HARNESS
5	B	TO BODY HARNESS
6	W	TO BODY HARNESS
7	SHIELD	TO BODY HARNESS
8	B	TO BODY HARNESS
9	SB	TO BODY HARNESS
10	BG	TO BODY HARNESS
11	R	TO BODY HARNESS
12	W	TO BODY HARNESS
13	–	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	L	TO BODY HARNESS
17	P	TO BODY HARNESS - (WITHOUT NAVI)
17	Y	TO BODY HARNESS - (WITH NAVI)
18	Y	TO BODY HARNESS - (WITHOUT NAVI)
18	P	TO BODY HARNESS - (WITH NAVI)
19	W	TO BODY HARNESS - (WITHOUT NAVI)
19	B	TO BODY HARNESS - (WITH NAVI)
20	B	TO BODY HARNESS - (WITHOUT NAVI)
20	W	TO BODY HARNESS - (WITH NAVI)
21	R	TO BODY HARNESS - (WITHOUT NAVI)
21	SHIELD	TO BODY HARNESS - (WITH NAVI)
22	G	TO BODY HARNESS - (WITHOUT NAVI)
22	W	TO BODY HARNESS - (WITH NAVI)
23	SHIELD	TO BODY HARNESS - (WITHOUT NAVI)
23	R	TO BODY HARNESS - (WITH NAVI)
24	SHIELD	TO BODY HARNESS
25	B	TO BODY HARNESS
26	G	TO BODY HARNESS
27	R	TO BODY HARNESS - (WITHOUT NAVI)
27	B	TO BODY HARNESS - (WITH NAVI)
28	B	TO BODY HARNESS - (WITHOUT NAVI)
28	R	TO BODY HARNESS - (WITH NAVI)
29	G	TO BODY HARNESS - (WITH NAVI)
29	W	TO BODY HARNESS - (WITHOUT NAVI)
30	SHIELD	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

Connector No.	M70
Connector Name	SONAR CONTROL UNIT
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	FIR SENSOR SIGNAL
2	B	FIL SENSOR SIGNAL
3	R	FOL SENSOR SIGNAL
4	R	FOR SENSOR SIGNAL
5	B	V CAN-H
6	W	V CAN-L
7	–	–
8	–	–
9	B	RIR SENSOR SIGNAL
10	B	ROR SENSOR SIGNAL
11	–	–
12	LG	IGN
13	B	FR SENSOR GND
14	B	RR SENSOR GND
15	GR	GND
16	LG	DISABLE SW
17	GR	LED OUTPUT
18	–	–
19	BR	SPEAKER PWR
20	LG	SPEAKER RR SIGNAL
21	B	RIL SENSOR SIGNAL
22	W	ROL SENSOR SIGNAL
23	–	–
24	–	–

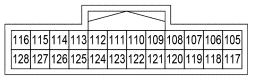
Connector No.	M73
Connector Name	INSTRUMENT PANEL TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	FR INST TWDR RH+
2	W	FR INST TWDR RH-

Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
105	LG	FR FLASHER
106	–	–
107	W	LOW SIDE START SW LED
108	G	SHIFT LOCK SOLENOID OUT
109	R	REVERSE SIGNAL
110	–	–
111	P	ACC LED
112	–	–
113	L	ACC RELAY OUT
114	W	AS DOOR ANT A
115	BG	AS DOOR ANT B
116	W	ROOM ANT 2 A
117	SB	FL FLASHER
118	–	–
119	R	RF NIMOCO
120	–	–
121	G	DR DOOR ANT B
122	P	DR DOOR ANT A
123	–	–
124	–	–
125	–	–
126	P	IMMO START BUTTON ANT B
127	BG	IMMO START BUTTON ANT A
128	R	ROOM ANT 2 B

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	SHIELD	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	P	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS RH
10	G	TO BODY HARNESS RH
11	L	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	P	TO BODY HARNESS RH
15	O	TO BODY HARNESS RH
16	SB	TO BODY HARNESS RH
17	L	TO BODY HARNESS RH
18	P	TO BODY HARNESS RH
19	R	TO BODY HARNESS RH
20	–	TO BODY HARNESS RH
21	G	TO BODY HARNESS RH
22	R	TO BODY HARNESS RH
23	G	TO BODY HARNESS RH
24	R	TO BODY HARNESS RH - (WITH CLIMATE CONTROLLED SEAT)
24	V	TO BODY HARNESS RH - (WITHOUT CLIMATE CONTROLLED SEAT)
25	W	TO BODY HARNESS RH
26	W	TO BODY HARNESS RH
27	BG	TO BODY HARNESS RH
28	V	TO BODY HARNESS RH
29	SB	TO BODY HARNESS RH
30	L	TO BODY HARNESS RH
31	W	TO BODY HARNESS RH
32	–	TO BODY HARNESS RH

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT DOOR RH HARNESS
2	SHIELD	TO FRONT DOOR RH HARNESS
3	G	TO FRONT DOOR RH HARNESS
4	R	TO FRONT DOOR RH HARNESS
5	B	TO FRONT DOOR RH HARNESS
6	G	TO FRONT DOOR RH HARNESS
7	Y	TO FRONT DOOR RH HARNESS
8	W	TO FRONT DOOR RH HARNESS
9	BG	TO FRONT DOOR RH HARNESS
10	P	TO FRONT DOOR RH HARNESS
11	LG	TO FRONT DOOR RH HARNESS
12	B	TO FRONT DOOR RH HARNESS
13	W	TO FRONT DOOR RH HARNESS
14	Y/R	TO FRONT DOOR RH HARNESS
15	GR	TO FRONT DOOR RH HARNESS
16	B/W	TO FRONT DOOR RH HARNESS
17	BG	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	G	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	W	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	BG	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	G	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
19	P	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
20	G	TO FRONT DOOR RH HARNESS
21	W	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	R	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
22	SB	TO FRONT DOOR RH HARNESS
23	P	TO FRONT DOOR RH HARNESS
24	G	TO FRONT DOOR RH HARNESS
25	BG	TO FRONT DOOR RH HARNESS
26	W	TO FRONT DOOR RH HARNESS
27	–	TO FRONT DOOR RH HARNESS
28	–	TO FRONT DOOR RH HARNESS
29	W	TO FRONT DOOR RH HARNESS
30	SB	TO FRONT DOOR RH HARNESS
31	W	TO FRONT DOOR RH HARNESS
32	–	TO FRONT DOOR RH HARNESS

Connector No.	M92
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	–	–
6	SHIELD	FRONT COMP SHIELD
7	SHIELD	SHIELD
8	B	R CAMERA COMP
9	B	FRONT DISP IT
10	W	IT FRONT DISP
11	Y	BATT
12	B	GND
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	B	FRONT COMP +
19	W	FRONT COMP -
20	R	FRONT COMP SYNC
21	–	–
22	SHIELD	SHIELD
23	P	ACC
24	–	–

Connector No.	M95
Connector Name	WIRE TO WIRE
Connector Type	GT13SH-2/1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M96
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	Y	+B
3	LG	IGN
4	P	ACC
5	–	–
6	–	–
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	–	–
19	B	MCAN-1H
20	W	MCAN-1L
21	–	–
22	–	–
23	SHIELD	MCAN GND
24	–	–
25	LG	REV
26	–	–
27	B	CAN-H
28	W	CAN-L
29	SHIELD	CAN GND
30	W	MIRROR SIGNAL 2
31	–	–
32	G	MIRROR SIGNAL 1
33	–	–
34	–	–
35	–	–
36	–	–
37	–	–
38	–	–
39	–	–
40	–	–

Connector No.	M97
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72
41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71

Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	–	–
47	B	VIDEO OUTPUT +
48	SHIELD	VIDEO OUTPUT -
49	W	RV SERIAL SIGNAL
50	B	RV POWER
51	–	–
52	R	RV POWER GND
53	G	RV VIDEO +
54	SHIELD	RV VIDEO -
55	B	SV2 SERIAL SIGNAL
56	W	SV2 POWER
57	–	–
58	G	SV2 POWER GND
59	R	SV2 VIDEO +
60	SHIELD	SV2 POWER GND
61	W	SV1 SERIAL SIGNAL
62	B	SV1 POWER
63	–	–
64	R	SV1 POWER GND
65	G	SV1 VIDEO +
66	SHIELD	SV1 VIDEO -
67	B	FV SERIAL SIGNAL
68	W	FV POWER
69	–	–
70	G	FV POWER GND
71	R	FV VIDEO +
72	SHIELD	FV VIDEO -

Connector No.	M98
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	GR	GND
2	–	–
3	P	ACC
4	R	ILL
5	B	ILL CONT
6	SB	MCAN-H
7	–	–
8	LG	MCAN-L
9	V	EJECT GND
10	–	–
11	–	–
12	–	–
13	–	–
14	Y	CD (DVD) EJECT
15	R	AIRBAG CUTOFF
16	LG	HAZARD

Connector No.	M109
Connector Name	FRONT TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2 1

Terminal No.	Color of Wire	Signal Name
1	P	FR DR SP LH+ (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
1	G	FR DR SP LH+ (WITH BOSE AUDIO SYSTEM WITH SURROUND SOUND SYSTEM)
2	W	FR DR SP LH- (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)

2	R	FR DR SP LH- (WITH BOSE AUDIO SYSTEM WITH SURROUND SOUND SYSTEM)

Connector No.	M110
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2 1

Terminal No.	Color of Wire	Signal Name
1	G	FRONT CENTER SP+
2	W	FRONT CENTER SP-

Connector No.	M111
Connector Name	FRONT TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2 1

Terminal No.	Color of Wire	Signal Name
1	W	FR DR SP RH+ (WITH SURROUND SOUND SYSTEM)
1	G	FR DR SP RH+ (WITHOUT SURROUND SOUND SYSTEM)
2	B	FR DR SP RH- (WITH SURROUND SOUND SYSTEM)
2	W	FR DR SP RH- (WITHOUT SURROUND SOUND SYSTEM)

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M115
Connector Name	WIRE TO WIRE
Connector Type	GT17VS-6DS-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO CONSOLE SUB HARNESS
2	R	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	W	TO CONSOLE SUB HARNESS
5	–	TO CONSOLE SUB HARNESS
6	G	TO CONSOLE SUB HARNESS
7	–	TO CONSOLE SUB HARNESS

Connector No.	M120
Connector Name	JOINT CONNECTOR-M21
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	REVERSE LAMP OUT
2	LG	REVERSE LAMP OUT
3	LG	REVERSE LAMP OUT
4	–	–

Connector No.	M122
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI WITHOUT SURROUND SOUND SYSTEM)
Connector Type	NH18FW-CS2
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	AMP ON
2	B	FR LH PRE +
3	W	FR LH PRE -
4	B	RR LH PRE +
5	W	RR LH PRE -
6	G	STRG SW A
7	G	ACC (WITH TELEMATICS SYSTEM)
7	P	ACC (WITHOUT TELEMATICS SYSTEM)
8	–	–
9	–	–
10	BR	SHIELD
11	W	FR RH PRE +
12	B	FR RH PRE -
13	B	RR RH PRE +
14	W	RR RH PRE -
15	B	STRG SW GND
16	W	STRG SW B
17	–	–
18	–	–
19	Y	(+) B
20	GR	GND

Connector No.	M123
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI WITHOUT SURROUND SOUND SYSTEM)
Connector Type	TH28FW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
21	–	–
22	–	–
23	–	–
24	W	AUX AUDIO LH
25	–	–
26	W	HP 1 LH+
27	B	HP 1 RH+
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	–	–
34	–	–
35	–	–
36	–	–
37	SHIELD	AUX SHIELD
38	R	AUX AUDIO RH
39	B	AUX AUDIO
40	R	HP 1 LH-
41	G	HP 1 RH-
42	SHIELD	HP 1 SHIELD
43	–	–
44	–	–
45	–	–
46	–	–
47	–	–
48	–	–

Connector No.	M124
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI WITHOUT SURROUND SOUND SYSTEM)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
49	–	–
50	–	–
51	–	–
52	–	–
53	G	PKB SIG
54	–	–
55	W	NAVI COMP 1-
56	B	NAVI COMP 1+
57	BG	I-KEY MEMORY
58	G	AV-ACC (DCM)
59	SHIELD	PKB SIGMIC GND
60	W	MIC VCC
61	W	IT DISP
62	P	CAN-L
63	LG	M CAN-L
64	LG	M CAN-L TRM
65	–	–
66	–	–
67	P	MR OUTPUT
68	LG	IGN
69	R	REVERSE SIG
70	BG	SPEED
71	SHIELD	NAVI COMP 1 SHIELD
72	R	NAVI COMP 1 SYNC
73	–	–
74	–	–
75	B	MIC SIG
76	SHIELD	DISP SHIELD
77	B	DISP IT
78	L	CAN-H
79	SB	M CAN-H
80	SB	M CAN-H TRM

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M125
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI WITHOUT SURROUND SOUND SYSTEM)
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

81	83	85	87	89	91	93	95	97	99	101	103	105	107	109	111	113	115	117	119
82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120

Terminal No.	Color of Wire	Signal Name
81	–	–
82	–	–
83	–	–
84	–	–
85	–	–
86	–	–
87	–	–
88	–	–
89	–	–
90	–	–
91	W	AUX VIDEO+
92	B	AUX VIDEO-
93	–	–
94	SHIELD	VIDEO SHIELD
95	–	–
96	–	–
97	Y	DVD EJECT
98	V	EJECT GND
99	–	–
100	–	–
101	–	–
102	–	–
103	–	–
104	–	–
105	W	NAVI COMP 2-
106	SHIELD	NAVI COMP 2 SHIELD
107	B	NAVI COMP 2+
108	–	–
109	–	–
110	–	–
111	–	–
112	–	–
113	–	–
114	–	–
115	–	–
116	–	–
117	–	–
118	–	–
119	–	–
120	–	–

Connector No.	M133
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA CODING C
Connector Color	PINK

H.S.

170 169

Terminal No.	Color of Wire	Signal Name
169	B	SAT ANT
170	SHIELD	SAT SHIELD

Connector No.	M134
Connector Name	TCU
Connector Type	GT17HN-16DP-2H
Connector Color	GRAY

H.S.

48	47	46	45	44	43	42	41
56	55	54	53	52	51	50	49

57

Terminal No.	Color of Wire	Signal Name
41	W	U-VOICE
42	L	VOICE GND
43	–	–
44	–	–
45	–	–
46	B	MANUFACTURE SPECIFIC
47	B	USB VBUS
48	B	USB D-
49	B	D-VOICE
50	–	–
51	–	–
52	–	–
53	–	–
54	–	–
55	SHIELD	USB GND
56	L/W	D+
57	SHIELD	CONN CHASSIS GND

Connector No.	M135
Connector Name	TCU
Connector Type	GT16C-1S-HU
Connector Color	GRAY

H.S.

59 58

Terminal No.	Color of Wire	Signal Name
58	B	TEL ANT
59	SHIELD	TEL SHIELD

Connector No.	M136
Connector Name	AV CONTROL UNIT (WITH TELEMATICS SYSTEM)
Connector Type	GT17HN-16DP-2H
Connector Color	GRAY

H.S.

152	151	150	149	148	147	146	145
160	159	158	157	156	155	154	153

161

Terminal No.	Color of Wire	Signal Name
145	B	USB D-
146	B	USB VBUS
147	B	MANUFACTURE SPECIFIC
148	–	–
149	–	–
150	–	–
151	L	VOICE GND
152	W	U-VOICE
153	L/W	D+
154	SHIELD	USB GND
155	–	–
156	–	–
157	–	–
158	–	–
159	–	–
160	B	D-VOICE
161	SHIELD	CONN CHASSIS GND

Connector No.	M138
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU (B)
Connector Color	GREEN

H.S.

1 2

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	M140
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT17H-4DP-2H
Connector Color	BROWN

H.S.

163 162
165 164
166

Terminal No.	Color of Wire	Signal Name
162	–	–
163	–	–
164	W	GVIF-
165	R	GVIF+
166	SHIELD	SHIELD

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

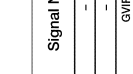
Connector No.	M141
Connector Name	DISPLAY UNIT
Connector Type	GT17H-4DP-2H
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
25	–	–
26	–	–
27	W	GVIF-
28	R	GVIF+
29	SHIELD	SHIELD

Connector No.	M143
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU
Connector Color	GRAY

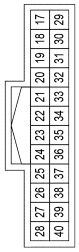
H.S.



Terminal No.	Color of Wire	Signal Name
171	B	ANT +B
172	B	ANT MAIN
173	SHIELD	SHIELD
174	B	ANT SUB
175	SHIELD	SHIELD

Connector No.	M148
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH24FW-NH
Connector Color	WHITE

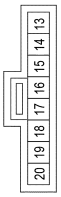
H.S.



Terminal No.	Color of Wire	Signal Name
17	–	–
18	–	–
19	G/W	AIRBAG CUTOFF
20	BR	ILL
21	W/L	ENCD-B 2
22	G	ENCD-PUSH 1
23	L	ENCD-B 1
24	Y	KEY-SCAN IN 2
25	R	KEY-SCAN IN 0
26	W/V	KEY-SCAN OUT 1
27	W/B	KEY-SCAN OUT 3
28	P	CD (DVD) EJECT
29	–	–
30	–	–
31	V	ILL CONT
32	G	ENCD-A 2
33	L/R	ENCD-PUSH 2
34	GR	ENCD-A 1
35	W/R	KEY-SCAN IN 3
36	O	KEY-SCAN IN 1
37	G	KEY-SCAN OUT 0
38	L	KEY-SCAN OUT 2
39	SB	KEY-SCAN OUT 4
40	B	GND

Connector No.	M149
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY
Connector Color	GRAY

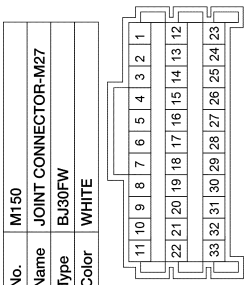
H.S.



Terminal No.	Color of Wire	Signal Name
13	R	ASCD
14	B	AUDIO STRG SW REMOTE A
15	GR	AUDIO STRG SW REMOTE B
16	L	ASCDG
17	BR	AUDIO STRG SW GND
18	G	HORN SWITCH
19	Y	ILL CONT
20	W	ILL

Connector No.	M150
Connector Name	JOINT CONNECTOR-M27
Connector Type	BJ30FW
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	B	GROUND
5	B	GROUND
6	B	GROUND
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–

15	W	SENSOR POWER
16	W	SENSOR POWER
17	W	SENSOR POWER
18	–	–
19	–	–
20	–	–
21	SHIELD	GROUND
22	SHIELD	GROUND
23	GR	GROUND
24	SHIELD	GROUND
25	SHIELD	GROUND
26	SHIELD	GROUND
27	SHIELD	GROUND
28	SHIELD	GROUND
29	SHIELD	GROUND
30	SHIELD	GROUND
31	GR	GROUND
32	B	GROUND
33	B	GROUND

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M155
Connector Name	PRESET SWITCH
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	G/W	AIRBAG CUTOFF
4	BR	ILL
5	W/L	ENCD-B 2
6	G	ENCD-PUSH 1
7	L	ENCD-B 1
8	Y	KEY-SCAN IN 2
9	R	KEY-SCAN IN 0
10	W/V	KEY-SCAN OUT 1
11	W/B	KEY-SCAN OUT 3
12	P	CD (DVD) EJECT
13	–	–
14	–	–
15	V	ILL CONT
16	G	ENCD-A 2
17	L/R	ENCD-PUSH 2
18	GR	ENCD-A 1
19	W/R	KEY-SCAN IN 3
20	O	KEY-SCAN IN 1
21	G	KEY-SCAN OUT 0
22	L	KEY-SCAN OUT 2
23	SB	KEY-SCAN OUT 4
24	B	GND

Connector No.	M158
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS
Connector Color	WHITE

H.S.

1	2	3	4
5	6	7	8	9	10
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Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT DOOR RH HARNESS
2	B	TO FRONT DOOR RH HARNESS
3	SHIELD	TO FRONT DOOR RH HARNESS
4	BR	TO FRONT DOOR RH HARNESS
5	Y	TO FRONT DOOR RH HARNESS
6	L	TO FRONT DOOR RH HARNESS
7	LG	TO FRONT DOOR RH HARNESS
8	GR	TO FRONT DOOR RH HARNESS
9	BR	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
9	G	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
10	Y	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
10	W	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

Connector No.	M167
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16
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Terminal No.	Color of Wire	Signal Name
1	B	TO FRONT DOOR LH HARNESS
2	V	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	V	TO FRONT DOOR LH HARNESS
5	SB	TO FRONT DOOR LH HARNESS
6	BR	TO FRONT DOOR LH HARNESS
7	Y	TO FRONT DOOR LH HARNESS
8	W	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)

8	V	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
9	P	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
9	G	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
9	SB	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
10	L	TO FRONT DOOR LH HARNESS
11	BR	TO FRONT DOOR LH HARNESS
12	Y	TO FRONT DOOR LH HARNESS
13	LG	TO FRONT DOOR LH HARNESS
14	SHIELD	TO FRONT DOOR LH HARNESS
15	B	TO FRONT DOOR LH HARNESS
16	W	TO FRONT DOOR LH HARNESS

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO FRONT DOOR LH HARNESS
2	R	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	P	TO FRONT DOOR LH HARNESS
5	V	TO FRONT DOOR LH HARNESS
6	R	TO FRONT DOOR LH HARNESS
7	G	TO FRONT DOOR LH HARNESS
8	P	TO FRONT DOOR LH HARNESS
9	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
9	R	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
10	R	TO FRONT DOOR LH HARNESS
11	G	TO FRONT DOOR LH HARNESS
12	P	TO FRONT DOOR LH HARNESS
13	P	TO FRONT DOOR LH HARNESS
14	BG	TO FRONT DOOR LH HARNESS
15	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	G	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)

16	G	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
17	G	TO FRONT DOOR LH HARNESS
18	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	BG	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	W	TO FRONT DOOR LH HARNESS
20	SB	TO FRONT DOOR LH HARNESS
21	P	TO FRONT DOOR LH HARNESS
22	W	TO FRONT DOOR LH HARNESS
23	G	TO FRONT DOOR LH HARNESS
24	SB	TO FRONT DOOR LH HARNESS
25	R	TO FRONT DOOR LH HARNESS
26	B	TO FRONT DOOR LH HARNESS
27	–	TO FRONT DOOR LH HARNESS
28	B	TO FRONT DOOR LH HARNESS
29	SHIELD	TO FRONT DOOR LH HARNESS
30	R	TO FRONT DOOR LH HARNESS
31	G	TO FRONT DOOR LH HARNESS
32	W	TO FRONT DOOR LH HARNESS
33	BG	TO FRONT DOOR LH HARNESS
34	Y	TO FRONT DOOR LH HARNESS
35	R	TO FRONT DOOR LH HARNESS
36	BG	TO FRONT DOOR LH HARNESS
37	W	TO FRONT DOOR LH HARNESS
38	P	TO FRONT DOOR LH HARNESS
39	W	TO FRONT DOOR LH HARNESS
40	P	TO FRONT DOOR LH HARNESS

ABNIA9112GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M170
Connector Name	JOINT CONNECTOR-M09
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SHIELD	SHIELD
2	Y	SHIELD
3	SHIELD	SHIELD
4	–	–
5	–	–
6	GR	SHIELD
7	SHIELD	SHIELD
8	SHIELD	SHIELD
9	SHIELD	SHIELD
10	SHIELD	SHIELD
11	–	–
12	G	SENS GND
13	–	–
14	G	SENS GND
15	G	SENS GND
16	G	SENS GND
17	G	SENS GND
18	Y	SENS GND
19	Y	SENS GND
20	Y	SENS GND
21	Y	SENS GND
22	Y	SENS GND
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	W	PW LIN
29	W	PW LIN
30	W	PW LIN
31	–	–
32	W	PW LIN
33	W	PW LIN

Connector No.	M171
Connector Name	JOINT CONNECTOR-M10
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	P	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
2	SB	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
3	P	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
3	SB	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
4	P	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
4	SB	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M172
Connector Name	JOINT CONNECTOR-M11
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
2	V	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
3	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
3	V	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
4	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
4	V	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M173
Connector Name	JOINT CONNECTOR-M12
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	G	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
2	BR	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
3	G	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
3	BR	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
4	G	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
4	BR	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M174
Connector Name	JOINT CONNECTOR-M13
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
2	Y	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
3	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
3	Y	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
4	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
4	Y	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M175
Connector Name	JOINT CONNECTOR-M22
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	BATTERY
2	Y	BATTERY
3	Y	BATTERY
4	Y	BATTERY
5	Y	BATTERY
6	Y	BATTERY
7	Y	BATTERY
8	Y	BATTERY
9	Y	BATTERY
10	–	–
11	Y	BATTERY
12	R	BATTERY
13	R	BATTERY
14	R	BATTERY
15	B	ILLUMI CONT OUT
16	B	ILLUMI CONT OUT
17	B	ILLUMI CONT OUT
18	–	–
19	L	DOOR LOCK DR/AS/FL
20	L	DOOR LOCK DR/AS/FL
21	L	DOOR LOCK DR/AS/FL
22	L	DOOR LOCK DR/AS/FL
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	–	–
29	P	ACCESSORY
30	P	ACCESSORY
31	P	ACCESSORY
32	P	ACCESSORY
33	–	–

ABNIA9113GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M176
Connector Name	JOINT CONNECTOR-M56
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	M CAN-H
2	SB	M CAN-H
3	SB	M CAN-H
4	SB	M CAN-H

Connector No.	M177
Connector Name	JOINT CONNECTOR-M57
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	M CAN-L
2	LG	M CAN-L
3	LG	M CAN-L
4	LG	M CAN-L

Connector No.	M178
Connector Name	JOINT CONNECTOR-M58
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	M CAN-H
2	B	M CAN-H
3	SB	M CAN-H
4	–	–

Connector No.	M179
Connector Name	JOINT CONNECTOR-M59
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	M CAN-L
2	W	M CAN-L
3	LG	M CAN-L
4	–	–

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO CONSOLE SWITCH SUB HARNESS
2	Y	TO CONSOLE SWITCH SUB HARNESS
3	V	TO CONSOLE SWITCH SUB HARNESS
4	–	TO CONSOLE SWITCH SUB HARNESS
5	SHIELD	TO CONSOLE SWITCH SUB HARNESS
6	W	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	BG	TO CONSOLE SWITCH SUB HARNESS
9	B	TO CONSOLE SWITCH SUB HARNESS
10	B	TO CONSOLE SWITCH SUB HARNESS
11	R	TO CONSOLE SWITCH SUB HARNESS
12	BR	TO CONSOLE SWITCH SUB HARNESS
13	LG	TO CONSOLE SWITCH SUB HARNESS
14	L	TO CONSOLE SWITCH SUB HARNESS
15	LG	TO CONSOLE SWITCH SUB HARNESS
16	Y	TO CONSOLE SWITCH SUB HARNESS

ABNIA9114GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M202
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	W	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	SB	TO CONSOLE SWITCH SUB HARNESS
10	W	TO CONSOLE SWITCH SUB HARNESS
11	B	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	B	TO CONSOLE SWITCH SUB HARNESS
14	LG	TO CONSOLE SWITCH SUB HARNESS
15	W	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	B	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	B	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	R	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	L	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M205
Connector Name	FRONT AUXILIARY INPUT JACKS
Connector Type	A08FW
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
1	W	AUX AUDIO RH+
2	B	AUX GND
3	R	AUX AUDIO LH+
4	–	–
5	–	–
6	–	–
7	W	COMP1 IN +
8	B	COMP1 IN -

Connector No.	M208
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SWITCH SUB HARNESS
2	SHIELD	TO CONSOLE SWITCH SUB HARNESS
3	B	TO CONSOLE SWITCH SUB HARNESS
4	W	TO CONSOLE SWITCH SUB HARNESS
5	SB	TO CONSOLE SWITCH SUB HARNESS
6	G	TO CONSOLE SWITCH SUB HARNESS
7	R	TO CONSOLE SWITCH SUB HARNESS
8	SHIELD	TO CONSOLE SWITCH SUB HARNESS
9	W	TO CONSOLE SWITCH SUB HARNESS
10	B	TO CONSOLE SWITCH SUB HARNESS
11	V	TO CONSOLE SWITCH SUB HARNESS
12	G	TO CONSOLE SWITCH SUB HARNESS
13	R	TO CONSOLE SWITCH SUB HARNESS
14	SHIELD	TO CONSOLE SWITCH SUB HARNESS
15	W	TO CONSOLE SWITCH SUB HARNESS
16	B	TO CONSOLE SWITCH SUB HARNESS
17	SHIELD	TO CONSOLE SWITCH SUB HARNESS
18	B	TO CONSOLE SWITCH SUB HARNESS
19	R	TO CONSOLE SWITCH SUB HARNESS
20	W	TO CONSOLE SWITCH SUB HARNESS
21	L	TO CONSOLE SWITCH SUB HARNESS
22	G	TO CONSOLE SWITCH SUB HARNESS
23	R	TO CONSOLE SWITCH SUB HARNESS
24	SHIELD	TO CONSOLE SWITCH SUB HARNESS
25	W	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	L	TO CONSOLE SWITCH SUB HARNESS
28	G	TO CONSOLE SWITCH SUB HARNESS
29	R	TO CONSOLE SWITCH SUB HARNESS
30	SHIELD	TO CONSOLE SWITCH SUB HARNESS
31	W	TO CONSOLE SWITCH SUB HARNESS
32	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M209
Connector Name	USB INTERFACE
Connector Type	HAA04FG
Connector Color	GREEN

H.S.

2	1
4	3
5	

Terminal No.	Color of Wire	Signal Name
1	B	USB GND
2	R	V-BUS
3	W	USB D-
4	G	USB D+
5	SHIELD	SHIELD

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M210
Connector Name	WIRE TO WIRE
Connector Type	GT17VS-6DP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	W	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	G	TO MAIN HARNESS
7	–	TO MAIN HARNESS

Connector No.	M214
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	V	TO MAIN HARNESS
5	Y	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS
10	–	TO MAIN HARNESS
11	–	TO MAIN HARNESS
12	–	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	R	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	SHIELD	TO MAIN HARNESS

Connector No.	M215
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	W	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	V	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	R	TO MAIN HARNESS
10	SHIELD	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	L	TO MAIN HARNESS
14	G	TO MAIN HARNESS
15	R	TO MAIN HARNESS
16	SHIELD	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	B	TO MAIN HARNESS
19	L	TO MAIN HARNESS
20	G	TO MAIN HARNESS
21	R	TO MAIN HARNESS
22	SHIELD	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	B	TO MAIN HARNESS

16	SHIELD	TO MAIN HARNESS

Connector No.	M216
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	R	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	B	TO MAIN HARNESS
8	BG	TO MAIN HARNESS
9	B	TO MAIN HARNESS
10	–	TO MAIN HARNESS
11	–	TO MAIN HARNESS
12	BR	TO MAIN HARNESS
13	LG	TO MAIN HARNESS
14	L	TO MAIN HARNESS
15	LG	TO MAIN HARNESS
16	Y	TO MAIN HARNESS

Connector No.	M217
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	BG	TO MAIN HARNESS
3	Y	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	P	TO MAIN HARNESS
7	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	W	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	L	TO MAIN HARNESS
9	G	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
9	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
10	V	TO MAIN HARNESS
11	P	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	SHIELD	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	W	TO MAIN HARNESS
16	R	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	L	TO MAIN HARNESS
19	G	TO MAIN HARNESS
20	Y	TO MAIN HARNESS
21	B	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	R	TO MAIN HARNESS
24	B	TO MAIN HARNESS
25	G	TO MAIN HARNESS
26	W	TO MAIN HARNESS
27	LG	TO MAIN HARNESS
28	B	TO MAIN HARNESS
29	BR	TO MAIN HARNESS
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	W	TO MAIN HARNESS

Connector No.	M230
Connector Name	JOINT CONNECTOR-M01
Connector Type	A06FGY
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	B	GND
3	SHIELD	GND
4	SHIELD	GND
5	–	–
6	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M231
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	SB	TO CONSOLE SWITCH SUB HARNESS
10	G	TO CONSOLE SWITCH SUB HARNESS
11	R	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	W	TO CONSOLE SWITCH SUB HARNESS
14	B	TO CONSOLE SWITCH SUB HARNESS
15	V	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	SHIELD	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	–	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	R	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	L	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M251
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO CONSOLE SUB HARNESS
2	Y	TO CONSOLE SUB HARNESS
3	V	TO CONSOLE SUB HARNESS
4	G	TO CONSOLE SUB HARNESS
5	SHIELD	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	BG	TO CONSOLE SUB HARNESS
9	B	TO CONSOLE SUB HARNESS
10	B	TO CONSOLE SUB HARNESS
11	R	TO CONSOLE SUB HARNESS
12	P	TO CONSOLE SUB HARNESS
13	BR	TO CONSOLE SUB HARNESS
14	SB	TO CONSOLE SUB HARNESS
15	LG	TO CONSOLE SUB HARNESS
16	Y	TO CONSOLE SUB HARNESS

Connector No.	M254
Connector Name	REAR AUXILIARY INPUT JACKS
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	VTR VIDEO+ OUT
2	B	VTR VIDEO- OUT
3	B	VTR AUDIO GND
4	R	VTR AUDIO L+ OUT
5	W	VTR AUDIO R+ OUT
6	–	–
7	–	–
8	–	–
9	SHIELD	AUDIO SHIELD IN1
10	–	–
11	R	RR AUDIO R+ IN1
12	–	–
13	G	RR AUDIO R- IN1
14	B	RR AUDIO L+ IN1
15	V	AV GND IN (A GND)
16	W	RR AUDIO L- IN1
17	R	RR AUDIO R+ IN2
18	BG	AV GND IN2 (A GND)
19	G	RR AUDIO R- IN2
20	R	RR AUDIO L+ IN2
21	SHIELD	AUDIO SHIELD IN2
22	W	RR AUDIO L- IN2
23	SHIELD	AUDIO SHIELD OUT2
24	W	RR AUDIO L- OUT1
25	G	RR AUDIO R- OUT2
26	B	RR AUDIO L+ OUT2
27	R	RR AUDIO R+ OUT2
28	L	AV GND OUT2 (A GND)
29	P	AV GND OUT1 (A GND)
30	W	RR AUDIO L- OUT1
31	G	RR AUDIO R- OUT1
32	B	RR AUDIO L+ OUT1
33	R	RR AUDIO R+ OUT1
34	–	–
35	SHIELD	AUDIO SHIELD OUT1
36	–	–
37	–	–
38	V	ACC
39	B	GND (POWER)
40	Y	BAT

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M257
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SUB HARNESS
2	LG	TO CONSOLE SUB HARNESS
3	W	TO CONSOLE SUB HARNESS
4	G	TO CONSOLE SUB HARNESS
5	–	TO CONSOLE SUB HARNESS
6	SHIELD	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	W	TO CONSOLE SUB HARNESS
9	BG	TO CONSOLE SUB HARNESS
10	W	TO CONSOLE SUB HARNESS
11	B	TO CONSOLE SUB HARNESS
12	SHIELD	TO CONSOLE SUB HARNESS
13	B	TO CONSOLE SUB HARNESS
14	LG	TO CONSOLE SUB HARNESS
15	W	TO CONSOLE SUB HARNESS
16	G	TO CONSOLE SUB HARNESS
17	R	TO CONSOLE SUB HARNESS
18	B	TO CONSOLE SUB HARNESS
19	W	TO CONSOLE SUB HARNESS
20	B	TO CONSOLE SUB HARNESS
21	B	TO CONSOLE SUB HARNESS
22	R	TO CONSOLE SUB HARNESS
23	B	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS
25	SHIELD	TO CONSOLE SUB HARNESS
26	R	TO CONSOLE SUB HARNESS
27	B	TO CONSOLE SUB HARNESS
28	W	TO CONSOLE SUB HARNESS
29	L	TO CONSOLE SUB HARNESS
30	G	TO CONSOLE SUB HARNESS
31	R	TO CONSOLE SUB HARNESS
32	SHIELD	TO CONSOLE SUB HARNESS
33	W	TO CONSOLE SUB HARNESS
34	B	TO CONSOLE SUB HARNESS
35	P	TO CONSOLE SUB HARNESS
36	G	TO CONSOLE SUB HARNESS
37	R	TO CONSOLE SUB HARNESS
38	SHIELD	TO CONSOLE SUB HARNESS
39	W	TO CONSOLE SUB HARNESS
40	B	TO CONSOLE SUB HARNESS

Connector No.	M259
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SUB HARNESS
2	SHIELD	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	W	TO CONSOLE SUB HARNESS
5	BG	TO CONSOLE SUB HARNESS
6	G	TO CONSOLE SUB HARNESS
7	R	TO CONSOLE SUB HARNESS
8	SHIELD	TO CONSOLE SUB HARNESS
9	W	TO CONSOLE SUB HARNESS
10	B	TO CONSOLE SUB HARNESS
11	V	TO CONSOLE SUB HARNESS
12	G	TO CONSOLE SUB HARNESS
13	R	TO CONSOLE SUB HARNESS
14	SHIELD	TO CONSOLE SUB HARNESS
15	W	TO CONSOLE SUB HARNESS
16	B	TO CONSOLE SUB HARNESS
17	SHIELD	TO CONSOLE SUB HARNESS
18	R	TO CONSOLE SUB HARNESS
19	B	TO CONSOLE SUB HARNESS
20	W	TO CONSOLE SUB HARNESS
21	L	TO CONSOLE SUB HARNESS
22	G	TO CONSOLE SUB HARNESS
23	R	TO CONSOLE SUB HARNESS
24	SHIELD	TO CONSOLE SUB HARNESS
25	W	TO CONSOLE SUB HARNESS
26	B	TO CONSOLE SUB HARNESS
27	P	TO CONSOLE SUB HARNESS
28	G	TO CONSOLE SUB HARNESS
29	R	TO CONSOLE SUB HARNESS
30	SHIELD	TO CONSOLE SUB HARNESS
31	W	TO CONSOLE SUB HARNESS
32	B	TO CONSOLE SUB HARNESS

Connector No.	M269
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

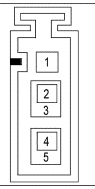
H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	BG	TO CONSOLE SWITCH SUB HARNESS
10	G	TO CONSOLE SWITCH SUB HARNESS
11	R	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	W	TO CONSOLE SWITCH SUB HARNESS
14	B	TO CONSOLE SWITCH SUB HARNESS
15	V	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	SHIELD	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	–	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	R	TO CONSOLE SWITCH SUB HARNESS
27	B	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	P	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M500
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1 PP-HU
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M501
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU (B)
Connector Color	GREEN

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	SAT ANT
5	SHIELD	SAT SHIELD

Connector No.	M502
Connector Name	ANTENNA BASE
Connector Type	GT17VSN-6DP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT +B
2	B	ANT MAIN
3	SHIELD	SHIELD

Connector No.	M503
Connector Name	WIRE TO WIRE
Connector Type	GT13S-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	M504
Connector Name	WIRE TO WIRE
Connector Type	GT13S-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	M505
Connector Name	GLASS ANTENNA (FM SUB)
Connector Type	P01FB-A
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT SUB

Connector No.	M509
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU (B)
Connector Color	GREEN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	W	TO MAIN HARNESS
4	Y/R	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	Y	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	W	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	P/G	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	SHIELD	TO MAIN HARNESS
16	P	TO MAIN HARNESS
17	BG	TO MAIN HARNESS
18	–	TO MAIN HARNESS
19	V	TO MAIN HARNESS
20	W	TO MAIN HARNESS
21	SB	TO MAIN HARNESS
22	L	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	B	TO MAIN HARNESS

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	TO ROOM LAMP HARNESS
2	B	TO ROOM LAMP HARNESS
3	BG	TO ROOM LAMP HARNESS
4	P	TO ROOM LAMP HARNESS
5	SHIELD	TO ROOM LAMP HARNESS
6	B	TO ROOM LAMP HARNESS
7	W	TO ROOM LAMP HARNESS
8	B	TO ROOM LAMP HARNESS
9	B	TO ROOM LAMP HARNESS
10	W	TO ROOM LAMP HARNESS
11	R	TO ROOM LAMP HARNESS
12	G	TO ROOM LAMP HARNESS
13	–	TO ROOM LAMP HARNESS
14	–	TO ROOM LAMP HARNESS
15	L	TO ROOM LAMP HARNESS
16	SB	TO ROOM LAMP HARNESS
17	–	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	–	TO ROOM LAMP HARNESS
20	–	TO ROOM LAMP HARNESS
21	SB	TO ROOM LAMP HARNESS
22	L	TO ROOM LAMP HARNESS
23	BR	TO ROOM LAMP HARNESS
24	V	TO ROOM LAMP HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	R101
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	V	TO ROOM LAMP HARNESS
2	R	TO ROOM LAMP HARNESS
3	G	TO ROOM LAMP HARNESS
4	P	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	L	TO ROOM LAMP HARNESS
7	R	TO ROOM LAMP HARNESS
8	B	TO ROOM LAMP HARNESS
9	B	TO ROOM LAMP HARNESS
10	W	TO ROOM LAMP HARNESS
11	R	TO ROOM LAMP HARNESS
12	G	TO ROOM LAMP HARNESS
13	–	TO ROOM LAMP HARNESS
14	–	TO ROOM LAMP HARNESS
15	L	TO ROOM LAMP HARNESS
16	SB	TO ROOM LAMP HARNESS
17	–	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	–	TO ROOM LAMP HARNESS
20	–	TO ROOM LAMP HARNESS
21	–	TO ROOM LAMP HARNESS
22	–	TO ROOM LAMP HARNESS
23	BR	TO ROOM LAMP HARNESS
24	L	TO ROOM LAMP HARNESS

Connector No.	R105
Connector Name	TELEMATICS SWITCH
Connector Type	TH08FW-NH
Connector Color	WHITE

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	V	ACC
2	G	LED A
3	P	ECALL SW
4	–	–
5	W	ILL
6	B	ILL CONT
7	R	GROUND
8	–	–

Connector No.	R109
Connector Name	MICROPHONE
Connector Type	TK04FW
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	R	MIC VCC
2	–	–
3	GR	MIC GND
4	L	MIC SIG

ABNIA9120GB

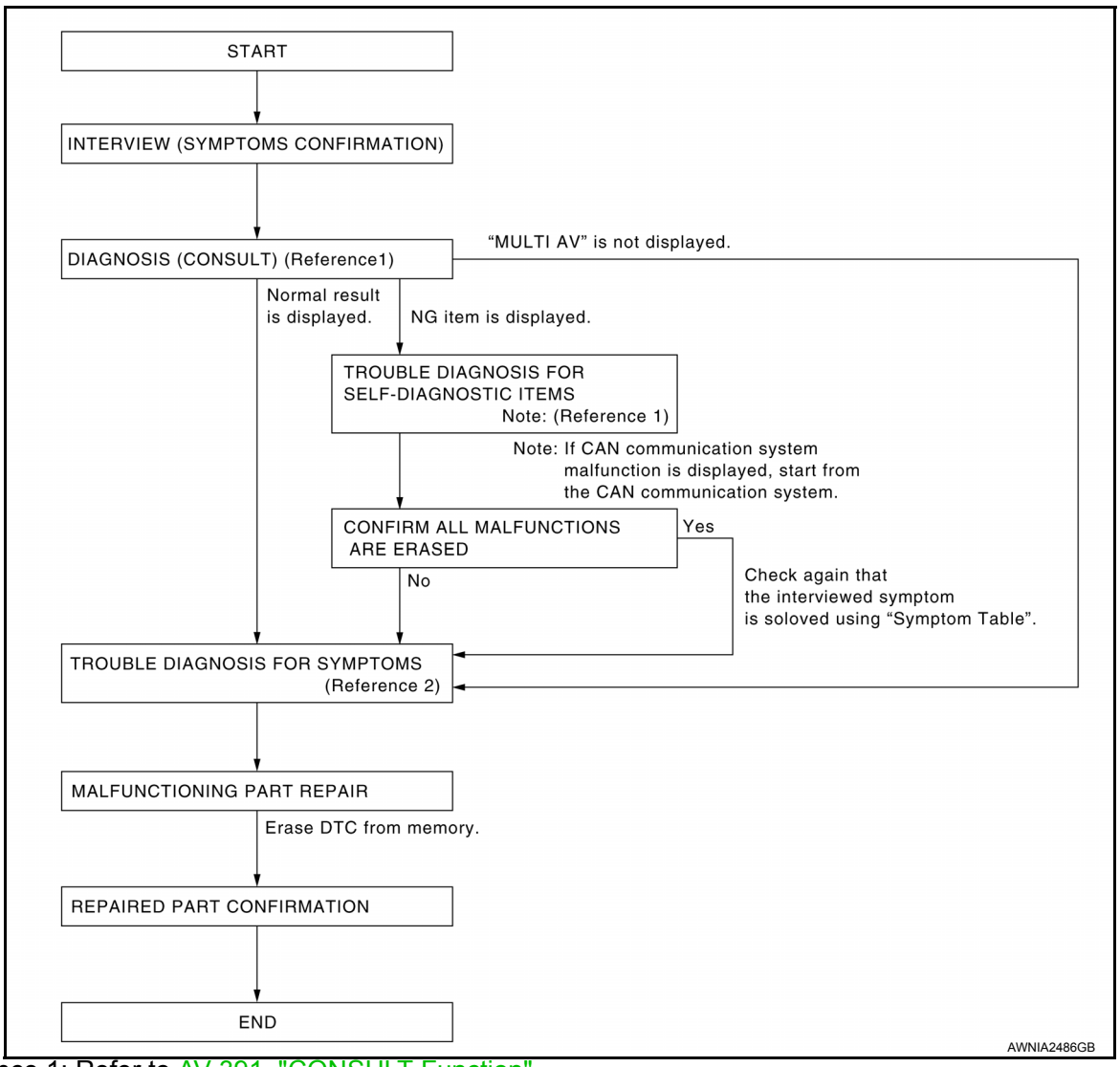
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow (Multi AV System)

INFOID:0000000012849616

OVERALL SEQUENCE



Reference 1: Refer to AV-391, "CONSULT Function".
Reference 2: Refer to AV-601, "Symptom Table".

DETAILED FLOW

1.CHECK SYMPTOM

Check the malfunction symptoms by performing the following items.
- Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred).
- Check the symptom.

>> GO TO 2

2.SELF-DIAGNOSIS (CONSULT)

1. Connect CONSULT and perform "SELF-DIAGNOSIS" for "MULTI AV".
   NOTE:
   Skip to step 4 of the diagnosis procedure if "MULTI AV" is not displayed.
2. Check if any DTC No. is displayed in the self-diagnosis results.

Is any DTC No. displayed?

YES >> GO TO 3
NO >> GO TO 4

3.CHECK SELF-DIAGNOSIS RESULTS (CONSULT)

1. Check the DTC No. indicated in the self-diagnosis results.
2. Perform the relevant diagnosis referring to the DTC No. list. Refer to AV-405, "DTC Index".

NOTE:
Start with the diagnosis for the CAN communication system if “CAN COMM CIRCUIT [U1000] or CONTROL UNIT (CAN) [U1010]” is displayed.

>> GO TO 5

4.PERFORM DIAGNOSIS BY SYMPTOM

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to AV-601, "Symptom Table".

>> GO TO 5

5.REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace the identified malfunctioning parts.

NOTE:
Erase the stored self-diagnosis results after repairing or replacing the relevant components if any DTC No. has been indicated in the self-diagnosis results.

>> GO TO 6

6.CHECK AFTER REPAIR

1. Perform self-diagnosis for “MULTI AV” with CONSULT after repairing or replacing the malfunctioning parts.
2. Check if any DTC No. is displayed in the self-diagnosis results.

Is any DTC No. displayed?

YES >> GO TO 3
NO >> GO TO 7

7.FINAL CHECK

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

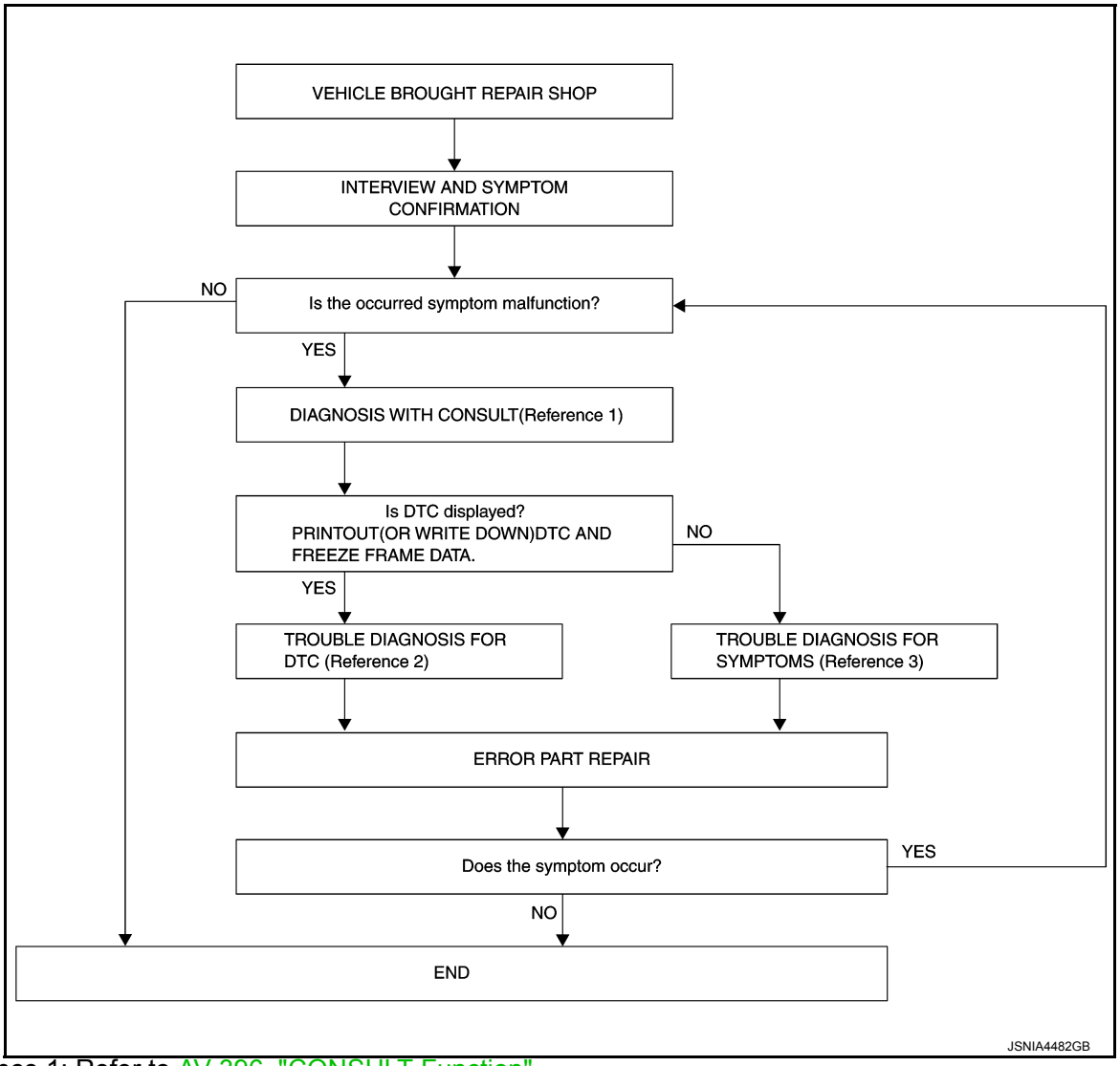
Are any symptoms present?

YES >> GO TO 4
NO >> Inspection End.

Work Flow (Camera Assistance Sonar)

INFOID:0000000012849617

OVERALL SEQUENCE



Reference 1: Refer to AV-396, "CONSULT Function".
Reference 2: Refer to AV-428, "DTC Index".
Reference 3: Refer to AV-601, "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

1. Connect CONSULT and perform a self-diagnosis for “SONAR”. Refer to AV-396, "CONSULT Function".
   NOTE:
   Skip to step 4 of the diagnosis procedure if “SONAR” is not displayed.
2. When DTC is detected, follow the instructions below:

- Record DTC and Freeze Frame Data.

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-428, "DTC Index".

>> GO TO 5.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to AV-601, "Symptom Table".

>> GO TO 5.

5. ERROR PART REPAIR

1. Repair or replace the identified malfunctioning parts.
2. Perform a self-diagnosis for “SONAR” with CONSULT.
   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

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description

INFOID:0000000012849618

BEFORE REPLACEMENT

When replacing AV control unit, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:

If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing AV control unit.

AFTER REPLACEMENT

CAUTION:

When replacing AV control unit, you must perform “After Replace ECU” with CONSULT.

- **Complete the procedure of “After Replace ECU” in order.**
- **If you set incorrect “After Replace ECU”, incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Work Procedure

INFOID:0000000012849619

1. SAVING VEHICLE SPECIFICATION

-CONSULT

Enter “Re/Programming, Configuration” and perform “Before Replace ECU” to save or print current vehicle specification.

NOTE:

If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing AV control unit.

>> GO TO 2.

2. REPLACE AV CONTROL UNIT

Replace AV control unit. Refer to AV-618, "Removal and Installation".

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

CONSULT

1. Enter "Re/Programming, Configuration".
2. If “Before Replace ECU” operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press “Confirm” to write vehicle specification. Refer to AV-478, "CONFIGURATION (AV CONTROL UNIT) : Work Procedure".
3. If “Before Replace ECU” operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to AV-478, "CONFIGURATION (AV CONTROL UNIT) : Work Procedure".

>> GO TO 4.

4. OPERATION CHECK

Check that the operation of the AV control unit is normal.

>> Work End.

CONFIGURATION (AV CONTROL UNIT)

CONFIGURATION (AV CONTROL UNIT) : Description

INFOID:0000000012849620

Vehicle specification needs to be written with CONSULT because it is not written after replacing AV control unit.
Configuration has three functions as follows:

Function	Description
"Before Replace ECU"	• Reads the vehicle configuration of current AV control unit. • Saves the read vehicle configuration.
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

CAUTION:
- **When replacing AV control unit, you must perform “Select Saved Data List” or "After Replace ECU" with CONSULT.**
- **Complete the procedure of “Select Saved Data List” or "After Replace ECU" in order.**
- **If you set incorrect “Select Saved Data List” or "After Replace ECU", incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**
- **Never perform “Select Saved Data List” or "After Replace ECU" except for new AV control unit.**

CONFIGURATION (AV CONTROL UNIT) : Work Procedure

INFOID:0000000012849621

1.WRITING MODE SELECTION

CONSULT
Select “Reprogramming, Configuration” of AV control unit.

When writing saved data>>GO TO 2.
When writing manually>>GO TO 3.

2.PERFORM “SAVED DATA LIST”

CONSULT
Automatically “Operation Log Selection” window will display if “Before Replace ECU” was performed. Select applicable file from the “Save Data List” and press “Confirm”.

>> Work End.

3.PERFORM “AFTER REPLACE ECU” OR “MANUAL CONFIGURATION”

CONSULT
1. Select “After Replace ECU” or “Manual Configuration”.
2. Identify the correct model and configuration list. Refer to AV-479, "CONFIGURATION (AV CONTROL UNIT) : Configuration List".
3. Confirm and/or change setting value for each item.
   CAUTION:
   Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.
4. Select “Next”.
   CAUTION:
   Make sure to select “Next”, confirm each setting value and press “OK” even if the indicated configuration of brand new AV control unit is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model can not be memorized.
5. When "Completed", select "End".

>> GO TO 4.

4.OPERATION CHECK

Confirm that each function controlled by AV control unit operates normally.

>> Work End.

CONFIGURATION (AV CONTROL UNIT) : Configuration List

INFOID:0000000012849622

CAUTION:
Thoroughly read and understand the vehicle specification. Incorrect settings may result in abnormal control of ECU.

SETTING ITEM		NOTE
Items	Setting Value	
SOUND SYSTEM	BASE ⇔ BOSE	BASE: Without BOSE audio BOSE: With BOSE audio
CAMERA SYSTEM	NONE/AVM ⇔ REAR CAMERA	NONE/AVM: With no camera system or with around view monitor REAR CAMERA: With rear view camera

⇔: Items which confirm vehicle specifications

ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT : Description

INFOID:0000000012849623

BEFORE REPLACEMENT

When replacing around view monitor control unit, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:
If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing around view monitor control unit.

AFTER REPLACEMENT

CAUTION:
When replacing around view monitor control unit, you must perform “After Replace ECU” with CONSULT.
- **Complete the procedure of “After Replace ECU” in order.**
- **If you set incorrect “After Replace ECU”, incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**

ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT : Work Procedure

INFOID:0000000012849624

1.SAVING VEHICLE SPECIFICATION

-CONSULT
Enter “Re/Programming, Configuration” and perform “Before Replace ECU” to save or print current vehicle specification.

NOTE:
If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing around view monitor control unit.

>> GO TO 2.

2.REPLACE AROUND VIEW MONITOR CONTROL UNIT

Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".

>> GO TO 3.

3.WRITING VEHICLE SPECIFICATION

CONSULT
1. Enter "Re/Programming, Configuration".

2. If “Before Replace ECU” operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press “Confirm” to write vehicle specification. Refer to AV-480, "CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Work Procedure".
3. If “Before Replace ECU” operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to AV-480, "CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Work Procedure".

>> GO TO 4.

4. OPERATION CHECK

Check that the operation of the around view monitor control unit and camera images (fixed guide lines and predictive course lines) are normal.

>> Work End.

CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT)

CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Description

INFOID:0000000012849625

Vehicle specification needs to be written with CONSULT because it is not written after replacing around view monitor control unit.
Configuration has three functions as follows:

Function	Description
"Before Replace ECU"	• Reads the vehicle configuration of current around view monitor control unit. • Saves the read vehicle configuration.
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

CAUTION:

- **When replacing around view monitor control unit, you must perform “Select Saved Data List” or "After Replace ECU" with CONSULT.**
- **Complete the procedure of “Select Saved Data List” or "After Replace ECU" in order.**
- **If you set incorrect “Select Saved Data List” or "After Replace ECU", incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**
- **Never perform “Select Saved Data List” or "After Replace ECU" except for new around view monitor control unit.**

CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Work Procedure

INFOID:0000000012849626

1. WRITING MODE SELECTION

CONSULT
Select “Reprogramming, Configuration” of around view monitor control unit.

When writing saved data>>GO TO 2.
When writing manually>>GO TO 3.

2. PERFORM “SAVED DATA LIST”

CONSULT
Automatically “Operation Log Selection” window will display if “Before Replace ECU” was performed. Select applicable file from the “Save Data List” and press “Confirm”.

>> Work End.

3. PERFORM “AFTER REPLACE ECU” OR “MANUAL CONFIGURATION”

CONSULT
1. Select “After Replace ECU” or “Manual Configuration”.
2. Identify the correct model and configuration list. Refer to AV-481, "CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Configuration List".
3. Confirm and/or change setting value for each item.
CAUTION:
Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.
4. Select “Next”.
CAUTION:
Make sure to select “Next”, confirm each setting value and press “OK” even if the indicated configuration of brand new around view monitor control unit is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model can not be memorized.
5. When "Completed", select "End".

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by around view monitor control unit operates normally.

>> Work End.

CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Configuration List

INFOID:0000000012849627

CAUTION:
Thoroughly read and understand the vehicle specification. Incorrect settings may result in abnormal control of ECU.

MANUAL SETTING ITEM	
Items	Setting value
BCI FUNCTION	WITH ⇔ WITHOUT

⇔: Items which confirm vehicle specifications

ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT : Description

INFOID:0000000012849628

BEFORE REPLACEMENT

When replacing sonar control unit, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:
If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing sonar control unit.

AFTER REPLACEMENT

CAUTION:
When replacing sonar control unit, you must perform “After Replace ECU” with CONSULT.
- **Complete the procedure of “After Replace ECU” in order.**
- **If you set incorrect “After Replace ECU”, incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**

ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT : Work Procedure

INFOID:0000000012849629

1. SAVING VEHICLE SPECIFICATION

CONSULT-

Enter “Re/Programming, Configuration” and perform “Before Replace ECU” to save or print current vehicle specification.

NOTE:

If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing sonar control unit.

>> GO TO 2.

2.REPLACE SONAR CONTROL UNIT

Replace sonar control unit. Refer to AV-645, "Removal and Installation".

>> GO TO 3.

3.WRITING VEHICLE SPECIFICATION

CONSULT

1. Enter "Re/Programming, Configuration".
2. If “Before Replace ECU” operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press “Confirm” to write vehicle specification. Refer to AV-482, "CONFIGURATION (SONAR CONTROL UNIT) : Work Procedure".
3. If “Before Replace ECU” operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to AV-482, "CONFIGURATION (SONAR CONTROL UNIT) : Work Procedure".

>> GO TO 4.

4.OPERATION CHECK

Check that the operation of the sonar control unit is normal.

>> Work End.

CONFIGURATION (SONAR CONTROL UNIT)

CONFIGURATION (SONAR CONTROL UNIT) : Description

INFOID:0000000012849630

Vehicle specification needs to be written with CONSULT because it is not written after replacing sonar control unit.

Configuration has three functions as follows:

Function	Description
"Before Replace ECU"	• Reads the vehicle configuration of current sonar control unit. • Saves the read vehicle configuration.
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

CAUTION:

- **When replacing sonar control unit, you must perform “Select Saved Data List” or "After Replace ECU" with CONSULT.**
- **Complete the procedure of “Select Saved Data List” or "After Replace ECU" in order.**
- **If you set incorrect “Select Saved Data List” or "After Replace ECU", incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**
- **Never perform “Select Saved Data List” or "After Replace ECU" except for new sonar control unit.**

CONFIGURATION (SONAR CONTROL UNIT) : Work Procedure

INFOID:0000000012849631

1.WRITING MODE SELECTION

CONSULT

Select “Reprogramming, Configuration” of sonar control unit.

When writing saved data>>GO TO 2.
When writing manually>>GO TO 3.

2.PERFORM “SAVED DATA LIST”

CONSULT
Automatically “Operation Log Selection” window will display if “Before Replace ECU” was performed. Select applicable file from the “Save Data List” and press “Confirm”.

>> Work End.

3.PERFORM “AFTER REPLACE ECU” OR “MANUAL CONFIGURATION”

CONSULT
1. Select “After Replace ECU” or “Manual Configuration”.
2. Identify the correct model and configuration list. Refer to AV-483, "CONFIGURATION (SONAR CONTROL UNIT) : Configuration List".
3. Confirm and/or change setting value for each item.
   CAUTION:
   Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.
4. Select “Next”.
   CAUTION:
   Make sure to select “Next”, confirm each setting value and press “OK” even if the indicated configuration of brand new sonar control unit is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model can not be memorized.
5. When "Completed", select "End".

>> GO TO 4.

4.OPERATION CHECK

Confirm that each function controlled by sonar control unit operates normally.

>> Work End.

CONFIGURATION (SONAR CONTROL UNIT) : Configuration List

INFOID:0000000012849632

CAUTION:
Thoroughly read and understand the vehicle specification. Incorrect settings may result in abnormal control of ECU.

MANUAL SETTING ITEM	
Items	Setting value
BCI FUNCTION	WITH ⇔ WITHOUT

⇔: Items which confirm vehicle specifications

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Description

INFOID:0000000012849633

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

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Work Procedure

INFOID:0000000012849634

1.DRIVING

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

>> END

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description

INFOID:0000000012849635

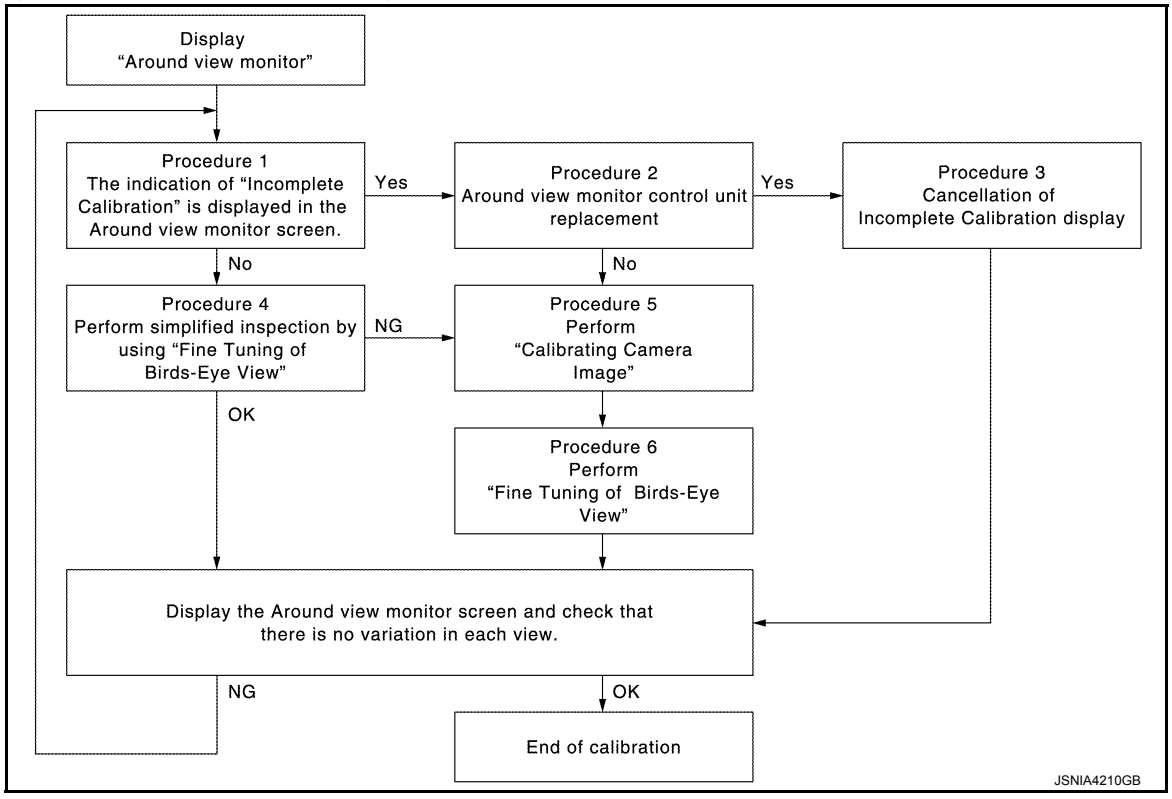
- Calibration must be performed after removing/replacing the cameras, removing parts (e.g. front grille, door mirror, and others) mounted on the cameras, or replacing the Around view monitor control unit.
- The use of CONSULT is required to perform calibration or writing of calibration results to the Around view monitor control unit.
- Align the white lines on the road near the vehicle at the boundary of each camera image by this camera calibration. The white lines far from the vehicle may not be aligned at the boundary of each camera image. The farther the line, the greater the difference is.

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Work Procedure

INFOID:0000000012849636

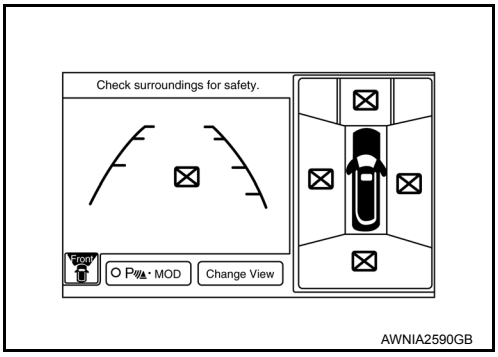
CALIBRATION FLOWCHART

Following the flowchart shown in the figure, perform the calibration.



NOTE:

View in the incomplete calibration state is indicated by “⊠” on the around view monitor.



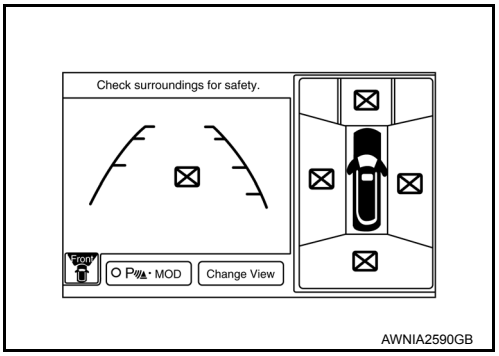
CALIBRATION PROCEDURE

1. AROUND VIEW MONITOR SCREEN CONFIRMATION

Check that there is no indication of “Incomplete calibration”.

Is the “Incomplete calibration” display visible?

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



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2. CHECK THAT AROUND VIEW MONITOR CONTROL UNIT IS REPLACED

Check that the around view monitor control unit is replaced.

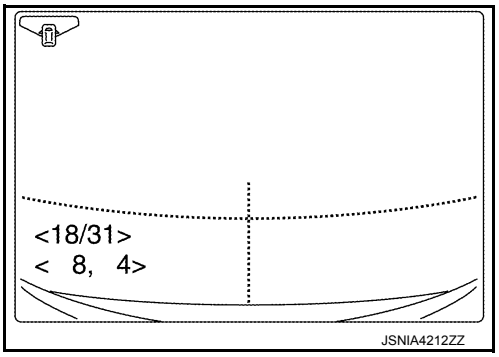
Is the around view monitor control unit replaced?

YES >> GO TO 3.
NO >> GO TO 5.

3. CANCEL THE INDICATION OF INCOMPLETE CALIBRATION (PERFORM THIS ONLY AFTER REPLACING AROUND VIEW MONITOR CONTROL UNIT.)

CONSULT work support

1. On the CONSULT screen, touch “CALIBRATING CAMERA IMAGE (FRONT CAMERA)”, “CALIBRATING CAMERA IMAGE (PASS-SIDE CAMERA)”, “CALIBRATING CAMERA IMAGE (DR-SIDE CAMERA)”, or “CALIBRATING CAMERA IMAGE (REAR CAMERA)” to accept the selection.
   NOTE:
   To cancel the indication of Incomplete calibration, select items based on the target camera.
2. On the adjustment screen of each camera, touch “APPLY” button. After this, touch “OK” button.
   CAUTION:
   - **Never perform operations other than those mentioned above.**
   - **Never perform “Initialize Camera Image Calibration”.**
3. Display the around view monitor screen to check that there is no errors, such as deviations among the camera images.



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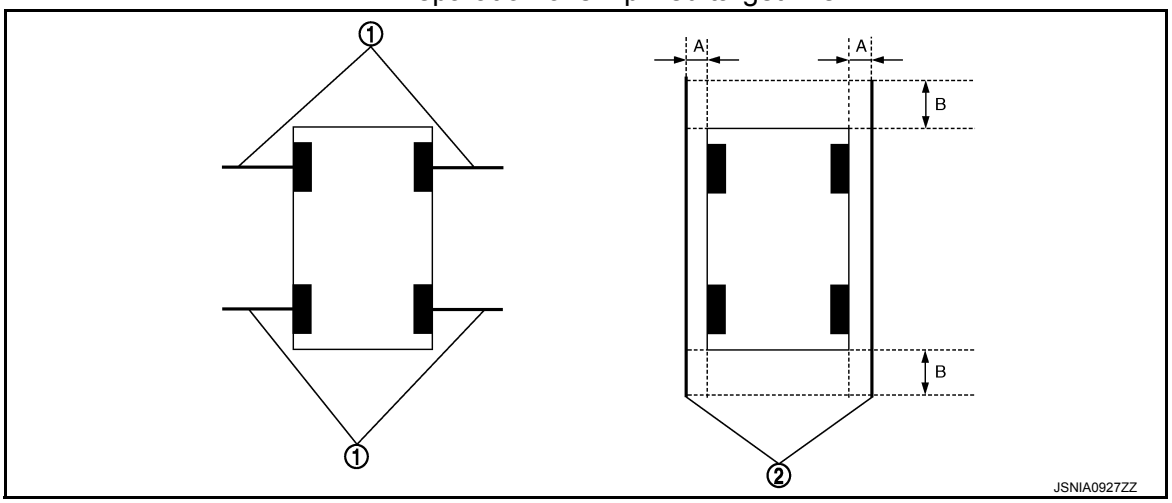
Is there a malfunction?

YES >> Calibration end
NO >> GO TO 1.

4. PERFORM SIMPLIFIED CONFIRMATION/ADJUSTMENT BY “FINE TUNING OF BIRDS-EYE VIEW”

1. Put target line 1 on the ground beside each axle using packing tape, etc.
2. Put target lines 2 equal to the vehicle total length + approximately 1.0 m (39.3 in) from the vehicle side (right and left) at approximately 30 cm (11.8 in) away from the vehicle (make the line as parallel with the vehicle as possible)

Preparation of simplified target line



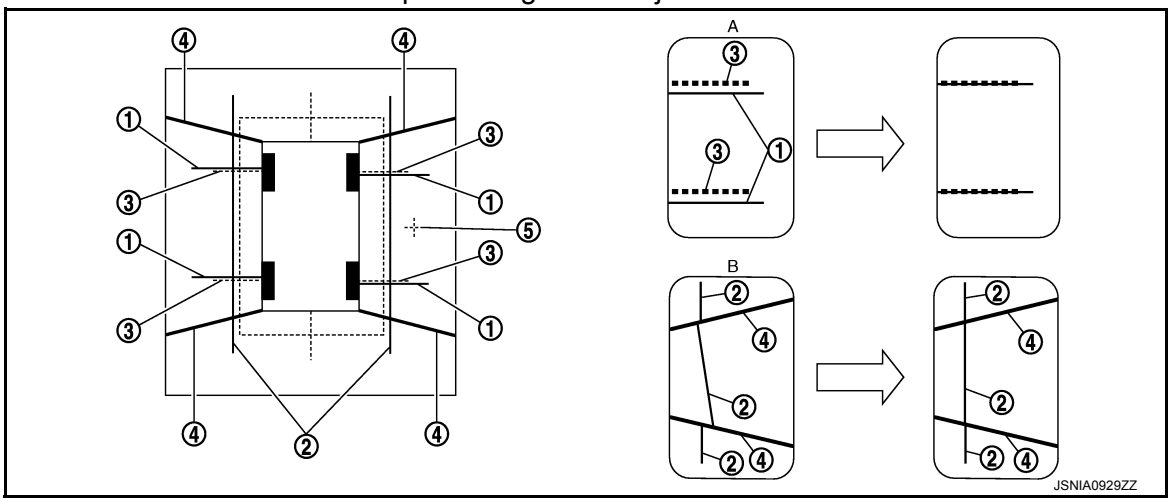
1. Target lines 1
2. Target lines 2
A. Approx. 30 cm (11.8 in)
B. Approx. 1.0 m (39.3 in)

3. CONSULT work support
   Touch “FINE TUNING OF BIRDS-EYE VIEW” on the CONSULT screen.
4. On the CONSULT screen, touch “SELECT” button to select right or left camera and perform camera calibration as instructed below:

- If the marker on the screen deviates from Target line 1, touch “AXIS X” button and “AXIS Y” button to adjust so that the marker is placed on the Target line 1.
- If Target line 2 is misaligned among the cameras, adjust each camera image to bring Target line 2 into a straight line.

CAUTION:
Never adjust the front camera and rear view camera. Only adjust the right and left cameras.

Simplified target line adjustment method



1. Target lines 1
2. Target lines 2
3. Marker for target line 1
4. Boundary between cameras
5. Crosshairs cursor (mark indicated the selected camera)
A. Adjustment method for target lines 1 (right)
B. Adjustment method for target lines 2 (right)

5. Adjust right and left cameras. Touch "APPLY" on the CONSULT screen to display adjustment results.
6. After adjusting right and left cameras, check that the marker is properly placed on the screen and there is no deviation in Target line 1.
   NOTE:
   • It can be initialized to the NISSAN factory default condition with “Initialize Camera Image Calibration”.
   • The adjustment value is cancelled on this mode by performing “Initialize Camera Image Calibration”.

Is the difference corrected?

YES >> On the CONSULT screen, touch “OK” button to complete writing to the around view monitor control unit.

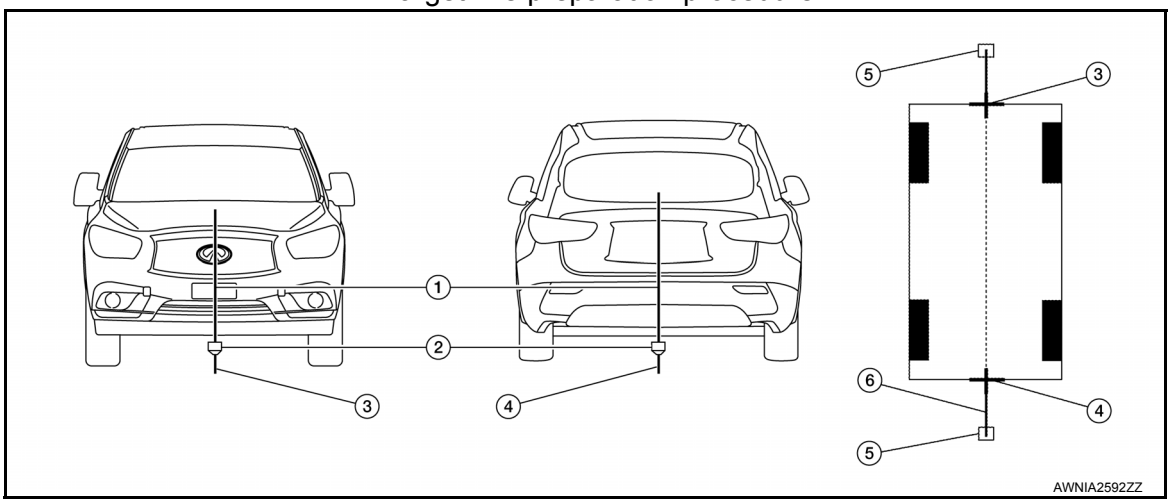
NO >> GO TO 5.

5. PERFORM “CALIBRATING CAMERA IMAGE”

Preparation of target line

1. Hang a string with a weight as shown in the figure. Put the points FM0, RM0 (mark) on the ground at the center of the vehicle front end and rear end with white packing tape or a pen.
2. Route the vinyl string under the vehicle, and then pull and fix it on the point approximately 1.0 m (39.9 in) to the front and rear of the vehicle through the points FM0 and RM0 using packing tape.

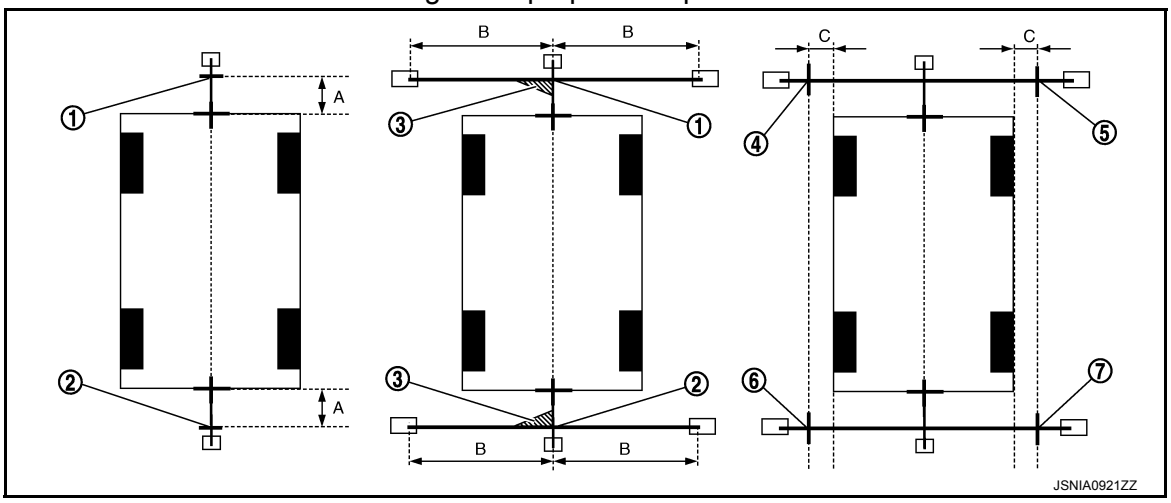
Target line preparation procedure 1



1. Thread
2. Weight
3. Point FM0 (mark)
4. Point RM0 (mark)
5. Packing tape (to fix the vinyl string)
6. Vinyl string

3. Put the points FM and RM (mark) 75 cm (29.5 in) from the points FM0 and RM0 individually.
4. Route the vinyl string through the points FM and RM using a triangle scale, and then fix it at approximately 1.5 m (59 in) on both sides with packing tape.
5. Put the points FL, FR, RL, and RR (mark) to both right and left [vehicle width / 2 + 30 cm (11.8 in)] from the points FM and RM.

Target line preparation procedure 2



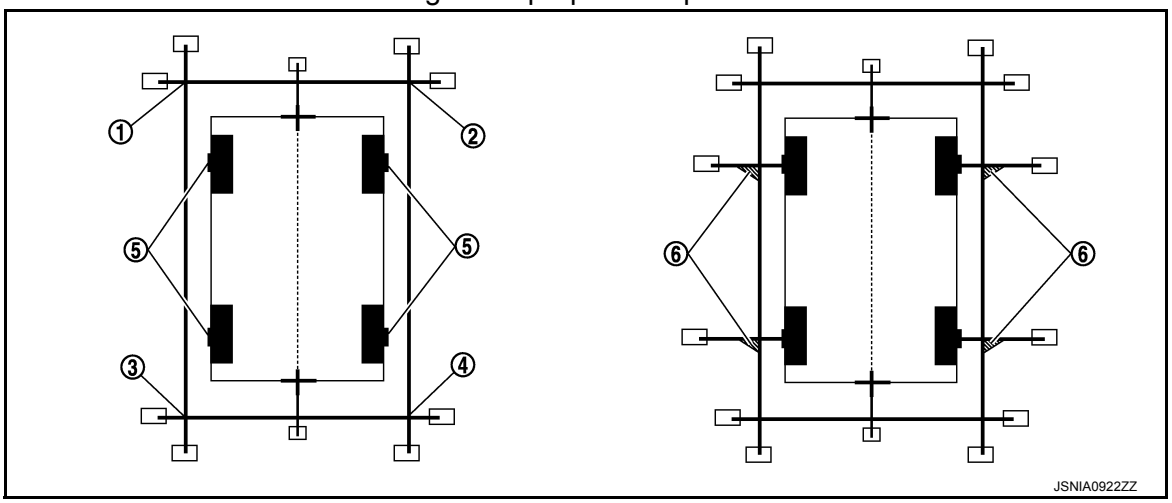
1. Point FM
2. Point RM
3. Triangle scale
4. Point FL (mark)
5. Point FR (mark)
6. Point RL (mark)

7. Point RR (mark)

A. 75 cm (29.5 in) B. Approx. 1.5 m (59 in) C. 30 cm (11.8 in) [Vehicle width/ 2 + 30 cm (11.8 in) from the points FM and RM]

6. Draw the lines of the points FL – RL and FR – RR with vinyl string, and fix it with packing tape.
7. Put a mark on the center of each axle, draw vertical lines to the lines of the points FL – RL and FR – RR from the marks on the center of the axle using a triangle scale, and then fix the lines using packing tape.

Target line preparation procedure 3

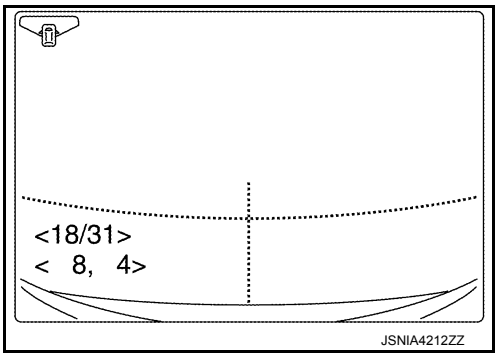


1. Point FL 2. Point FR 3. Point RL
4. Point RR 5. Center position of axle 6. Triangle scale

Perform “Calibrating Camera Image”

CONSULT work support

1. On the CONSULT screen, touch “CALIBRATING CAMERA IMAGE (FRONT CAMERA)”, “CALIBRATING CAMERA IMAGE (PASS-SIDE CAMERA)”, “CALIBRATING CAMERA IMAGE (DR-SIDE CAMERA)”, or “CALIBRATING CAMERA IMAGE (REAR CAMERA)” to accept the selection.
   NOTE:
   To cancel the indication of Incomplete calibration, select items based on the target camera.
2. On the adjustment screen of each camera, adjust the parameter by touching the “AXIS X” button, “AXIS Y” button, and “ROTATE” button to place the calibration marker shown on the camera screen on the target line drawn on the ground.



Adjustment range	
Rotation direction (Center dial)	: 31 patterns (16 on the center)
Upper/lower direction (upper/lower switch)	: –22 – 22
Left/right direction (left/right switch)	: –22 – 22

3. Touch “APPLY” button on the CONSULT screen. “PRCSNG” is displayed and adjustment results are shown on the camera screen.
   CAUTION:
   Check that “PRCSNG” is displayed. Do never perform other operations while “PRCSNG” is displayed.
4. Touch “OK” button on the CONSULT screen. “PRCSNG” is displayed and adjustment results are written to the around view monitor control unit.
   CAUTION:
   Check that “PRCSNG” is displayed. Do never perform other operations while “PRCSNG” is displayed.

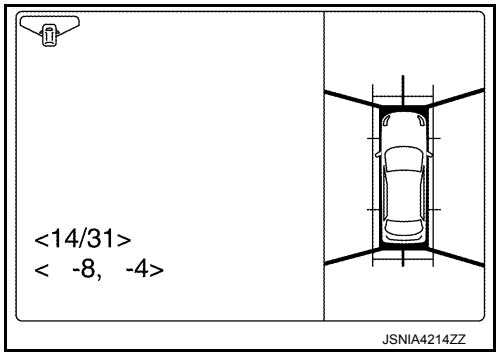
>> GO TO 6.

6. PERFORM “FINE TUNING OF BIRDS-EYE VIEW”

This mode is designed to align the boundary between each camera image that could not be aligned in the “Calibrating Camera Image” mode.

CONSULT work support

1. Select “FINE TUNING OF BIRDS-EYE VIEW” by touching CONSULT screen.
2. On the adjustment screen of each camera, adjust the parameter by touching the “AXIS X” button, “AXIS Y” button”, and “ROTATE” button to place the calibration marker shown on the camera screen on the target line drawn on the ground.
   NOTE:
   Touch “SELECT” button on the CONSULT screen to select the target camera.



3. Touch “APPLY” button on the CONSULT screen. “PRCSNG” is displayed and adjustment results are shown on the camera screen.
   CAUTION:
   Check that “PRCSNG” is displayed. Do never perform other operations while “PRCSNG” is displayed.
4. Touch “OK” button on the CONSULT screen. “PRCSNG” is displayed and adjustment results are written to the around view monitor control unit.
   CAUTION:
   - **Check that “PRCSNG” is displayed. Never perform other operations while “PRCSNG” is displayed.**
   - **After pressing the “OK” button, never press buttons other than the “BACK” button.**

   NOTE:
   - It can be initialized to the NISSAN factory default condition with “Initialize Camera Image Calibration”.
   - The adjustment value is cancelled in this mode by performing “Initialize Camera Image Calibration”.

>> Calibration end

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

AV CONTROL UNIT

AV CONTROL UNIT : DTC Logic

INFOID:0000000012849637

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1000]	AV control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.	CAN communication system.

AV CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012849638

1. PERFORM SELF DIAGNOSTIC RESULT

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

Is CAN COMM CIRCUIT displayed?

YES >> Refer to LAN-28, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-50, "Intermittent Incident".

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : DTC Logic

INFOID:0000000012849639

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1000]	Sonar control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.	CAN communication system.

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : Diagnosis Procedure

INFOID:0000000012849640

1. PERFORM SELF DIAGNOSTIC RESULT

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Perform Self Diagnostic Result for SONAR.

Is CAN COMM CIRCUIT displayed?

YES >> Refer to LAN-28, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-50, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

AV CONTROL UNIT

AV CONTROL UNIT : DTC Logic

INFOID:0000000012849641

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : DTC Logic

INFOID:0000000012849642

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the sonar control unit if the malfunction occurs constantly. Refer to AV-644, "Removal and Installation".

U1200 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849643

CONSULT Display	DTC Detection Condition	Possible Cause
CONT UNIT [U1200]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U1201 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849644

CONSULT Display	DTC Detection Condition	Possible Cause
GYRO NO CONN [U1201]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U1202 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849645

CONSULT Display	DTC Detection Condition	Possible Cause
G-SENSOR NO CONN [U1202]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U1204 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849646

CONSULT Display	DTC Detection Condition	Possible Cause
GPS CONN [U1204]	GPS malfunction is detected.	An intermittent error caused by strong radio interference, GPS reception error, etc. may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849647

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1204 detected?

YES >> Replace AV control unit. Refer to AV-618, "Removal and Installation".
NO >> Refer to GI-50, "Intermittent Incident".

U1205 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849648

CONSULT Display	DTC Detection Condition	Possible Cause
GPS ROM [U1205]	GPS malfunction is detected.	An intermittent error caused by strong radio interference, GPS reception error, etc. may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849649

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1205 detected?

YES >> Replace AV control unit. Refer to AV-618, "Removal and Installation".
NO >> Refer to GI-50, "Intermittent Incident".

U1206 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849650

CONSULT Display	DTC Detection Condition	Possible Cause
GPS RAM [U1206]	GPS malfunction is detected.	An intermittent error caused by strong radio interference, GPS reception error, etc. may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849651

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1206 detected?

YES >> Replace AV control unit. Refer to AV-618, "Removal and Installation".
NO >> Refer to GI-50, "Intermittent Incident".

U1207 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849652

CONSULT Display	DTC Detection Condition	Possible Cause
GPS RTC [U1207]	GPS malfunction is detected.	An intermittent error caused by strong radio interference, GPS reception error, etc. may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849653

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1207 detected?

YES >> Replace AV control unit. Refer to AV-618, "Removal and Installation".
NO >> Refer to GI-50, "Intermittent Incident".

U1216 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849654

CONSULT Display	DTC Detection Condition	Possible Cause
CAN CONT [U1216]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U1217 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849655

CONSULT Display	DTC Detection Condition	Possible Cause
BLUETOOTH MODULE [U1217]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U1218 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849656

CONSULT Display	DTC Detection Condition	Possible Cause
HDD CONN [U1218]	AV control unit malfunction is detected.	An intermittent error causing HDD malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U1219 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849657

CONSULT Display	DTC Detection Condition	Possible Cause
HDD READ [U1219]	AV control unit malfunction is detected.	An intermittent error causing HDD malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U121A AV CONTROL UNIT

DTC Logic

INFOID:0000000012849658

CONSULT Display	DTC Detection Condition	Possible Cause
HDD WRITE [U121A]	AV control unit malfunction is detected.	An intermittent error causing HDD malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U121B AV CONTROL UNIT

DTC Logic

INFOID:0000000012849659

CONSULT Display	DTC Detection Condition	Possible Cause
HDD COMM [U121B]	AV control unit malfunction is detected.	An intermittent error causing HDD malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U121C AV CONTROL UNIT

DTC Logic

INFOID:0000000012849660

CONSULT Display	DTC Detection Condition	Possible Cause
HDD ACCESS [U121C]	AV control unit malfunction is detected.	An intermittent error causing HDD malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U121D AV CONTROL UNIT

DTC Logic

INFOID:0000000012849661

CONSULT Display	DTC Detection Condition	Possible Cause
DSP CONN [U121D]	AV control unit malfunction is detected.	An intermittent error causing disc player malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849662

1.CHECK CD PLAYBACK

Check the CD playback operation of the AV control unit. Refer to Owner's Manual for audio system operating instructions.

Is the CD playback function of the AV control unit operating normally?

YES >> Refer to GI-50, "Intermittent Incident".
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

U121E AV CONTROL UNIT

DTC Logic

INFOID:0000000012849663

CONSULT Display	DTC Detection Condition	Possible Cause
DSP COMM [U121E]	AV control unit malfunction is detected.	An intermittent error causing disc player malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849664

1.CHECK CD PLAYBACK

Check the CD playback operation of the AV control unit. Refer to Owner's Manual for audio system operating instructions.

Is the CD playback function of the AV control unit operating normally?

YES >> Refer to GI-50, "Intermittent Incident".
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

U1225 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849665

CONSULT Display	DTC Detection Condition	Possible Cause
USB CONTROLLER [U1225]	USB connection malfunction is detected.	Check that connection to USB connector is normal.

U1227 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849666

CONSULT Display	DTC Detection Condition	Possible Cause
DVD COMM [U1227]	AV control unit malfunction is detected.	An intermittent error causing disc player malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849667

1.CHECK DVD PLAYBACK

Check the DVD playback operation of the AV control unit. Refer to Owner's Manual for audio system operating instructions.

Is the DVD playback function of the AV control unit operating normally?

YES >> Refer to GI-50, "Intermittent Incident".
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

U1228 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849668

CONSULT Display	DTC Detection Condition	Possible Cause
SUB CPU CONN [U1228]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U1229 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849669

CONSULT Display	DTC Detection Condition	Possible Cause
iPod CERTIFICATION [U1229]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U122A AV CONTROL UNIT

DTC Logic

INFOID:0000000012849670

CONSULT Display	DTC Detection Condition	Possible Cause
CONFIG UNFINISH [U122A]	Configuration data is incomplete.	Write configuration data. Refer to AV-478, "CONFIGURATION (AV CONTROL UNIT) : Work Procedure".

Diagnosis Procedure

INFOID:0000000012849671

1.PERFORM CONFIGURATION

When U122A is detected, configuration data must be written.

>> Write configuration data with CONSULT. Refer to AV-478, "CONFIGURATION (AV CONTROL UNIT) : Work Procedure".

U122E AV CONTROL UNIT

DTC Logic

INFOID:0000000012849672

CONSULT Display	DTC Detection Condition	Possible Cause
Built-in AUDIO CONN [U122E]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U1231 BOSE AMP.

DTC Logic

INFOID:0000000012849673

CONSULT Display	DTC Detection Condition	Possible Cause
AMP TEMP [U1231]	BOSE amp. malfunction is detected.	Replace BOSE amp. if malfunction occurs constantly. Refer to AV-624, "Removal and Installation".

U1232 STEERING ANGLE SENSOR

DTC Logic

INFOID:0000000012849674

CONSULT Display	DTC Detection Condition	Possible Cause
ST ANGLE SEN CALIB [U1232]	Predictive course line center position adjustment of steering angle sensor is incomplete.	Adjust predictive course line center position of steering angle sensor.

Diagnosis Procedure

INFOID:0000000012849675

1.ADJUST PREDICTIVE COURSE LINE CENTER POSITION OF STEERING ANGLE SENSOR

When U1232 is detected, the predictive course line center position of the steering angle sensor needs to be adjusted.

>> Adjust the predictive course line center position of steering angle sensor. Refer to AV-483, "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Work Procedure".

U1243 DISPLAY UNIT

DTC Logic

INFOID:0000000012849676

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT DISP CONN [U1243]	When any of the following is detected. • display unit power supply or ground circuit malfunction. • serial communication circuit malfunction between front display unit and AV control unit.	• Display unit power supply and ground circuits. • Serial communication circuits between front display unit and AV control unit.

Diagnosis Procedure

INFOID:0000000012849677

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check display unit power supply and ground circuits. Refer to AV-552, "DISPLAY UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect display unit connector M92 and AV control unit connector M124.
3. Check continuity between display unit connector M92 terminals 9, 10 and AV control unit connector M124 terminals 77, 61.

Display unit		AV control unit		Continuity
Connector	Terminals	Connector	Terminals	
M92	9	M124	77	Yes
	10		61	

4. Check continuity between display unit connector M92 terminals 9, 10 and ground.

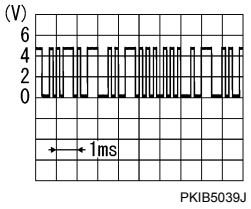
Display unit		Ground	Continuity
Connector	Terminals		
M92	9	—	No
	10		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK COMMUNICATION SIGNAL (CONT→DISP)

1. Connect display unit connector M92 and AV control unit connector M124.
2. Turn ignition switch ON.
3. Check signal between display unit connector M92 terminal 10 and ground.

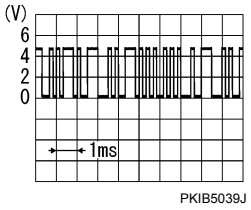
Display unit		Ground	Condition	Reference value
(+)		(–)		
Connector	Terminal			
M92	10	—	When adjusting display brightness.	 PKIB5039J

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

4. CHECK COMMUNICATION SIGNAL (DISP→CONT)

Check signal between display unit connector M92 terminal 9 and ground.

Display unit		Ground	Condition	Reference value
(+)		(–)		
Connector	Terminal			
M92	9	—	When adjusting display brightness.	 PKIB5039J

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace display unit. Refer to AV-623, "Removal and Installation".

U1244 GPS ANTENNA

DTC Logic

INFOID:0000000012849678

CONSULT Display	DTC Detection Condition	Possible Cause
GPS ANTENNA CONN [U1244]	GPS antenna connection malfunction is detected.	GPS antenna disconnection.

Diagnosis Procedure

INFOID:0000000012849679

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.GPS ANTENNA INSPECTION

Visually inspect the GPS antenna and antenna feeder. Refer to AV-650, "Removal and Installation".

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV CONTROL UNIT VOLTAGE

1. Disconnect AV control unit connector M25.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector M25 and ground.

AV control unit		Ground	Voltage
Connector	Terminal		
M25	188	—	5.0 V

Is inspection result normal?

YES >> Inspection End.
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

U1258 SATELLITE RADIO ANTENNA

DTC Logic

INFOID:0000000012849680

CONSULT Display	DTC Detection Condition	Possible Cause
XM ANTENNA CONN [U1258]	Satellite radio antenna connection malfunction is detected.	Satellite radio antenna disconnection.

Diagnosis Procedure

INFOID:0000000012849681

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.SATELLITE RADIO ANTENNA INSPECTION

Visually inspect the satellite radio antenna and antenna feeder. Refer to AV-648, "Location of Antennas".

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV CONTROL UNIT VOLTAGE

1. Disconnect AV control unit connector M133.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector M133 and ground.

AV control unit		Ground	Voltage
Connector	Terminal		
M133	169	—	5.0 V

Is inspection result normal?

YES >> Inspection End.
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

U125A HEADREST DISPLAY UNIT

DTC Logic

INFOID:0000000012849682

CONSULT Display	DTC Detection Condition	Possible Cause
3RD DISP CONN [U125A]	When any of the following is detected. • headrest display unit power supply or ground circuit malfunction. • AV communication circuit malfunction between headrest display units.	• Headrest display unit power supply and ground circuits. • AV communication circuits between headrest display units.

Diagnosis Procedure

INFOID:0000000012849683

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK HEADREST DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check headrest display unit power supply and ground circuits. Refer to AV-556, "HEADREST DISPLAY UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV COMMUNICATION CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect headrest display unit connectors.
3. Check continuity between headrest display unit (driver seat) connector B202 and headrest display unit (passenger seat) connector B302.

Headrest display unit (driver seat)		Headrest display unit (passenger seat)		Continuity
Connector	Terminals	Connector	Terminals	
B202	26	B302	10	Yes
	27		11	

4. Check continuity between headrest display unit (driver seat) connector B202 and ground.

Headrest display unit (driver seat)		Ground	Continuity
Connector	Terminals		
B202	26	—	No
	27		

Is the inspection result normal?

YES >> Replace headrest display unit (passenger seat). Refer to AV-641, "Removal and Installation".
NO >> Repair or replace harness or connectors.

U1263 USB

DTC Logic

INFOID:0000000012849684

CONSULT Display	DTC Detection Condition	Possible Cause
USB OVERCURRENT [U126]	Overcurrent in USB connector is detected.	Check USB harness between the AV control unit and USB connector.

Diagnosis Procedure

INFOID:0000000012849685

1.CHECK USB INTERFACE HARNESS

Visually inspect USB interface harness.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace USB interface harness. Refer to AV-632, "Removal and Installation".

2.CHECK USB INTERFACE HARNESS CONTINUITY

Check USB interface harness continuity. Refer to AV-592, "Diagnosis Procedure".

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-618, "Removal and Installation".
NO >> Replace USB interface harness. Refer to AV-632, "Removal and Installation".

U1264 ANTENNA AMP.

DTC Logic

INFOID:0000000012849686

CONSULT Display	DTC Detection Condition	Possible Cause
ANTENNA AMP TERMINAL [U1264]	Antenna amp. ON signal circuit open or short circuited.	Antenna amp. ON signal circuit between AV control unit and antenna amp.

Diagnosis Procedure

INFOID:0000000012849687

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND ANTENNA BASE

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M143 and antenna base connector M502.
3. Check continuity between AV control unit connector M143 and antenna base connector M502.

AV control unit		Antenna base		Continuity
Connector	Terminal	Connector	Terminal	
M143	171	M502	1	Yes

4. Check continuity between AV control unit connector M143 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M143	171	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector M143.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector M143 and ground.

AV control unit		Ground	Voltage (Approx.)
(+)		(–)	
Connector	Terminal		
M143	171	—	Battery voltage

Is the inspection result normal?

YES >> Replace antenna base. Refer to AV-648, "Location of Antennas".
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

U1265 BOSE AMP.

DTC Logic

INFOID:0000000012849688

CONSULT Display	DTC Detection Condition	Possible Cause
AMP ON TERMINAL [U1265]	BOSE amp. ON signal circuit open or short circuited.	BOSE amp. ON signal circuit between AV control unit and BOSE amp.

Diagnosis Procedure

INFOID:0000000012849689

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND BOSE SPEAKER AMP.

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M122 and Bose speaker amp. connector B130.
3. Check continuity between AV control unit connector M122 and Bose speaker amp. connector B130.

AV control unit		Bose speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M122	1	B130	20	Yes

4. Check continuity between AV control unit connector M122 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M122	1	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector M122.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector M122 and ground.

AV control unit		Ground	Voltage (Approx.)
(+)		(–)	
Connector	Terminal		
M122	1	—	Battery voltage

Is the inspection result normal?

YES >> Replace Bose speaker amp. Refer to AV-624, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

U1300 AV COMM CIRCUIT

Description

INFOID:0000000012849690

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

SELF DIAGNOSTIC RESULT DISPLAY ITEM

CONSULT Display	DTC Detection Condition	Possible Cause
• AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240]	When any of the following is detected: • Multifunction switch power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and multifunction switch.	• Multifunction switch power supply and ground circuits. Refer to AV-554, "MULTIFUNCTION SWITCH : Diagnosis Procedure". • AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT [U1300] • AMP CONN [U124E]	When any of the following is detected: • BOSE speaker amp. power supply or ground circuit malfunction. • AV communication circuits between AV control unit and BOSE speaker amp. are malfunctioning.	• BOSE speaker amp. power supply and ground circuits. Refer to AV-553, "BOSE AMP. : Diagnosis Procedure". • AV communication circuits between AV control unit and BOSE speaker amp.
• AV COMM CIRCUIT [U1300] • VIDEO DIST CONN [U1246]	When any of the following is detected: • video distributor power supply or ground circuit malfunction. • headrest display unit (driver seat) power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and headrest display unit (driver seat).	• Video distributor power supply and ground circuits. Refer to AV-555, "VIDEO DISTRIBUTOR : Diagnosis Procedure". • Headrest display unit (driver seat) power supply and ground circuits. Refer to AV-556, "HEADREST DISPLAY UNIT : Diagnosis Procedure". • AV communication circuits between AV control unit and headrest display unit (driver seat).
• AV COMM CIRCUIT [U1300] • AROUND CAMERA CONN [U125B]	When any of the following is detected: • around view monitor control unit power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and around view monitor control unit.	• Around view monitor control unit power supply and ground circuits. Refer to AV-556, "AROUND VIEW MONITOR CONTROL UNIT : Diagnosis Procedure". • AV communication circuits between AV control unit and around view monitor control unit.
• AV COMM CIRCUIT [U1300] • SONAR CONN [U125C]	When any of the following is detected: • sonar control unit power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and sonar control unit.	• Sonar control unit power supply and ground circuits. Refer to AV-557, "SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : Diagnosis Procedure". • AV communication circuits between AV control unit and sonar control unit.

CONSULT Display	DTC Detection Condition	Possible Cause
• AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • SONAR CONN [U125C] • AROUND CAMERA CONN [U125B] • VIDEO DIST CONN [U1246]	AV communication circuit malfunction between AV control unit and multifunction switch.	AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • AMP CONN [U124E] • SONAR CONN [U125C] • AROUND CAMERA CONN [U125B] • VIDEO DIST CONN [U1246]		

U1302 CAMERA POWER VOLT

DTC Logic

INFOID:0000000012849691

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAMERA SUPPLY POWER SUPPLY VOLTAGE ABNORMALITY [U1302]	Short in camera power circuit.	• Harness or connectors. • Camera. • Around view monitor control unit.

Diagnosis Procedure

INFOID:0000000012849692

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK CAMERA DATA MONITOR

Check CAMERA IMAGE SIG, CAMERA COMM STATUS and CAMERA COMM LINE for each camera in “DATA MONITOR” of “AVM”.

Is “OK” displayed for all cameras?

YES >> Refer to GI-50, "Intermittent Incident".
NO-1 (Front camera)>>GO TO 2.
NO-2 (Rear view camera)>>GO TO 4.
NO-3 (LH side camera)>>GO TO 6.
NO-4 (RH side camera)>>GO TO 8.

2.CHECK FRONT CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and camera connectors.
3. Check continuity between around view monitor control unit connector M97 and front camera connector E226.

Around view monitor control unit		Front camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	68	E226	1	Yes
	70		2	

4. Check continuity between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	68	—	No

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector M97 and front camera connector E226.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit connector M97 terminals.

Around view monitor control unit M97		Condition	Voltage (Approx.)
(+)	(–)		
Terminal	Terminal		
68	70	CAMERA switch is ON or shift position is R.	6.0 V

Is the inspection result normal?

YES >> Replace front camera. Refer to AV-636, "Removal and Installation".
NO >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".

4. CHECK REAR VIEW CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and rear view camera connector D511.
3. Check continuity between around view monitor control unit connector M97 and rear view camera connector D511.

Around view monitor control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	50	D511	8	Yes
	52		7	

4. Check continuity between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	50	—	No

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector M97 and rear view camera connector D511.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit connector M97 terminals.

Around view monitor control unit M97		Condition	Voltage (Approx.)
(+)	(–)		
Terminal	Terminal		
50	52	CAMERA switch is ON or shift position is R.	6.0 V

Is the inspection result normal?

YES >> Replace rear view camera. Refer to AV-637, "Removal and Installation".
NO >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".

6. CHECK LH SIDE CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and LH side camera connector D20.
3. Check continuity between around view monitor control unit connector M97 and LH side camera connector D20.

Around view monitor control unit		LH side camera		Continuity
Connector	Terminal	Connector	Terminal	

M97	56	D20	6	Yes
	58		18	

4. Check continuity between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	56	—	No

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace harness or connectors.

7. CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector M97 and LH side camera connector D20.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit connector M97 terminals.

Around view monitor control unit M97		Condition	Voltage (Approx.)
(+)	(−)		
Terminal	Terminal		
56	58	CAMERA switch is ON or shift position is R.	6.0 V

Is the inspection result normal?

YES >> Replace LH side camera. Refer to AV-638, "Removal and Installation".
NO >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".

8. CHECK RH SIDE CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and RH side camera connector D113.
3. Check continuity between around view monitor control unit connector M97 and RH side camera connector D113.

Around view monitor control unit		RH side camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	62	D113	6	Yes
	64		18	

4. Check continuity between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	62	—	No

Is the inspection result normal?

YES >> GO TO 9.
NO >> Repair or replace harness or connectors.

9. CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector M97 and RH side camera connector D113.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit connector M97 terminals.

Around view monitor control unit M97		Condition	Voltage (Approx.)
(+)	(–)		
Terminal	Terminal		
62	64	CAMERA switch is ON or shift position is R.	6.0 V

Is the inspection result normal?

YES >> Replace RH side camera. Refer to AV-638, "Removal and Installation".
NO >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".

U1303 LED POWER SUPPLY VOLT

DTC Logic

INFOID:0000000012849693

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
LED SUPPLY POWER SUPPLY VOLTAGE ABNORMALITY [U1303]	Short in camera power circuit.	• Harness or connectors. • Camera. • Around view monitor control unit.

Diagnosis Procedure

INFOID:0000000012849694

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK CAMERA DATA MONITOR

Check CAMERA IMAGE SIG, CAMERA COMM STATUS and CAMERA COMM LINE for each camera in “DATA MONITOR” of “AVM”.

Is “OK” displayed for all cameras?

YES >> Refer to GI-50, "Intermittent Incident".
NO-1 (LH side camera)>>GO TO 2.
NO-2 (RH side camera)>>GO TO 4.

2.CHECK LH SIDE CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and LH side camera connector D20.
3. Check continuity between around view monitor control unit connector M97 and LH side camera connector D20.

Around view monitor control unit		LH side camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	56	D20	6	Yes
	58		18	

4. Check continuity between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	56	—	No

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector M97 and LH side camera connector D20.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit connector M97 terminals.

Around view monitor control unit M97		Condition	Voltage (Approx.)
(+)	(–)		
Terminal	Terminal		
56	58	CAMERA switch is ON or shift position is R.	6.0 V

Is the inspection result normal?

YES >> Replace LH side camera. Refer to AV-638, "Removal and Installation".
NO >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".

4. CHECK RH SIDE CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and RH side camera connector D113.
3. Check continuity between around view monitor control unit connector M97 and RH side camera connector D113.

Around view monitor control unit		RH side camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	62	D113	6	Yes
	64		18	

4. Check continuity between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	62	—	No

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector M97 and RH side camera connector D113.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit connector M97 terminals.

Around view monitor control unit M97		Condition	Voltage (Approx.)
(+)	(–)		
Terminal	Terminal		
62	64	CAMERA switch is ON or shift position is R.	6.0 V

Is the inspection result normal?

YES >> Replace RH side camera. Refer to AV-638, "Removal and Installation".
NO >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".

U1304 CAMERA IMAGE CALIBRATION

DTC Logic

INFOID:0000000012849695

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
NON-COMPLETION OF THE CALIBRATION [U1304]	Camera calibration malfunction.	Cameras are not calibrated. Refer to AV-484, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Work Procedure".

U1305 CONFIG UNFINISH

DTC Logic

INFOID:0000000012849696

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
NON-COMPLETION OF THE WRITE CONFIGURATION [U1305]	Around view monitor control unit configuration malfunction.	Around view monitor control unit not configured. Refer to AV-480, "CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Work Procedure".

U1310 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849697

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (AV) [U1310]	An initial diagnosis error is detected in AV communication circuit.	Replace AV control unit if malfunction occurs constantly. Refer to AV-618, "Removal and Installation".

U1601, U1603, U1609, U160B FRONT DOOR SPEAKER/TWEETER

DTC Logic

INFOID:0000000012849698

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FL-DOOR WOOFER (OPEN, SHORT, GND-SHORT) [U1601] FL-DOOR WOOFER (VB-SHOR] [U1603]	When any of the following is detected: • Sound signal circuit malfunction between BOSE speaker amp. and front door speaker LH. • Sound signal circuit malfunction between BOSE speaker amp. and front tweeter LH.	• Sound signal circuits between BOSE speaker amp. and front door speaker LH. Refer to AV-567, "Diagnosis Procedure". • Sound signal circuits between BOSE speaker amp. and front tweeter LH. Refer to AV-564, "Diagnosis Procedure".
FR-DOOR WOOFER (OPEN, SHORT, GND-SHORT) [U1609] FR-DOOR WOOFER (VB-SHOR) [U160B]	When any of the following is detected: • Sound signal circuit malfunction between BOSE speaker amp. and front door speaker RH. • Sound signal circuit malfunction between BOSE speaker amp. and front tweeter RH.	• Sound signal circuits between BOSE speaker amp. and front door speaker RH. Refer to AV-567, "Diagnosis Procedure". • Sound signal circuits between BOSE speaker amp. and front tweeter RH. Refer to AV-564, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849699

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1601, U1603, U1609 or U160B detected?

YES >> Refer to AV-567, "Diagnosis Procedure" (front door speaker) or AV-564, "Diagnosis Procedure" (front tweeter).

NO >> Refer to GI-50, "Intermittent Incident".

U1627, U162F TWEETER

DTC Logic

INFOID:0000000012849700

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
F-INST L-TWEETER (OPEN, SHORT, GND-SHORT or VB-SHOR) [U1627]	Sound signal circuit malfunction between BOSE speaker amp. and instrument panel tweeter LH.	Sound signal circuits between BOSE speaker amp. and instrument panel tweeter LH. Refer to AV-561, "Diagnosis Procedure".
F-INST R-TWEETER (OPEN, SHORT, GND-SHORT or VB-SHOR) [U162F]	Sound signal circuit malfunction between BOSE speaker amp. and instrument panel tweeter RH.	Sound signal circuits between BOSE speaker amp. and instrument panel tweeter RH. Refer to AV-561, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849701

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1627 or U162F detected?

YES >> Refer to AV-561, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

U162A CENTER SPEAKER

DTC Logic

INFOID:0000000012849702

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
F-INST C-SQUAWK (OPEN, SHORT, GND-SHORT, or VB-SHORT) [U162A]	Sound signal circuit malfunction between BOSE speaker amp. and center speaker.	Sound signal circuits between BOSE speaker amp. and center speaker. Refer to AV-559, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849703

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U162A detected?

YES >> Refer to AV-559, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

U1684, U1687, U168C, U168F REAR DOOR SPEAKER/TWEETER

DTC Logic

INFOID:0000000012849704

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
2L-DOOR SPEAKER (OPEN, SHORT, GND-SHORT) [U1684] 2L-DOOR SPEAKER (VB-SHOR) [U1687]	Sound signal circuit malfunction between BOSE speaker amp. and rear door speaker LH.	Sound signal circuits between BOSE speaker amp. and rear door speaker LH. Refer to AV-570, "Diagnosis Procedure".
2R-DOOR SPEAKER (OPEN, SHORT, GND-SHORT) [U168C] 2R-DOOR SPEAKER (VB-SHOR) [U168F]	Sound signal circuit malfunction between BOSE speaker amp. and rear door speaker RH.	Sound signal circuits between BOSE speaker amp. and rear door speaker RH. Refer to AV-570, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849705

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1684, U1687, U168C or U168F detected?

YES >> Refer to AV-570, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

U175D WOOFER

DTC Logic

INFOID:0000000012849706

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
R-LUGGAGE L-WOOFER (OPEN, SHORT, GND-SHORT or VB-SHOR) [U175D]	Sound signal circuit malfunction between BOSE speaker amp. and subwoofer.	Sound signal circuits between BOSE speaker amp. and subwoofer. Refer to AV-576, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849707

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U175D detected?

YES >> Refer to AV-576, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

U176A, U1772 ROOF SPEAKER

DTC Logic

INFOID:0000000012849708

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
R-ROOF L-SQAWK (OPEN, SHORT, GND-SHORT or VB-SHOR) [U176A]	Sound signal circuit malfunction between BOSE speaker amp. and rear side speaker LH.	Sound signal circuits between BOSE speaker amp. and rear side speaker LH. Refer to AV-573, "Diagnosis Procedure".
R-ROOF R-SQAWK (OPEN, SHORT, GND-SHORT or VB-SHOR) [U1772]	Sound signal circuit malfunction between BOSE speaker amp. and rear side speaker RH.	Sound signal circuits between BOSE speaker amp. and rear side speaker RH. Refer to AV-573, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849709

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U176A or U1772 detected?

YES >> Refer to AV-573, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

B2720 CORNER SENSOR [RL]

DTC Logic

INFOID:0000000012849710

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR LEFT SIDE EXTERNAL SENSOR [B2720]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Rear sonar sensor LH outer.

Diagnosis Procedure

INFOID:0000000012849711

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK REAR SONAR SENSOR LH OUTER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and rear sonar sensor LH outer connector.
3. Check continuity between sonar control unit connector M70 and rear sonar sensor LH outer connector B455.

Sonar control unit		Rear sonar sensor LH outer		Continuity
Connector	Terminal	Connector	Terminal	
M70	22	B455	2	Yes
	14		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	22	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR SONAR SENSOR LH OUTER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	22	—	0V

Is the inspection result normal?

YES >> Replace rear sonar sensor LH outer. Refer to AV-645, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2721 CENTER SENSOR [RL]

DTC Logic

INFOID:0000000012849712

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR LEFT SIDE INTERNAL SENSOR [B2721]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Rear sonar sensor LH inner.

Diagnosis Procedure

INFOID:0000000012849713

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK REAR SONAR SENSOR LH INNER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and rear sonar sensor LH inner connector.
3. Check continuity between sonar control unit connector M70 and rear sonar sensor LH inner connector B457.

Sonar control unit		Rear sonar sensor LH inner		Continuity
Connector	Terminal	Connector	Terminal	
M70	21	B457	2	Yes
	14		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	21	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR SONAR SENSOR LH INNER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	21	—	0V

Is the inspection result normal?

YES >> Replace rear sonar sensor LH inner. Refer to AV-645, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2722 CENTER SENSOR [RR]

DTC Logic

INFOID:0000000012849714

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR RIGHT SIDE INTERNAL SENSOR [B2722]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Rear sonar sensor RH inner.

Diagnosis Procedure

INFOID:0000000012849715

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK REAR SONAR SENSOR RH INNER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and rear sonar sensor RH inner connector.
3. Check continuity between sonar control unit connector M70 and rear sonar sensor RH inner connector B458.

Sonar control unit		Rear sonar sensor RH inner		Continuity
Connector	Terminal	Connector	Terminal	
M70	9	B458	2	Yes
	14		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	9	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR SONAR SENSOR RH INNER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	9	—	0V

Is the inspection result normal?

YES >> Replace rear sonar sensor RH inner. Refer to AV-645, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2723 CORNER SENSOR [RR]

DTC Logic

INFOID:0000000012849716

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR RIGHT SIDE EXTERNAL SENSOR [B2723]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Rear sonar sensor RH outer.

Diagnosis Procedure

INFOID:0000000012849717

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK REAR SONAR SENSOR RH OUTER SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and rear sonar sensor RH outer connector.
3. Check continuity between sonar control unit connector M70 and rear sonar sensor RH outer connector B456.

Sonar control unit		Rear sonar sensor RH outer		Continuity
Connector	Terminal	Connector	Terminal	
M70	10	B456	2	Yes
	14		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	10	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR SONAR SENSOR RH OUTER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	10	—	0V

Is the inspection result normal?

YES >> Replace rear sonar sensor RH outer. Refer to AV-645, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2724 SONAR CONTROL UNIT

DTC Logic

INFOID:0000000012849718

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
ECU [B2724]	Sonar control module malfunction.	Replace sonar control module.

B2725 REAR BUZZER

DTC Logic

INFOID:0000000012849719

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR BUZZER [B2725]	• Buzzer is open or short circuited. • Buzzer malfunction.	• Harness or connectors. • Buzzer.

Diagnosis Procedure

INFOID:0000000012849720

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK SONAR BUZZER SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and sonar buzzer connector.
3. Check continuity between sonar control unit connector M70 and sonar buzzer connector B35.

Sonar control unit		Sonar buzzer		Continuity
Connector	Terminal	Connector	Terminal	
M70	20	B35	3	Yes

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	20	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK SONAR BUZZER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	20	—	0V

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK SONAR BUZZER SIGNAL CIRCUIT SHORT TO BUZZER POWER

1. Turn ignition switch OFF.
2. Check continuity between sonar control unit connector M70 terminals.

Sonar control unit connector M70		Continuity
Terminal	Terminal	
19	20	No

Is the inspection result normal?

YES >> Replace sonar buzzer. Refer to AV-647, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2729 CORNER SENSOR [FL]

DTC Logic

INFOID:0000000012849721

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT LEFT SIDE EXTERNAL SENSOR [B2729]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Front sonar sensor LH outer.

Diagnosis Procedure

INFOID:0000000012849722

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FRONT SONAR SENSOR LH OUTER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and front sonar sensor LH outer connector.
3. Check continuity between sonar control unit connector M70 and front sonar sensor LH outer connector E307.

Sonar control unit		Front sonar sensor LH outer		Continuity
Connector	Terminal	Connector	Terminal	
M70	3	E307	2	Yes
	13		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	3	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT SONAR SENSOR LH OUTER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	3	—	0V

Is the inspection result normal?

YES >> Replace front sonar sensor LH outer. Refer to AV-645, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B272A CENTER SENSOR [FL]

DTC Logic

INFOID:0000000013591346

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT LEFT SIDE INTERNAL SENSOR [B272A]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Front sonar sensor LH inner.

Diagnosis Procedure

INFOID:0000000013591347

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FRONT SONAR SENSOR LH INNER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector M70 and front sonar sensor LH inner connector E309.
3. Check continuity between sonar control unit connector M70 and front sonar sensor LH inner connector E309.

Sonar control unit		Front sonar sensor LH inner		Continuity
Connector	Terminal	Connector	Terminal	
M70	2	E309	2	Yes
	13		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	2	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT SONAR SENSOR LH INNER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	2	—	0V

Is the inspection result normal?

YES >> Replace front sonar sensor LH inner. Refer to AV-645, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B272B CENTER SENSOR [FR]

DTC Logic

INFOID:0000000013591348

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT RIGHT SIDE INTERNAL SENSOR [B272B]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Front sonar sensor RH inner.

Diagnosis Procedure

INFOID:0000000013591349

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FRONT SONAR SENSOR RH INNER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector M70 and front sonar sensor RH inner connector E310.
3. Check continuity between sonar control unit connector M70 and front sonar sensor RH inner connector E310.

Sonar control unit		Front sonar sensor RH inner		Continuity
Connector	Terminal	Connector	Terminal	
M70	1	E310	2	Yes
	13		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	1	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT SONAR SENSOR RH INNER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	1	—	0V

Is the inspection result normal?

YES >> Replace front sonar sensor RH inner. Refer to AV-645, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B272C CORNER SENSOR [FR]

DTC Logic

INFOID:0000000012849723

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT RIGHT SIDE EXTERNAL SENSOR [B272C]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Front sonar sensor RH outer.

Diagnosis Procedure

INFOID:0000000012849724

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FRONT SONAR SENSOR RH OUTER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and front sonar sensor RH outer connector.
3. Check continuity between sonar control unit connector M70 and front sonar sensor RH outer connector E308.

Sonar control unit		Front sonar sensor RH outer		Continuity
Connector	Terminal	Connector	Terminal	
M70	4	E308	2	Yes
	13		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	4	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT SONAR SENSOR RH OUTER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	4	—	0V

Is the inspection result normal?

YES >> Replace front sonar sensor RH outer. Refer to AV-645, "Removal and Installation".
NO >> Repair or replace harness or connectors.

POWER SUPPLY AND GROUND CIRCUIT

AV CONTROL UNIT

AV CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012849725

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
68	Ignition signal	29 (5A)
19	Battery power supply	15 (15A)
7	ACC power supply	65 (10A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connectors M122 and M124.
3. Check voltage between AV control unit connectors and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M124	68	—	Ignition switch: ON	Battery voltage
M122	7		Ignition switch: ACC	
	19		Ignition switch: OFF	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between AV control unit connector M122 terminal 20 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M122	20	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

DISPLAY UNIT

DISPLAY UNIT : Diagnosis Procedure

INFOID:0000000012849726

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
11	Battery power supply	15 (15A)
23	ACC power supply	65 (10A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector.
3. Check voltage between display connector M92 and ground.

Display unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M92	23	—	Ignition switch: ACC	Battery voltage
	11		Ignition switch: OFF	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between display unit connector M92 terminal 12 and ground.

Display unit		Ground	Continuity
Connector	Terminal		
M92	12	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

BOSE AMP.

BOSE AMP. : Diagnosis Procedure

INFOID:0000000012849727

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
10	Battery power supply	11 (15A)
11		12 (15A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Disconnect BOSE speaker amp. connector B129.
2. Check voltage between BOSE speaker amp. connector B129 and ground.

BOSE speaker amp.		Ground	Voltage (Approx.)
Connector	Terminal		
B129	10	—	Battery voltage
	11		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between BOSE speaker amp. connector B129 and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B129	7	—	Yes
	12		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

MULTIFUNCTION SWITCH

MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:0000000012849728

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
3	ACC power supply	65 (10A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector.
3. Check voltage between multifunction switch connector M98 terminal 3 and ground.

Mmultifunction switch		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M98	3	—	Ignition switch: ACC	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK CONTROL UNIT GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M125.
3. Check continuity between multifunction switch connector M98 terminal 9 and AV control unit connector M125 terminal 98.

Multifunction switch		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M98	9	M125	98	Yes

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness or connectors.

4.CHECK SWITCH GROUND CIRCUIT

Check continuity between multifunction switch connector M98 terminal 1 and ground.

Multifunction switch		Ground	Continuity
Connector	Terminal		
M98	1	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

VIDEO DISTRIBUTOR

VIDEO DISTRIBUTOR : Diagnosis Procedure

INFOID:0000000012849729

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
4	ACC power supply	65 (10A)
2	Battery power supply	15 (15A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect video distributor connector B24.
3. Check voltage between video distributor connector B24 and ground.

Video distributor		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
B24	2	—	Ignition switch: ACC	Battery voltage
	4		Ignition switch: OFF	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between video distributor connector B24 and ground.

Video distributor		Ground	Continuity
Connector	Terminal		
B24	1	—	Yes
	3		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

HEADREST DISPLAY UNIT

HEADREST DISPLAY UNIT : Diagnosis Procedure

INFOID:0000000012849730

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
15, 16	Battery power supply	15 (15A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Disconnect headrest display unit connector.
2. Check voltage between headrest display unit connector and ground.

Headrest display unit		Ground	Voltage (Approx.)
Connector	Terminal		
B202 (driver seat)	15, 16	—	Battery voltage
B302 (passenger seat)			

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between headrest display unit connector and ground.

Headrest display unit		Ground	Continuity
Connector	Terminal		
B202 (driver seat)	12, 31, 32	—	Yes
B302 (passenger seat)	28, 31, 32		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

AROUND VIEW MONITOR CONTROL UNIT

AROUND VIEW MONITOR CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012849731

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
3	Ignition signal	29 (5A)
4	ACC power supply	65 (10A)
2	Battery power supply	15 (15A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M96.
3. Check voltage between around view monitor control unit connector M96 and ground.

Around view monitor control unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M96	3	—	Ignition switch: ON	Battery voltage
	4		Ignition switch: ACC	
	2		Ignition switch: OFF	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between around view monitor control unit connector M96 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M96	1	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : Diagnosis Procedure

INFOID:0000000012849732

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
12	Ignition signal	29 (5A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector M70.
3. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M70	12	—	Ignition switch: ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	15	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

CENTER SPEAKER

Diagnosis Procedure

INFOID:0000000012849733

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK CENTER SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B130 and center speaker connector.
2. Check continuity between BOSE speaker amp. connector B130 and center speaker connector M110.

BOSE speaker amp.		Center speaker		Continuity
Connector	Terminal	Connector	Terminal	
B130	16	M110	1	Yes
	17		2	

3. Check continuity between BOSE speaker amp. connector B130 and ground.

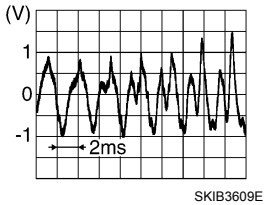
BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B130	16	—	No
	17		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK CENTER SPEAKER SIGNAL

1. Connect BOSE speaker amp. connector B130 and center speaker connector M110.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B130.

BOSE speaker amp. connector B130		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
16	17	Audio signal output	

SKIB3609E

Is the inspection result normal?

YES >> Replace center speaker. Refer to AV-628, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M122 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M122	2	B130	35	Yes
	3		36	
	11		33	
	12		34	

3. Check continuity between AV control unit connector M122 and ground.

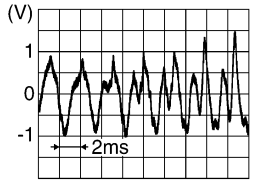
AV control unit		Ground	Continuity
Connector	Terminal		
M122	2	—	No
	3		
	11		
	12		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M122.

AV control unit connector M122		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
2	3	Audio signal output	
11	12		

SKIB3609E

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-624, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

INSTRUMENT PANEL SPEAKER/TWEETER

Diagnosis Procedure

INFOID:0000000012849734

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK INSTRUMENT PANEL TWEETER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector and suspect instrument panel tweeter connector.
2. Check continuity between BOSE speaker amp. connector and suspect instrument panel tweeter connector.

BOSE speaker amp.		Instrument panel tweeter		Continuity
Connector	Terminal	Connector	Terminal	
B130	29	M62 (LH)	1	Yes
	30		2	
B129	4	M73 (RH)	1	
	3		2	

3. Check continuity between BOSE speaker amp. connector and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B130	29	—	No
	30		
B129	4		
	3		

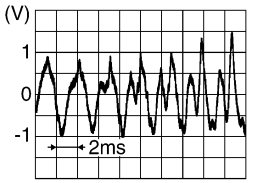
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK INSTRUMENT PANEL TWEETER SIGNAL

1. Connect BOSE speaker amp. connector and suspect instrument panel tweeter connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector.

BOSE speaker amp.		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

29	30	Audio signal output	 SKIB3609E
4	3		

Is the inspection result normal?

YES >> Replace instrument panel tweeter. Refer to AV-627, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M122 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M122	2	B130	35	Yes
	3		36	
	11		33	
	12		34	

3. Check continuity between AV control unit connector M122 and ground.

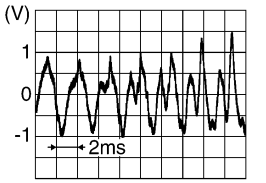
AV control unit		Ground	Continuity
Connector	Terminal		
M122	2	—	No
	3		
	11		
	12		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M122.

AV control unit connector M122		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
2	3	Audio signal output	 SKIB3609E
11	12		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-624, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

FRONT TWEETER

Diagnosis Procedure

INFOID:0000000012849735

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK FRONT TWEETER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B130 and suspect front tweeter connector.
2. Check continuity between BOSE speaker amp. connector B130 and suspect front door speaker connector.

BOSE speaker amp.		Front tweeter		Continuity
Connector	Terminal	Connector	Terminal	
B130	18	M109 (LH)	1	Yes
	19		2	
	31	M111 (RH)	1	
	32		2	

3. Check continuity between BOSE speaker amp. connector B130 and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B130	18	—	No
	19		
	31		
	32		

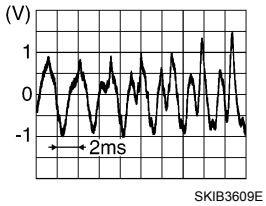
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK FRONT TWEETER SIGNAL

1. Connect BOSE speaker amp. connector B130 and suspect front tweeter connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B130.

BOSE speaker amp. connector B130		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

18	19	Audio signal output	 SKIB3609E
31	32		

Is the inspection result normal?

YES >> Replace front tweeter. Refer to AV-626, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M122 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M122	2	B130	35	Yes
	3		36	
	11		33	
	12		34	

3. Check continuity between AV control unit connector M122 and ground.

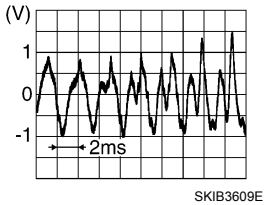
AV control unit		Ground	Continuity
Connector	Terminal		
M122	2	—	No
	3		
	11		
	12		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M122.

AV control unit connector M122		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
2	3	Audio signal output	 SKIB3609E
11	12		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-624, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

FRONT DOOR SPEAKER

Diagnosis Procedure

INFOID:0000000012849736

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK FRONT DOOR SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B130 and suspect front door speaker connector.
2. Check continuity between BOSE speaker amp. connector B130 and suspect front door speaker connector.

BOSE speaker amp.		Front door speaker		Continuity
Connector	Terminal	Connector	Terminal	
B130	18	D12 (LH)	1	Yes
	19		2	
	31	D112 (RH)	1	
	32		2	

3. Check continuity between BOSE speaker amp. connector B130 and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B130	18	—	No
	19		
	31		
	32		

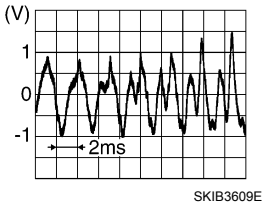
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK FRONT DOOR SPEAKER SIGNAL

1. Connect BOSE speaker amp. connector B130 and suspect front door speaker connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B130.

BOSE speaker amp. connector B130		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

18	19	Audio signal output	
31	32		

Is the inspection result normal?

YES >> Replace front door speaker. Refer to AV-625, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M122 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M122	2	B130	35	Yes
	3		36	
	11		33	
	12		34	

3. Check continuity between AV control unit connector M122 and ground.

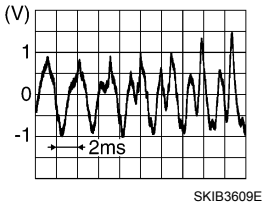
AV control unit		Ground	Continuity
Connector	Terminal		
M122	2	—	No
	3		
	11		
	12		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M122.

AV control unit connector M122		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
2	3	Audio signal output	
11	12		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-624, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

REAR DOOR SPEAKER

Diagnosis Procedure

INFOID:0000000012849737

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK REAR DOOR SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connectors and suspect rear door speaker connector.
2. Check continuity between BOSE speaker amp. connectors and suspect rear door speaker connector.

BOSE speaker amp.		Rear door speaker		Continuity
Connector	Terminal	Connector	Terminal	
B130	28	D207 (LH)	1	Yes
	15		2	
B129	14	D307 (RH)	1	
	9		2	

3. Check continuity between BOSE speaker amp. connectors and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B130	28	—	No
	15		
B129	14		
	9		

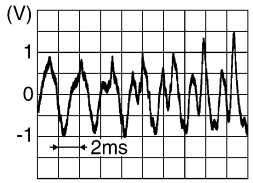
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK REAR DOOR SPEAKER SIGNAL

1. Connect BOSE speaker amp. connectors and suspect rear door speaker connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connectors.

BOSE speaker amp.			Condition	Reference value
Connector	(+)	(−)		
	Terminal	Terminal		

B130	28	15	Audio signal output	 SKIB3609E
B129	14	9		

Is the inspection result normal?

YES >> Replace rear door speaker. Refer to AV-629, "Removal and Installation".
NO >> GO TO 3.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M122 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M122	4	B130	24	Yes
	5		23	
	13		26	
	14		25	

3. Check continuity between AV control unit connector M122 and ground.

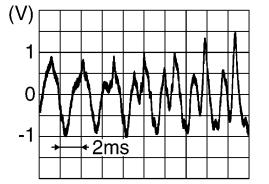
AV control unit		Ground	Continuity
Connector	Terminal		
M122	4	—	No
	5		
	13		
	14		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M122.

AV control unit connector M122		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
4	5	Audio signal output	 SKIB3609E
13	14		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-624, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

REAR SPEAKER

Diagnosis Procedure

INFOID:0000000012849738

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK REAR SIDE SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B129 and suspect rear side speaker connector.
2. Check continuity between BOSE speaker amp. connector B129 and suspect rear side speaker connector.

BOSE speaker amp.		Rear side speaker		Continuity
Connector	Terminal	Connector	Terminal	
B129	1	B1 (LH)	1	Yes
		B153 (RH)	1	
	2	B1 (LH)	2	
		B153 (RH)	2	

3. Check continuity between BOSE speaker amp. connector B129 and ground.

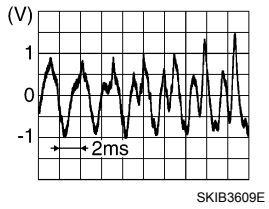
BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B129	1	—	No
	2		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK REAR SIDE SPEAKER SIGNAL

1. Connect BOSE speaker amp. connector B129 and suspect rear side speaker connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B129.

BOSE speaker amp. connector B129		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
1	2	Audio signal output	

Is the inspection result normal?

YES >> Replace rear side speaker. Refer to AV-631, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M122 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M122	4	B130	24	Yes
	5		23	
	13		26	
	14		25	

3. Check continuity between AV control unit connector M122 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M122	4	—	No
	5		
	13		
	14		

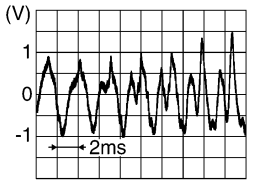
Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M122.

AV control unit connector M122		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

4	5	Audio signal output	 SKIB3609E
13	14		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-624, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

SUBWOOFER

Diagnosis Procedure

INFOID:0000000012849739

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and subwoofer connectors for the following:
- Proper connection
- Damage
- Disconnected or looses terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminal and connector.

2.CHECK SUBWOOFER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector and subwoofer connector.
2. Check continuity between BOSE speaker amp. connector and subwoofer connector.

BOSE speaker amp.		Subwoofer		Continuity
Connector	Terminal	Connector	Terminal	
B129	8	B73	1	Yes
	13		2	
	6		3	
	5		4	

3. Check continuity between BOSE speaker amp. connector and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B129	8	—	No
	13		
	6		
	5		

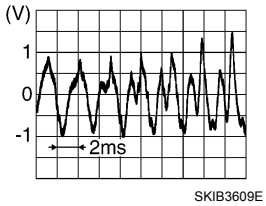
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK SUBWOOFER SIGNAL

1. Connect BOSE speaker amp. connector and subwoofer connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check the signal between the terminals of BOSE speaker amp. connector.

BOSE speaker amp. connector		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

13	8	Audio signal output	 SKIB3609E
5	6		

Is the inspection result normal?

YES >> Replace subwoofer. Refer to AV-630, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Check continuity between AV control unit connector M122 and BOSE speaker amp. connector B130.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M122	4	B130	24	Yes
	5		23	
	13		26	
	14		25	

3. Check continuity between AV control unit connector M122 and ground.

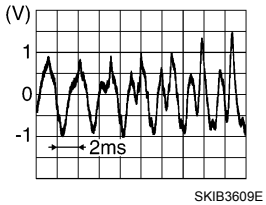
AV control unit		Ground	Continuity
Connector	Terminal		
M122	4	—	No
	5		
	13		
	14		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M122 and BOSE speaker amp. connector B130.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M122.

AV control unit connector M122		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
4	5	Audio signal output	 SKIB3609E
13	14		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-624, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

FRONT AUXILIARY INPUT JACK AUDIO SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849740

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK AUX SOUND SIGNAL CIRCUIT CONTINUITY

1. Turn ignition OFF.
2. Disconnect AV control unit connector M123 and front auxiliary input jacks connector.
3. Check continuity between AV control unit connector M123 and front auxiliary input jacks connector.

AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M123	24	M205	3	Yes
	38		1	

4. Check continuity between AV control unit connector M123 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M123	24	—	No
	38		

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AUX SOUND SIGNAL GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M123 and front auxiliary input jacks connector.

AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M123	39	M205	2	Yes

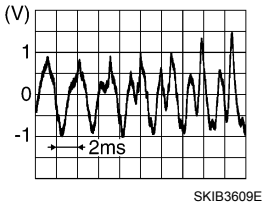
Is inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK AUX SOUND SIGNAL

1. Connect AV control unit connector M123 and front auxiliary input jacks connector.
2. Turn ignition switch to ACC.
3. Select AUX mode.
4. Check signals between AV control unit connector M123 and ground.

AV control unit connector M123		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

24	39	AUX mode selected	
38	39		

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-618, "Removal and Installation".
NO >> Replace front auxiliary input jacks. Refer to AV-633, "Removal and Installation".

RGB DIGITAL IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849741

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK RGB DIGITAL IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M140 and display unit connector M141.
3. Check continuity between AV control unit connector M140 and display unit connector M141.

AV control unit		Display unit		Continuity
Connector	Terminals	Connector	Terminals	
M140	165	M141	28	Yes
	164		27	

4. Check continuity between AV control unit connector M140 and ground.

AV control unit		Ground	Continuity
Connector	Terminals		
M140	165	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RGB DIGITAL IMAGE SIGNAL

1. Connect AV control unit connector M140.
2. Turn ignition switch ON.
3. Check signal between terminals of display unit connector M141.

Display unit connector M141		Condition	Voltage (Approx.)
(+)	(−)		
Terminal	Terminal		
28	27	Audio system is ON.	1.3 V

Is the inspection result normal?

YES >> Replace display unit. Refer to AV-623, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

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

Diagnosis Procedure

INFOID:0000000012849742

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK COMPOSITE IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M124 and display unit connector M92.
3. Check continuity between AV control unit connector M124 and display unit connector M92.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M124	56	M92	18	Yes
	55		19	

4. Check continuity between AV control unit connector M124 and ground.

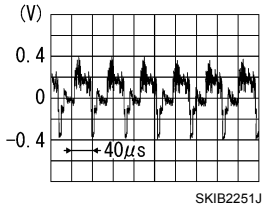
AV control unit		Ground	Continuity
Connector	Terminal		
M124	56	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMPOSITE IMAGE SIGNAL

1. Connect AV control unit connector M124 and display unit connector M92.
2. Turn ignition switch ON.
3. Check signal between terminals of AV control unit connector M124.

AV control unit connector M124		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
56	55	DVD image is displayed.	

SKIB2251J

Is the inspection result normal?

YES >> Replace display unit. Refer to AV-623, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

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

Diagnosis Procedure

INFOID:0000000012849743

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1. CHECK COMPOSITE IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M125 and video distributor connector B25.
3. Check continuity between AV control unit connector M125 and video distributor connector B25.

AV control unit		Video distributor		Continuity
Connector	Terminal	Connector	Terminal	
M125	107	B25	34	Yes
	105		33	

4. Check continuity between AV control unit connector M125 and ground.

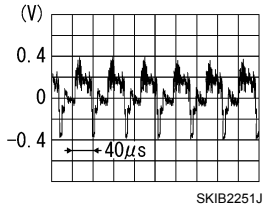
AV control unit		Ground	Continuity
Connector	Terminal		
M125	107	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2. CHECK COMPOSITE IMAGE SIGNAL

1. Connect AV control unit connector M125 and video distributor connector B25.
2. Turn ignition switch ON.
3. Check signal between terminals of video distributor connector B25.

Video distributor connector B25		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
34	33	DVD, USB or front auxiliary input jacks image is displayed on headrest display.	

SKIB2251J

Is the inspection result normal?

YES >> Replace video distributor. Refer to AV-640, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

COMPOSITE IMAGE SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO HEADREST DISPLAY UNIT)

Diagnosis Procedure

INFOID:0000000012849744

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK COMPOSITE IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect video distributor connector B24 and headrest display unit connectors.
3. Check continuity between video distributor connector B24 and headrest display unit connectors.

Video distributor		Headrest display unit		Continuity
Connector	Terminal	Connector	Terminal	
B24	32	B202 (driver seat)	5	Yes
	31		21	
	28	B302 (passenger seat)	5	Yes
	27		21	

4. Check continuity between video distributor connector B24 and ground.

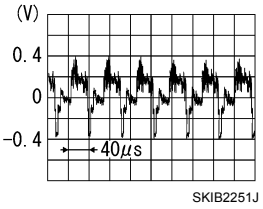
Video distributor		Ground	Continuity
Connector	Terminal		
B24	32	—	No
	28		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMPOSITE IMAGE SIGNAL

1. Connect video distributor connector B24 and headrest display unit connectors.
2. Turn ignition switch ON.
3. Check signal between terminals of headrest display unit connectors.

Headrest display unit			Condition	Reference value
Connector	(+)	(−)		
	Terminal	Terminal		
B202 (driver seat)	5	21	DVD, USB or front auxiliary input jacks image is displayed on headrest display.	
B302 (passenger seat)				

SKIB2251J

Is the inspection result normal?

YES >> Replace headrest display unit. Refer to AV-641, "Removal and Installation".
NO >> Replace video distributor. Refer to AV-640, "Removal and Installation".

AUX IMAGE SIGNAL CIRCUIT (FRONT AUXILIARY INPUT JACKS TO AV CONTROL UNIT)

Diagnosis Procedure

INFOID:0000000012849745

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1. CHECK AUX IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M125 and front auxiliary input jacks connector M205.
3. Check continuity between AV control unit connector M125 and front auxiliary input jacks connector M205.

AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M125	91	M205	7	Yes
	92		8	

4. Check continuity between AV control unit connector M125 and ground.

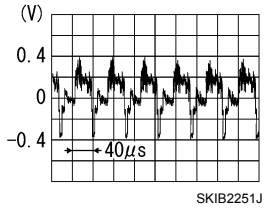
AV control unit		Ground	Continuity
Connector	Terminal		
M125	91	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2. CHECK AUX IMAGE SIGNAL

1. Connect AV control unit connector M125 and front auxiliary input jacks connector M205.
2. Turn ignition switch ON.
3. Check signal between terminals of front auxiliary input jacks connector M205.

Front auxiliary input jacks connector M205		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
7	8	Front auxiliary input jacks image is displayed.	

SKIB2251J

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-618, "Removal and Installation".
NO >> Replace front auxiliary input jacks. Refer to AV-633, "Removal and Installation".

IMAGE SWITCH SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849746

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK CONTINUITY IMAGE SWITCH SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect video distributor connector B24 and headrest display unit connectors.
3. Check continuity between video distributor connector B24 and headrest display unit connectors.

Video distributor		Headrest display unit		Continuity
Connector	Terminal	Connector	Terminal	
B24	10	B202 (driver seat)	7	Yes
	7		23	
	9	B302 (passenger seat)	7	
	5		23	

4. Check continuity between video distributor connector B24 and ground.

Video distributor		Ground	Continuity
Connector	Terminal		
B24	10	—	No
	9		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK VIDEO DISTRIBUTOR VOLTAGE

1. Connect video distributor connector B24 and headrest display unit connectors.
2. Turn ignition switch ON.
3. Check voltage between terminals of video distributor connector B24.

Video distributor connector B24		Condition	Voltage (Approx.)
(+)	(–)		
Terminal	Terminal		
10	7	DVD, USB or front auxiliary input jacks image is displayed on headrest display.	0.5 V
		DVD, USB or rear auxiliary input jacks image is displayed on headrest display.	4.5 V
9	5	DVD, USB or front auxiliary input jacks image is displayed on headrest display.	0.5 V
		DVD, USB or rear auxiliary input jacks image is displayed on headrest display.	4.5 V

Is the inspection result normal?

YES >> Replace video distributor. Refer to AV-640, "Removal and Installation".
NO >> Replace headrest display unit. Refer to AV-641, "Removal and Installation".

DISK EJECT SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849747

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK DISK EJECT SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M125 and multifunction switch connector.
3. Check continuity between AV control unit connector M125 terminal 97 and multifunction switch connector M98 terminal 14.

AV control unit		Multifunction switch		Continuity
Connector	Terminal	Connector	Terminal	
M125	97	M98	14	Yes

4. Check continuity between AV control unit connector M125 terminal 978 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M125	97		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector M125 and multifunction switch connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector M125 terminal 97 and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
(+)		(–)		
Connector	Terminal			
M125	97	—	Pressing eject switch	0 V
			Except above	5.0 V

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-618, "Removal and Installation".
NO >> Replace multifunction switch. Refer to AV-620, "Removal and Installation".

MICROPHONE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849748

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK MICROPHONE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M124 and microphone connector.
3. Check continuity between AV control unit connector M124 and microphone connector R109.

AV control unit		Microphone		Continuity
Connector	Terminal	Connector	Terminal	
M124	59	R109	3	Yes
	60		1	
	75		4	

4. Check continuity between AV control unit connector M124 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M124	59	—	No
	60		
	75		

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK MICROPHONE VCC VOLTAGE

1. Connect AV control unit connector M124.
2. Turn ignition switch ON.
3. Check voltage between terminals of AV control unit connector M124.

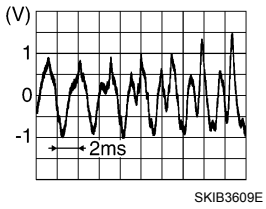
AV control unit connector M124		Voltage (Approx.)
(+)	(−)	
Terminal	Terminal	
60	59	5.0 V

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace AV control unit. Refer to AV-618, "Removal and Installation".

3.CHECK MICROPHONE SIGNAL

1. Connect microphone connector.
2. Check signal between terminals of AV control unit connector M124.

AV control unit connector M124		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
75	59	Speak into microphone.	

SKIB3609E

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-618, "Removal and Installation".
NO >> Replace microphone. Refer to AV-634, "Removal and Installation".

STEERING SWITCH

Diagnosis Procedure

INFOID:0000000012849749

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK STEERING SWITCH RESISTANCE

1. Turn ignition switch OFF.
2. Disconnect combination switch connector M149.
3. Check resistance between combination switch connector terminals.

Combination switch connector M149		Condition	Resistance Ω (Approx.)
Terminal	Terminal		
14	17	Depress SOURCE switch.	1
		Depress △ switch.	121
		Depress ▽ switch.	321
		Depress switch.	723
		Depress ENTER switch.	2023
15		Depress − switch.	1
		Depress + switch.	121
		Depress switch.	321
		Depress switch.	723
		Depress DISP switch.	2023

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace steering switch. Refer to AV-622, "Removal and Installation".

2.CHECK HARNESS BETWEEN COMBINATION SWITCH AND COMBINATION METER

1. Disconnect combination meter connector M24 and combination switch connector M30.
2. Check continuity between combination meter connector M24 and combination switch connector M30.

Combination meter		Combination switch		Continuity
Connector	Terminal	Connector	Terminal	
M24	3	M30	24	Yes
	24		33	
	4		31	

3. Check continuity between combination meter connector M24 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M24	3	—	No
	24		
	4		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3. CHECK COMBINATION SWITCH

Check continuity between combination switch connectors M30 and M149.

Combination switch				Continuity
Connector	Terminal	Connector	Terminal	
M30	24	M149	14	Yes
	31		15	
	33		17	

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace spiral cable. Refer to SR-15, "Removal and Installation".

4. CHECK HARNESS BETWEEN COMBINATION METER AND AV CONTROL UNIT

1. Disconnect AV control unit connector M122.
2. Check continuity between combination meter connector M24 and AV control unit connector M122.

Combination meter		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M24	14	M122	6	Yes
	15		16	
	16		15	

3. Check continuity between combination meter connector M24 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M24	14	—	No
	15		
	16		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK AV CONTROL UNIT VOLTAGE

1. Connect combination meter connector M24 and AV control unit connector M122.
2. Turn ignition switch ON.
3. Check voltage between terminals of AV control unit connector M122.

AV control unit M122		Voltage (Approx.)
(+)	(–)	
Terminal	Terminal	
6	15	5.0 V
16		

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-618, "Removal and Installation".
NO >> Replace combination meter. Refer to MWI-94, "Removal and Installation".

USB CONNECTOR

Diagnosis Procedure

INFOID:0000000012849750

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK USB INTERFACE HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M55 and USB interface connector M209.
3. Check continuity between AV control unit connector M55 and USB interface connector M209.

AV control unit		USB interface		Continuity
Connector	Terminal	Connector	Terminal	
M55	138	M209	1	Yes
	137		2	
	140		3	
	139		4	
	141		5	

4. Check continuity between AV control unit connector M55 and ground.

AV control unit		—	Continuity
Connector	Terminal		
M55	137	Ground	No
	139		

Is the inspection result normal?

YES >> Replace the USB interface. Refer to AV-632, "Removal and Installation".
NO >> Repair or replace harness or connectors.

FRONT CAMERA COMMUNICATION SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849751

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK COMMUNICATION SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and front camera connector E226.
3. Check continuity between around view monitor control unit connector M97 and front camera connector E226.

Around view monitor control unit		Front camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	67	E226	6	Yes

4. Check continuity between around view monitor control unit connector M97 and ground.

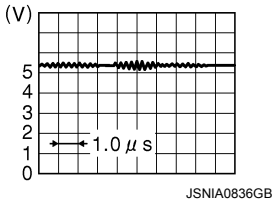
Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	67	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION SIGNAL

1. Connect around view monitor control unit connector M97 and front camera connector E226.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 and ground.

Around view monitor control unit (+)		Ground (–)	Condition	Reference value
Connector	Terminal			
M97	67	—	CAMERA switch is ON or shift position is R.	

JSNIA0836GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".
NO >> Replace front camera. Refer to AV-636, "Removal and Installation".

FRONT CAMERA IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849752

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK FRONT CAMERA IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and front camera connector E226.
3. Check continuity between around view monitor control unit connector M97 and front camera connector E226.

Around view monitor control unit		Front camera		Continuity
Connector	Terminals	Connector	Terminals	
M97	71	E226	3	Yes
	72		4	

4. Check continuity between around view monitor control unit connector M97 and ground.

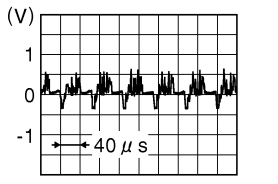
Around view monitor control unit		Ground	Continuity
Connector	Terminals		
M97	71	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT CAMERA IMAGE SIGNAL

1. Connect around view monitor control unit connector M97 and front camera connector E226.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 terminals.

Around view monitor control unit		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
71	72	CAMERA switch is ON or shift position is R.	

JSNIA0834GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".
NO >> Replace front camera. Refer to AV-636, "Removal and Installation".

REAR CAMERA COMMUNICATION SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849753

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK COMMUNICATION SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and rear view camera connector D511.
3. Check continuity between around view monitor control unit connector M97 and rear view camera connector D511.

Around view monitor control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	49	D511	4	Yes

4. Check continuity between around view monitor control unit connector M97 and ground.

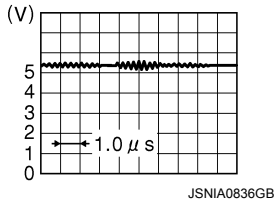
Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	49	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION SIGNAL

1. Connect around view monitor control unit connector M97 and rear view camera connector D511.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Condition	Reference value
(+)		(–)		
Connector	Terminal			
M97	49	—	CAMERA switch is ON or shift position is R.	

JSNIA0836GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".
NO >> Replace rear view camera. Refer to AV-637, "Removal and Installation".

REAR CAMERA IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849754

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and rear view camera connector D511.
3. Check continuity between around view monitor control unit connector M97 and rear view camera connector D511.

Around view monitor control unit		Rear view camera		Continuity
Connector	Terminals	Connector	Terminals	
M97	53	D511	5	Yes
	54		1	

4. Check continuity between around view monitor control unit connector M97 and ground.

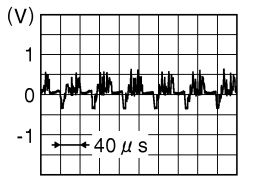
Around view monitor control unit		Ground	Continuity
Connector	Terminals		
M97	53	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR VIEW CAMERA IMAGE SIGNAL

1. Connect around view monitor control unit connector M97 and rear view camera connector D511.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 terminals.

Around view monitor control unit		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
53	54	CAMERA switch is ON or shift position is R.	

JSNIA0834GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".
NO >> Replace rear view camera. Refer to AV-637, "Removal and Installation".

SIDE CAMERA LH COMMUNICATION SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849755

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK COMMUNICATION SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and LH side camera connector D20.
3. Check continuity between around view monitor control unit connector M97 and LH side camera connector D20.

Around view monitor control unit		LH side camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	55	D20	16	Yes

4. Check continuity between around view monitor control unit connector M97 and ground.

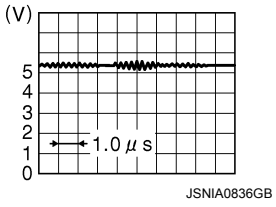
Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	55	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION SIGNAL

1. Connect around view monitor control unit connector M97 and LH side camera connector D20.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 and ground.

Around view monitor control unit (+)		Ground (–)	Condition	Reference value
Connector	Terminal			
M97	55	—	CAMERA switch is ON or shift position is R.	

JSNIA0836GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".
NO >> Replace LH side camera. Refer to AV-638, "Removal and Installation".

SIDE CAMERA LH IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849756

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK LH SIDE CAMERA IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and LH side camera connector D20.
3. Check continuity between around view monitor control unit connector M97 and LH side camera connector D20.

Around view monitor control unit		LH side camera		Continuity
Connector	Terminals	Connector	Terminals	
M97	59	D20	5	Yes
	60		17	

4. Check continuity between around view monitor control unit connector M97 and ground.

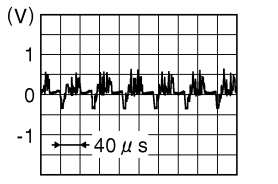
Around view monitor control unit		Ground	Continuity
Connector	Terminals		
M97	59	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK LH SIDE CAMERA IMAGE SIGNAL

1. Connect around view monitor control unit connector M97 and LH side camera connector D20.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 terminals.

Around view monitor control unit		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
59	60	CAMERA switch is ON or shift position is R.	 JSNIA0834GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".
NO >> Replace LH side camera. Refer to AV-638, "Removal and Installation".

SIDE CAMERA RH COMMUNICATION SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849757

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK COMMUNICATION SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and RH side camera connector D113.
3. Check continuity between around view monitor control unit connector M97 and fRH side camera connector D113.

Around view monitor control unit		RH side camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	61	D113	16	Yes

4. Check continuity between around view monitor control unit connector M97 and ground.

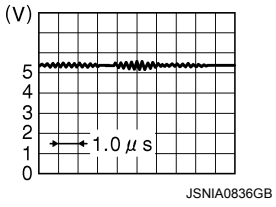
Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	61	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION SIGNAL

1. Connect around view monitor control unit connector M97 and RH side camera connector D113.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Condition	Reference value
(+)		(–)		
Connector	Terminal			
M97	61	—	CAMERA switch is ON or shift position is R.	

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Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".
NO >> Replace RH side camera. Refer to AV-638, "Removal and Installation".

SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849758

Regarding Wiring Diagram information, refer to AV-429, "Wiring Diagram".

1.CHECK RH SIDE CAMERA IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and RH side camera connector D113.
3. Check continuity between around view monitor control unit connector M97 and fRH side camera connector D113.

Around view monitor control unit		RH side camera		Continuity
Connector	Terminals	Connector	Terminals	
M97	65	D113	5	Yes
	66		17	

4. Check continuity between around view monitor control unit connector M97 and ground.

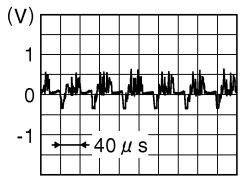
Around view monitor control unit		Ground	Continuity
Connector	Terminals		
M97	65	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RH SIDE CAMERA IMAGE SIGNAL

1. Connect around view monitor control unit connector M97 and RH side camera connector D113.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 terminals.

Around view monitor control unit		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
65	66	CAMERA switch is ON or shift position is R.	

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Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-635, "Removal and Installation".
NO >> Replace RH side camera. Refer to AV-638, "Removal and Installation".

SYMPTOM DIAGNOSIS

MULTI AV SYSTEM

Symptom Table

INFOID:0000000012849759

RELATED TO AUDIO

Symptoms	Check items	Probable malfunction location
The disk cannot be removed.	AV control unit	Malfunction in AV control unit. Refer to AV-378, "On Board Diagnosis Function".

Symptoms	Check items	Probable malfunction location
No sound comes out or the level of the sound is low.	No sound from all speakers.	• Speaker circuit shorted to ground. Refer to AV-429, "Wiring Diagram". • Bose amp. ON signal circuit malfunction. Refer to AV-523, "Diagnosis Procedure". • Bose speaker amp. power supply and ground circuits malfunction. Refer to AV-553, "BOSE AMP. : Diagnosis Procedure".
	Only a certain speaker (front door speaker LH, front door speaker RH, front tweeter LH, front tweeter RH, instrument panel tweeter LH, instrument panel tweeter RH, center speaker, rear door speaker LH, rear door speaker RH, rear side speaker LH, rear side speaker RH, subwoofer) does not output sound.	• Poor connector connection of speaker. • Sound signal circuit malfunction between AV control unit and Bose speaker amp. Refer to: - AV-567, "Diagnosis Procedure" (front door speaker). - AV-564, "Diagnosis Procedure" (front tweeter). - AV-561, "Diagnosis Procedure" (instrument panel tweeter). - AV-559, "Diagnosis Procedure" (center speaker). - AV-570, "Diagnosis Procedure" (rear door speaker). - AV-573, "Diagnosis Procedure" (rear side speaker). - AV-576, "Diagnosis Procedure" (subwoofer). • Sound signal circuit malfunction between Bose speaker amp. and speaker. Refer to: - AV-567, "Diagnosis Procedure" (front door speaker). - AV-564, "Diagnosis Procedure" (front tweeter). - AV-561, "Diagnosis Procedure" (instrument panel tweeter). - AV-559, "Diagnosis Procedure" (center speaker). - AV-570, "Diagnosis Procedure" (rear door speaker). - AV-573, "Diagnosis Procedure" (rear side speaker). - AV-576, "Diagnosis Procedure" (subwoofer). • Malfunction in speaker. Refer to: - AV-625, "Removal and Installation" (front door speaker). - AV-626, "Removal and Installation" (front tweeter). - AV-627, "Removal and Installation" (instrument panel tweeter). - AV-628, "Removal and Installation" (center speaker). - AV-629, "Removal and Installation" (rear door speaker). - AV-631, "Removal and Installation" (rear side speaker). - AV-630, "Removal and Installation" (subwoofer). • Malfunction in AV control unit. Refer to AV-378, "On Board Diagnosis Function". • Malfunction in Bose speaker amp. Replace Bose speaker amp. Refer to AV-624, "Removal and Installation".

Symptoms	Check items	Probable malfunction location
Noise is mixed with audio.	Noise comes out from all speakers.	• Malfunction in AV control unit. Refer to AV-378, "On Board Diagnosis Function". • Malfunction in Bose speaker amp. Replace Bose speaker amp. Refer to AV-624, "Removal and Installation".
	Noise comes out only from a certain speaker (front door speaker LH, front door speaker RH, front tweeter LH, front tweeter RH, instrument panel tweeter LH, instrument panel tweeter RH, center speaker, rear door speaker LH, rear door speaker RH, rear side speaker LH, rear side speaker RH, subwoofer).	• Poor connector connection of speaker. • Sound signal circuit malfunction between AV control unit and Bose speaker amp. Refer to: - AV-567, "Diagnosis Procedure" (front door speaker). - AV-564, "Diagnosis Procedure" (front tweeter). - AV-561, "Diagnosis Procedure" (instrument panel tweeter). - AV-559, "Diagnosis Procedure" (center speaker). - AV-570, "Diagnosis Procedure" (rear door speaker). - AV-573, "Diagnosis Procedure" (rear side speaker). - AV-576, "Diagnosis Procedure" (subwoofer). • Sound signal circuit malfunction between Bose speaker amp. and speaker. Refer to: - AV-567, "Diagnosis Procedure" (front door speaker). - AV-564, "Diagnosis Procedure" (front tweeter). - AV-561, "Diagnosis Procedure" (instrument panel tweeter). - AV-559, "Diagnosis Procedure" (center speaker). - AV-570, "Diagnosis Procedure" (rear door speaker). - AV-573, "Diagnosis Procedure" (rear side speaker). - AV-576, "Diagnosis Procedure" (subwoofer). • Malfunction in speaker. • Poor Installation of speaker (e.g. backlash and looseness). Refer to: - AV-625, "Removal and Installation" (front door speaker). - AV-626, "Removal and Installation" (front tweeter). - AV-627, "Removal and Installation" (instrument panel tweeter). - AV-628, "Removal and Installation" (center speaker). - AV-629, "Removal and Installation" (rear door speaker). - AV-631, "Removal and Installation" (rear side speaker). - AV-630, "Removal and Installation" (subwoofer). • Malfunction in AV control unit. Refer to AV-378, "On Board Diagnosis Function". • Malfunction in Bose speaker amp. Replace Bose speaker amp. Refer to AV-624, "Removal and Installation".
	Noise is mixed with radio only (when the vehicle hits a bump or while driving over bad roads)	Poor connector connection of antenna or antenna feeder. Refer to AV-648, "Location of Antennas".
No radio reception or poor reception.	• Other audio sounds are normal. • Any radio station cannot be received or poor reception is caused even after moving to a service area with good reception (e.g. a place with clear view and no obstacles generating external noises).	• Antenna amp. ON signal circuit malfunction. Refer to AV-522, "Diagnosis Procedure". • Poor connector connection of antenna or antenna feeder. Refer to AV-648, "Location of Antennas".

Symptoms	Check items	Probable malfunction location
No satellite radio reception.	There is malfunction in the CONSULT self diagnosis result. Refer to AV-391, "CONSULT Function".	• Malfunction in antenna, antenna feeder or AV control unit. Perform DTC diagnosis. Refer to AV-391, "CONSULT Function". • Poor continuity in antenna feeder. • Poor connector connection of antenna or antenna feeder. Refer to AV-648, "Location of Antennas".
	There is no malfunction in the CONSULT self diagnosis result. Refer to AV-391, "CONSULT Function".	• Poor continuity in antenna feeder. • Poor connector connection of antenna or antenna feeder. • Loose satellite radio antenna mounting nut. Refer to AV-648, "Location of Antennas".
Buzz/rattle sound from speaker	The majority of buzz/rattle sounds are not indicative of an issue with the speaker, usually something nearby the speaker is causing the buzz/rattle.	Refer to "SQUEAK AND RATTLE TROUBLE DIAGNOSIS" in the appropriate interior trim section.

RELATED TO HANDS-FREE PHONE

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.	Malfunction in AV control unit. Replace AV control unit. Refer to AV-618, "Removal and Installation".
Hands-free phone cannot be established.	• 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.	
The other party's voice cannot be heard by hands-free phone.	Check the "microphone speaker" in Inspection & Adjustment Mode if sound is heard.	
Originating sound is not heard by the other party with hands-free phone communication.	Sound operation function is normal.	
	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to AV-588, "Diagnosis Procedure".
The system cannot be operated.	• The voice recognition can be controlled. • Steering switch's , , and switch works, but does not work.	Steering switch malfunction. Replace steering switch. Refer to AV-622, "Removal and Installation".
	Steering switch's , , , and switches do not work.	Steering switch signal circuit malfunction. Refer to AV-590, "Diagnosis Procedure".
	All steering switches do not work.	Steering switch ground circuit malfunction. Refer to AV-590, "Diagnosis Procedure".

RELATED TO NAVIGATION

Symptoms	Check items	Probable malfunction location
Navigation system is inoperative.	Navigation malfunction.	• Malfunction in hard disk drive (HDD). • Malfunction in AV control unit. Refer to AV-378, "On Board Diagnosis Function".
	Steering switches malfunction.	Steering switch signal circuit malfunction. Refer to AV-590, "Diagnosis Procedure".
	Voice activated control malfunction.	Microphone signal circuit malfunction. Refer to AV-588, "Diagnosis Procedure". Steering switch signal circuit malfunction. Refer to AV-590, "Diagnosis Procedure".

RELATED TO AROUND VIEW MONITOR

Symptoms	Check items	Probable malfunction location
Display does not switch to camera image when “CAMERA” switch is pressed or selector lever is in R (reverse).	Around view monitor control unit malfunction.	Around view monitor control unit power supply and ground circuits malfunction. Refer to AV-556, "AROUND VIEW MONITOR CONTROL UNIT : Diagnosis Procedure".
	AV communication circuits malfunction.	AV communication circuits malfunction between around view monitor control unit and AV control unit. Refer to AV-421, "Reference Value".
	Camera image signal circuit (output) malfunction.	Camera image signal circuit (output) malfunction between around view monitor control unit and display unit. Refer to AV-421, "Reference Value".
Display switches to camera image when “CAMERA” switch is pressed or selector lever is in R (reverse), but all views are not displayed.	Camera image signal circuit (input) malfunction.	Camera image signal circuit (input) malfunction between camera and around view monitor control unit. Refer to: • AV-594, "Diagnosis Procedure" (front camera). • AV-596, "Diagnosis Procedure" (rear view camera). • AV-598, "Diagnosis Procedure" (side camera LH). • AV-600, "Diagnosis Procedure" (side camera RH).
	Camera communication signal circuits malfunction.	Camera communication circuits malfunction between camera and around view monitor control unit. Refer to: • AV-593, "Diagnosis Procedure" (front camera). • AV-595, "Diagnosis Procedure" (rear view camera). • AV-597, "Diagnosis Procedure" (side camera LH). • AV-599, "Diagnosis Procedure" (side camera RH).
Camera image is rolling.	Camera image signal circuit (output) malfunction.	Camera image signal circuit (output) malfunction between around view monitor control unit and display unit. Refer to AV-421, "Reference Value".
Display does not switch to rear view monitor even when selector lever is in R (reverse).	Reverse signal circuit malfunction.	Reverse signal circuit between BCM and around view monitor control unit. Refer to AV-421, "Reference Value".
Predicted course line display in front view and rear view is malfunctioning.	Steering angle sensor malfunction.	Predicted course line center position is malfunctioning. Refer to AV-483, "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Work Procedure".

Symptoms	Check items	Probable malfunction location
Front view and front of birds-eye view is not displayed.	Front camera malfunction.	Front camera power supply and ground circuits malfunction. Refer to AV-526, "Diagnosis Procedure".
	Front camera image signal circuit malfunction.	Front camera image signal circuit malfunction between front camera and around view monitor control unit. Refer to AV-594, "Diagnosis Procedure".
	Front camera communication signal circuit malfunction.	Front camera communication signal circuit malfunction between front camera and around view monitor control unit. Refer to AV-593, "Diagnosis Procedure".
Rear view and rear of birds-eye view is not displayed.	Rear view camera malfunction.	Rear view camera power supply and ground circuits malfunction. Refer to AV-526, "Diagnosis Procedure".
	Rear view camera image signal circuit malfunction.	Rear view camera image signal circuit malfunction between rear view camera and around view monitor control unit. Refer to AV-596, "Diagnosis Procedure".
	Rear view camera communication signal circuit malfunction.	Rear view camera communication signal circuit malfunction between rear view camera and around view monitor control unit. Refer to AV-595, "Diagnosis Procedure".
Front-side and driver side of birds-eye view is not displayed.	Side camera LH malfunction.	Side camera LH power supply and ground circuits malfunction. Refer to AV-526, "Diagnosis Procedure".
	Side camera LH image signal circuit malfunction.	Side camera LH image signal circuit malfunction between side camera LH and around view monitor control unit. Refer to AV-598, "Diagnosis Procedure".
	Side camera LH communication signal circuit malfunction.	Side camera LH communication signal circuit malfunction between side camera LH and around view monitor control unit. Refer to AV-597, "Diagnosis Procedure".
Front-side and passenger side of birds-eye view is not displayed.	Side camera RH malfunction.	Side camera RH power supply and ground circuits malfunction. Refer to AV-526, "Diagnosis Procedure".
	Side camera RH image signal circuit malfunction.	Side camera RH image signal circuit malfunction between side camera RH and around view monitor control unit. Refer to AV-600, "Diagnosis Procedure".
	Side camera RH communication signal circuit malfunction.	Side camera RH communication signal circuit malfunction between side camera RH and around view monitor control unit. Refer to AV-599, "Diagnosis Procedure".
Selector lever is in a position other than R (reverse) and front, rear, front-side and Birds-Eye views are displayed even as vehicle speed increases.	Vehicle speed signal malfunction.	Vehicle speed signal malfunction between ABS actuator and electric unit (control unit) and around view monitor control unit. Refer to LAN-28, "Trouble Diagnosis Flow Chart".

RELATED TO CAMERA ASSISTANCE SONAR

Symptoms	Check items	Probable malfunction location
Malfunction is detected in only 1 indicator (Always displayed in red).	Sonar sensor circuit malfunction.	Sonar sensor circuit malfunction between sonar sensor and sonar control unit. Refer to: • AV-549, "Diagnosis Procedure" (front LH inner). • AV-550, "Diagnosis Procedure" (front RH inner). • AV-548, "Diagnosis Procedure" (front LH outer). • AV-551, "Diagnosis Procedure" (front RH outer). • AV-542, "Diagnosis Procedure" (rear LH inner). • AV-543, "Diagnosis Procedure" (rear RH inner). • AV-541, "Diagnosis Procedure" (rear LH outer). • AV-544, "Diagnosis Procedure" (rear RH outer).
	Sonar sensor malfunction.	• Inspect if front licence plate (if equipped) is bent and obstructing the sensor area. • Malfunction in sonar sensor. Refer to AV-645, "Removal and Installation".
Malfunction is detected in all 5 indicators (Always displayed in red).	Sonar control unit malfunction.	Sonar control unit power supply and ground circuits malfunction. Refer to AV-557, "SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : Diagnosis Procedure".
	CAN communication malfunction.	CAN communication malfunction between sonar control unit and combination meter. Refer to LAN-28, "Trouble Diagnosis Flow Chart".

RELATED TO REAR DISPLAY (HEADREST-MOUNTED)

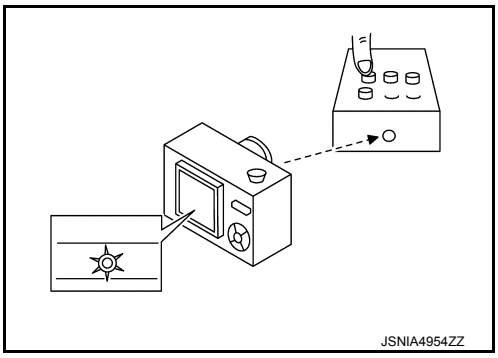
Perform diagnosis of the power supply and ground circuits of the following items before starting diagnosis by symptom:

- Video distributor. Refer to AV-555, "VIDEO DISTRIBUTOR : Diagnosis Procedure".
- Headrest display unit. Refer to AV-556, "HEADREST DISPLAY UNIT : Diagnosis Procedure".

Symptom	Check item		Possible malfunction location/Action to take
Video is not shown on the headrest display unit screen.	Use the touch button in front display to switch video images on the headrest display unit.	Video is shown.	Operate with the remote to see if videos can be switched.
		Video is not shown.	Replace headrest display unit. Refer to AV-641, "Removal and Installation".
Video is not shown on the headrest display unit (passenger seat). Headrest display unit (driver seat) is normal.	Perform “AV Comm Diagnosis” within “On Board Diagnosis Function”. Refer to AV-378, "On Board Diagnosis Function".		• AV communication circuits between headrest display unit (driver seat) and headrest displaying (passenger seat). • Replace headrest display unit. Refer to AV-641, "Removal and Installation".
Headrest display unit inoperative with the remote.	All keys inoperative.	• Check battery polarity. • Replace battery.	• Check with a remote from the same vehicle family. • Check infrared* of the luminescent part (LED) of the remote.
	Some keys inoperative.	• Check with a remote from the same vehicle family. • Check infrared* of the luminescent part (LED) of the remote.	The function corresponding to the remote operation is not included (this is not a malfunction).
Headrest display unit screen is black.	Play a DVD.	Video is not shown.	Switch from AUX mode to DVD mode and check video.
		Screen is dark.	Adjust screen for image quality (this is not a malfunction).
		Screen is black.	Replace headrest display unit. Refer to AV-641, "Removal and Installation".

Symptom	Check item	Possible malfunction location/Action to take
Video shown on headrest display unit screen becomes distorted or rolls up/down	Adjust the color settings using the display screen menu items.	If the symptom does not change, replace headrest display unit. Refer to AV-641, "Removal and Installation".
Headrest display unit screen is blue.	—	Replace headrest display unit. Refer to AV-641, "Removal and Installation".

*: To check infrared, check light of the luminescent part (LED) through the lens of digital camera when operating the remote.



RELATED TO HEADPHONES (HEADREST-MOUNTED)

Symptom	Check item		Possible malfunction location/Action to take
Audio cannot be heard from headphones.	• Turn ON the headrest display unit. • Switch the slide switch on the left side of the headphones.	Audio cannot be heard.	Check power supply of headphones.
Headphones cannot be turned ON.	• Battery polarity. • Battery poor contact. • Battery replacement.	Power is ON (power indicator lamp: ON).	This is not a malfunction.
		Power cannot be turned ON (power indicator lamp: OFF).	Replace headphones.

NORMAL OPERATING CONDITION

Description

INFOID:0000000012849760

RELATED TO NOISE

The majority of the audio concerns are the result of outside causes (bad CD, electromagnetic interference, etc.).
The following noise results from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources. It is not a malfunction.

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from the waves sent directly from the broadcast station arriving at the antenna at a different time from the waves which reflect off mountains or buildings.

The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check if noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment, and determine the cause.

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

Type of Noise and Possible Cause

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

RELATED TO HANDS-FREE PHONE

Symptom	Cause and Counter measure
Does not recognize cellular phone connection (No connection is displayed on the display at the guide).	Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module. Refer to “RELATED TO HANDS-FREE PHONE (Check Compatibility)” in AV-601, "Symptom Table".
Cannot use hands-free phone.	Customer will not be able to use a hands-free phone under the following conditions: • The vehicle is outside of the telephone service area. • The vehicle is in an area where it is difficult to receive radio waves; such as in a tunnel, in an underground parking garage, near a tall building or in a mountainous area. • The cellular phone is locked to prevent it from being dialed. **NOTE:** While a cellular phone is connected through the Bluetooth® wireless connection, the battery power of the cellular phone may discharge quicker than usual. The Bluetooth® Hands-Free Phone System cannot charge cellular phones.

Symptom	Cause and Counter measure
The other party's voice cannot be heard by hands-free phone.	When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person's voice during a call.
Poor sound quality.	Do not place the cellular phone in an area surrounded by metal or far away from the in-vehicle phone module to prevent tone quality degradation and wireless connection disruption.

RELATED TO NAVIGATION

Basic Operation

Symptom	Cause	Remedy
No image is shown.	Display brightness adjustment is set fully to DARK side.	Adjust the display brightness.
No guide sound is heard. Audio guide volume is too low or too high.	Volume control is set to OFF, MIN or MAX.	Adjust the audio guide volume.
	Audio guidance is not available while the vehicle is driving on a dark pink route.	System is not malfunctioning.
Screen is too dark. Motion of the image is too slow.	Temperature inside the vehicle is low.	Wait until the temperature inside the vehicle reaches the proper temperature.
Small black or bright spots appear on the screen.	Symptom peculiar to a liquid crystal display (display unit).	System is not malfunction.

Vehicle Mark

Symptom	Cause	Remedy
Map screen and BIRDVIEW™ Name of the place vary with the screen.	Some thinning of the character data is done to prevent the display becoming to complex. In some cases and in some locations, the display contents may differ. The same place name, street name, etc. may not be displayed every time on account of the data processing.	System is not malfunctioning.
Vehicle mark is not positioned correctly.	Vehicle is transferred by ferry or by towing after its ignition switch is turned to OFF.	Drive the vehicle for a while in the GPS satellite signal receiving condition.
Screen will not switch to nighttime mode after the lighting switch is turned ON.	The daytime screen is selected by the "SWITCH SCREENS" when the last time the screen dimming setting is done. Switching between daytime/nighttime screen may be inhibited by the automatic illumination adjustment function.	Perform screen dimming and select the nighttime screen by "SWITCH SCREENS".
Map screen will not scroll in accordance with the vehicle travel.	Current location is not displayed.	Press "MAP" button to display the current location.
Vehicle mark will not be shown.	Current location is not displayed.	Press "MAP" button to display the current location.
Accuracy indicator (GPS satellite mark) on the map screen stays gray.	GPS satellite signal is intercepted because the vehicle is in or behind a building.	Move the vehicle out to an open space.
	GPS satellite signal cannot be received because an obstacle is placed on top of the instrument panel.	Do not place anything on top of the meter display (instrument panel).
	GPS satellites are not visible from current location.	Wait until GPS satellites are visible by moving the vehicle.

Symptom	Cause	Remedy
Vehicle location accuracy is low.	Accuracy indicator (GPS satellite mark) on the map screen stays gray.	Current location is not determined.
	Vehicle speed setting by the vehicle speed pulse has been deviated (advanced or retarded) from the actual vehicle speed because tire chain is fitted or the system has been used on another vehicle.	Drive the vehicle for a while [for approx. 30 minutes at approx. 30 km/h (19 MPH)] and the deviation will be automatically adjusted. If advancement or retard still occur, perform the distance adjustment by CONFIRMATION/ADJUSTMENT mode of diagnosis function.
	Map data has error or omission. (Vehicle mark is always deviated to the same position.)	As a rule, an updated map DVD–ROM will be released once a year.

Destination, Passing Points and Menu Items Cannot be Selected/Set

Symptom	Cause	Remedy
Destination cannot be set.	Destination to be set is on an expressway.	Set the destination on an ordinary road.
Passing point is not searched when re-searching the route.	The vehicle has already passed the passing point, or the system judged so.	To include the passing points that have been passed into the route again, set the route again.
Route information will not be displayed.	Route searching has not been done.	Set the destination and perform route searching.
	Vehicle mark is not on the recommended route.	Drive on the recommended route.
	Route guide is turned OFF.	Turn route guide ON.
	Route information is not available on the dark pink route.	System is not malfunctioning.
After the route searching, no guide sign will appear as the vehicle goes near the entrance/exit to the toll road.	Vehicle mark is not on the recommended route. (On the display, only guide signs related to the recommended route will be shown.)	Drive on the recommended route.
Automatic route searching is not possible.	Vehicle is driving on a highway (gray route), or no recommended route is available.	Drive on a road to be searched. Or re–search the route manually. In this case, however, the whole route will be searched.
Performed automatic detour search (or detour search). However, the result is the same as that of the previous search.	Performed search with every conditions considered. However, the result is the same as that of the previous search.	System is not malfunctioning.
Passing points cannot be set.	More than five passing points were set.	Passing points can be set up to five. To stop at more than five points, perform sharing in several steps.
When setting the route, the starting point cannot be selected.	The current vehicle location is always set as the starting point of a route.	System is not malfunctioning.
Some menu items cannot be selected.	The vehicle is being driven.	Stop the vehicle at a safe place and then operate the system.

Voice Guide

Symptom	Cause	Remedy
Voice guide will not operate.	Note: Voice guide is only available at intersections that satisfy certain conditions (indicated by ● on the map). Therefore, guidance may not be given even when the route on the map changes direction.	System is not malfunctioning.
	The vehicle is not on the recommended route.	Return to the recommended route or re-search the route.
	Voice guide is turned OFF.	Turn voice guide ON.
	Route guide is turned OFF.	Turn route guide ON.
Voice guide does not match the actual road pattern.	Voice guide may vary with the direction to which the vehicle is turn and the connection of the road to other roads.	Drive in conformity to the actual traffic rules.

Route Search

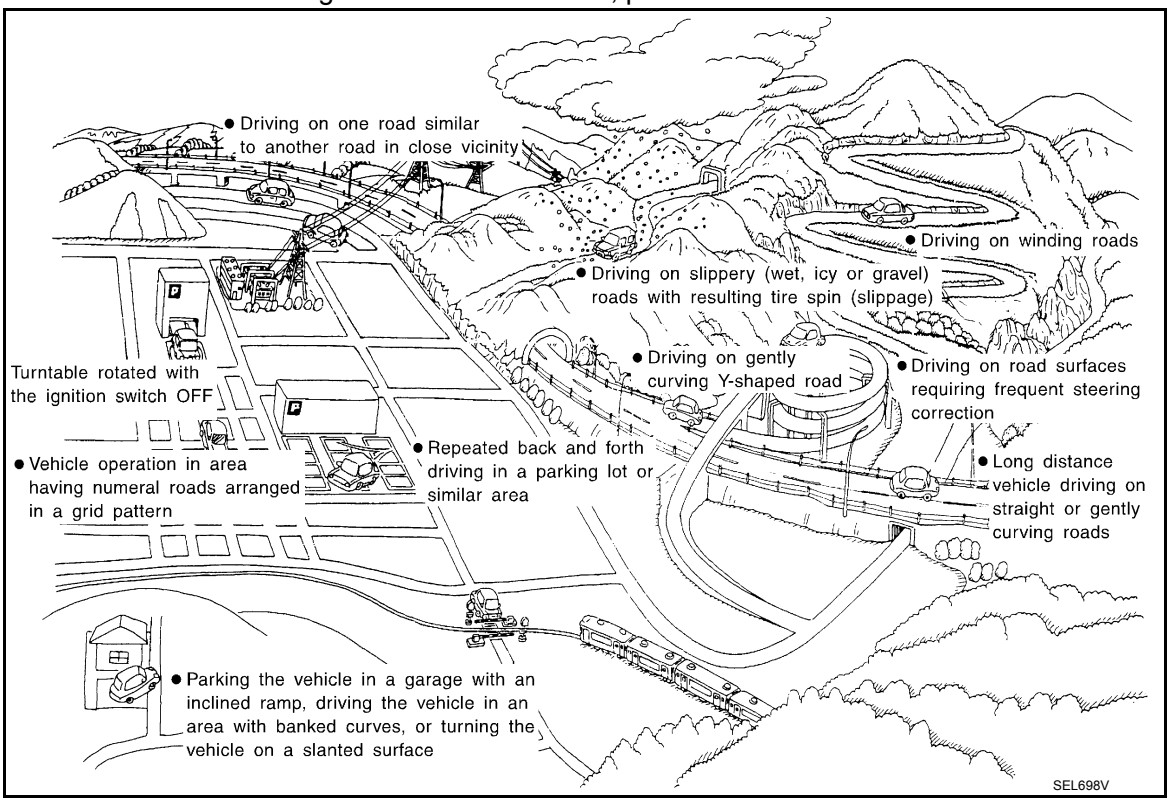
Symptom	Cause	Remedy
No route is shown.	No road to be searched is found around the destination.	Find wider road (orange road or wider) nearby and reset the destination and passing points onto it. Take care of the traveling direction when there are separate up and down roads.
	Starting point and the destination are too close.	Set the destination at more distant point.
	Conditional traffic regulation (day of the week/ time of the day) is set at the area around the current location or the destination.	Turn the time-regulating search conditions OFF. Turn “Avoid regulation time” in the search conditions OFF.
Indicated route is intermittent.	In some areas, highways (gray routes) are not used for the search(Note)Therefore, the route to the current location or the passing points may be intermittent.	System is not malfunctioning.
When the vehicle has passed the recommended route, it is deleted from the screen.	A recommended route is controlled by each section. When the vehicle has passed the passing point 1, then the map data from the starting point up to the passing point 1 will be deleted. (The data may remain undeleted in some area.)	System is not malfunctioning.
Detouring route is recommended.	In some areas, highways (gray routes) are not used for the search. (Note). Therefore, detour route may be recommended.	Set the route closer to the basic route (gray route).
	A detour route may be shown when some traffic regulation (one-way traffic, etc.) is set at the area around the starting point or the destination.	Slightly move the starting point or the destination, or set the passing point on the route of your choice.
	In the area where highways (gray routes) are used for the search, left turn has priority around the current location and the destination (passing points). For this reason, the recommended route may be detouring.	System is not malfunctioning.
Landmarks on the map do not match the actual ones.	This can be happen due to omission or error in the map data.	As a rule, an updated map DVD-ROM will be released once a year. Wait until the latest map has become available.
Recommended route is far from the starting point, passing points, and destination.	Starting point, passing points, and destination of the route guide were set far from the desired points because route searching data around these area were not stored.	Reset the destination onto the road nearby. If this road is one of the highways (gray routes), an ordinary road nearby may be displayed as the recommended route.

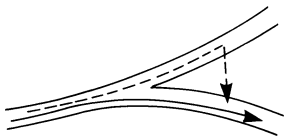
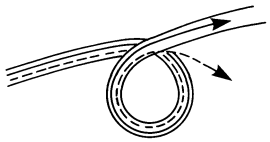
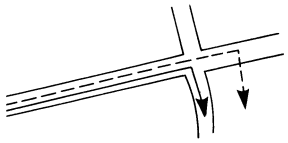
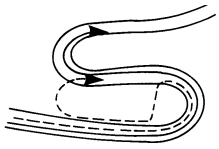
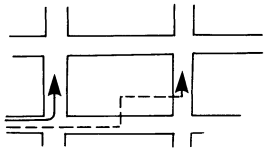
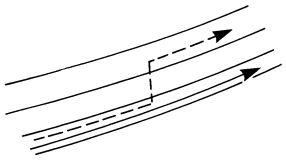
NOTE:

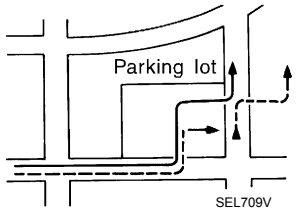
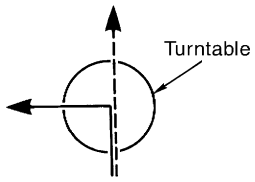
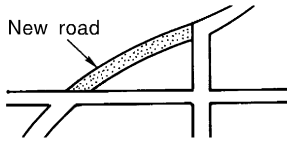
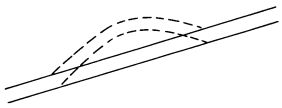
Except for the ordinance-designated cities. (Malfunctioning areas may be changed in the updated map disc.)

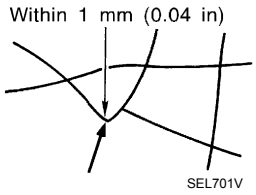
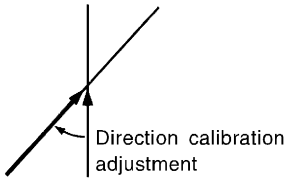
Examples of Current-Location Mark Displacement

Vehicle's travel amount is calculated by reading its travel distance and turning angle. Therefore, if the vehicle is driven in the following manner, an error will occur in the vehicle's current location display. If correct location has not been restored after driving the vehicle for a while, perform location correction.



Cause (condition) –: While driving ooo: Display		Driving condition	Remarks (correction, etc.)
Road configuration	Y–intersections  ELK0192D	At a Y intersection or similar gradual division of roads, an error in the direction of travel deduced by the sensor may result in the current-location mark appearing on the wrong road.	If after travelling about 10 km (6 miles) the correct location has not been restored, perform location correction and, if necessary, direction correction.
	Spiral roads  ELK0193D	When driving on a large, continuous spiral road (such as loop bridge), turning angle error is accumulated and the vehicle mark may deviate from the correct location.	
	Straight roads  ELK0194D	When driving on a long, straight road and slow curve without stopping, map-matching does not work effectively enough and distance errors may accumulate. As a result, the vehicle mark may deviate from the correct location when the vehicle is turned at a corner.	
	Zigzag roads  ELK0195D	When driving on a zigzag road, the map may be matched to other roads in the similar direction nearby at every turn, and the vehicle mark may deviate from the correct location.	
	Roads laid out in a grid pattern  ELK0196D	When driving where roads are laid out in a grid pattern, or where many roads are running in the similar direction nearby, the map may be matched to them by mistake and the vehicle mark may deviate from the correct location.	
	Parallel roads  ELK0197D	When two roads are running in parallel (such as highway and sideway), the map may be matched to the other road by mistake and the vehicle mark may deviate from the correct location.	

Cause (condition) –: While driving ooo: Display		Driving condition	Remarks (correction, etc.)
Place	In a parking lot  SEL709V	When driving in a parking lot, or other location where there are no roads on the map, matching may place the vehicle mark on a nearby road. When the vehicle returns to the road, the vehicle mark may have deviated from the correct location. When driving in circle or turning the steering wheel repeatedly, direction errors accumulate, and the vehicle mark may deviate from the correct location.	If after travelling about 10 km (6 miles) the correct location has not been restored, perform location correction and, if necessary, direction correction.
	Turntable  SEL710V	When the ignition switch is OFF, the navigation system cannot get the signal from the gyroscope (angular speed sensor). Therefore, the displayed direction may be wrong and the correct road may not be easily returned to after rotating the vehicle on a turntable with the ignition OFF.	
	Slippery roads	On snow, wet roads, gravel, or other roads where tires may slip easily, accumulated mileage errors may cause the vehicle mark to deviate from the correct road.	
	Slopes	When parking in sloped garages, when travelling on banked roads, or in other cases where the vehicle turns when tilted, an error in the turning angle will occur, and the vehicle mark may deviate from the road.	
Map data	Road not displayed on the map screen  SEL699V	When driving on new roads or other roads not displayed on the map screen, map matching does not function correctly and matches the location to a nearby road. When the vehicle returns to a road which is on the map, the vehicle mark may deviate from the correct road.	
	Different road pattern (Changed due to repair)  ELK0201D	If the road pattern stored in the map data and the actual road pattern are different, map matching does not function correctly and matches the location to a nearby road. The vehicle mark may deviate from the correct road.	
Vehicle	Use of tire chains	When tire chains are used, the mileage is not correctly detected, and the vehicle mark may deviate from the correct road.	Drive the vehicle for a while. If the distance still deviates, adjust it by using the distance adjustment function. (If the tire chain is removed, recover the original value.)

Cause (condition) –: While driving ooo: Display		Driving condition	Remarks (correction, etc.)
Precautions for driving	Just after the engine is started	If the vehicle is driven just after the engine is started when the gyroscope (angular speed sensor) correction is not completed, the vehicle can lose its direction and may have deviated from the correct location.	Wait for a short while before driving after starting the engine.
	Continuous driving without stopping	When driving long distances without stopping, direction errors may accumulate, and the current-location mark may deviate from the correct road.	Stop and adjust the orientation.
	Abusive driving	Spinning the wheels or engaging in other kinds of abusive driving may result in the system being unable perform correct detection, and may cause the vehicle mark to deviate from the correct road.	If after travelling about 10 km (6 miles) the correct location has not been restored, perform location correction and, if necessary, direction correction.
How to correct location	Position correction accuracy  SEL701V	If the accuracy of location settings is poor, accuracy may be reduced when the correct road cannot be found, particularly in places where there are many roads.	Enter in the road displayed on the screen with an accuracy of approx. 1mm. Caution: Whenever possible, use detailed map for the correction.
	Direction when location is corrected  SEL702V	If the accuracy of location settings during correction is poor, accuracy may be reduced afterwards.	Perform direction correction.

Location Correction by Map-Matching is Slow

- The map-matching function needs to refer to the data of the surrounding area. It is necessary to drive some distance for the function to work.
- Because map-matching operates on this principle, when there are many roads running in similar directions in the surrounding area, no matching determination may be made. The location may not be corrected until some special feature is found.

Name of Road is Not Displayed

The current road name may not be displayed if there are no road names displayed on the map screen.

Contents of Display Differ for Birdview™ and the (Flat) Map Screen

Difference of the BIRDVIEW™ screen from the flat map screen are as follows.

- The current place name displays names which are primarily in the direction of vehicle travel.
- The amount of time before the vehicle travel or turn angle is updated on the screen is longer than for the (flat) map display.
- The conditions for display of place names, roads, and other data are different for nearby areas and for more distant areas.
- Some thinning of the character data is done to prevent the display becoming too complex. In some cases and in some locations, the display contents may differ.
- The same place name, street name, etc. may be displayed multiple times.

Vehicle Mark Shows a Position Which is Completely Wrong

In the following cases, the vehicle mark may appear on completely different position in the map depending on the GPS satellite signal receiving conditions. In this case, perform location correction and direction correction.

- When location correction has not been done
  - If the receiving conditions of the GPS satellite signal is poor, if the vehicle mark becomes out of place, it may move to a completely different location and not come back if location correction is not done. The position will be corrected if the GPS signal can be received.
- When the vehicle has traveled by ferry, or when the vehicle has been being towed

- Because calculation of the current location cannot be done when traveling with the ignition off, for example when traveling by ferry or when being towed, the location before travel is displayed. If the precise location can be detected with GPS, the location will be corrected.

Vehicle Mark Jumps

In the following cases, the vehicle mark may appear to jump as a result of automatic correction of the current location.

- When map matching has been done
- If the current location and the vehicle mark are different when map matching is done, the vehicle mark may seem to jump. At this time, the location may be “corrected” to the wrong road or to a location which is not on a road.
- When GPS location correction has been done
- If the current location and the vehicle mark are different when the location is corrected using GPS measurements, the vehicle mark may seem to jump. At this time, the location may be “corrected” to a location which is not on a road.

Vehicle Mark is in a River or Sea

The navigation system moves the vehicle mark with no distinction between land and rivers or sea. If the vehicle mark is somehow out of place, it may appear that the vehicle is driving in a river or the sea.

Vehicle Mark Automatically Rotates

The system wrongly memorizes the rotating status as stopping when the ignition switch is turned ON with the turntable rotating. That causes the vehicle mark to rotate when the vehicle is stopped.

When Driving on Same Road, Sometimes Vehicle Mark is in Right Place and Sometimes it is in Wrong Place

The conditions of the GPS antenna (GPS data) and gyroscope (angular speed sensor) change gradually. Depending on the road traveled and the operation of the steering wheel, the location detection results will be different. Therefore, even on a road on which the location has never been wrong, conditions may cause the vehicle mark to deviate.

RELATED TO SONAR

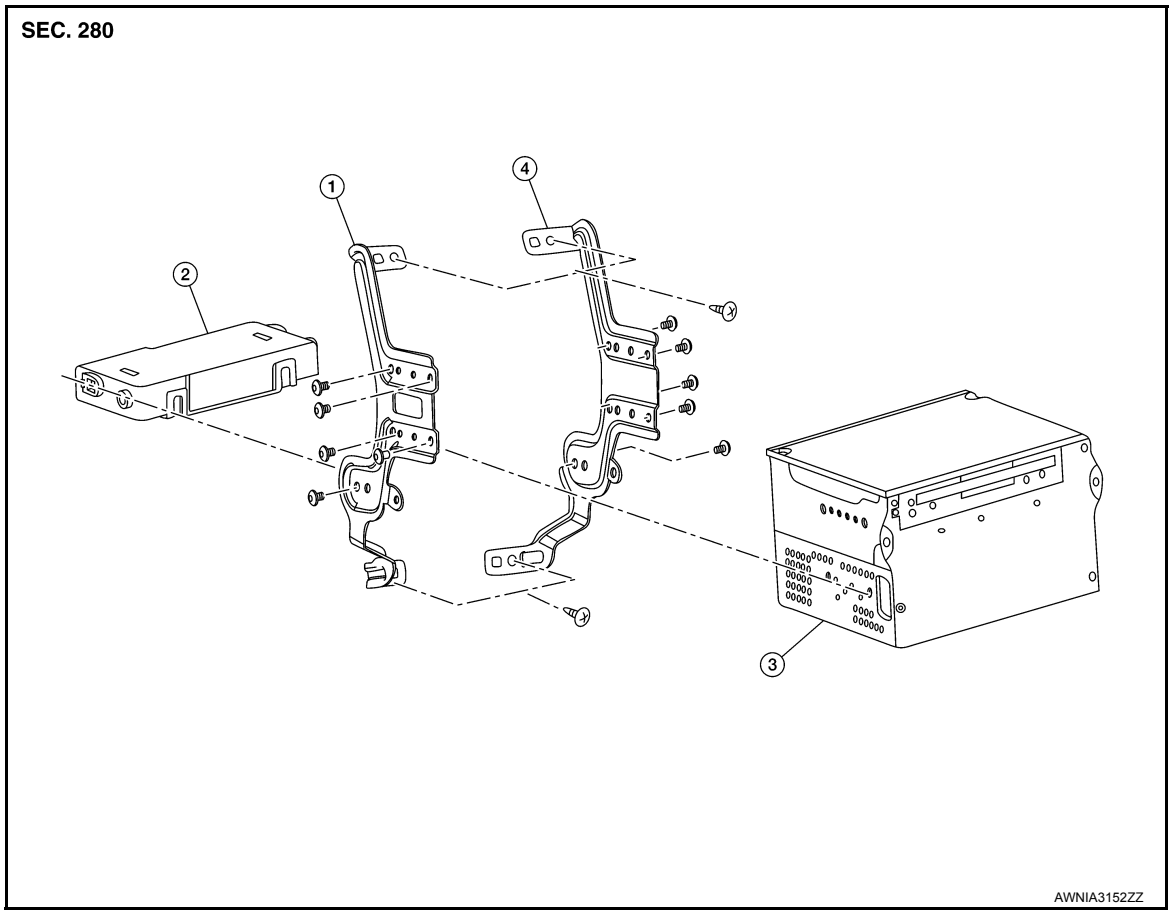
Symptom	Possible cause
Unstable object detection	• The vehicle is on a rough surface, such as stone or gravel. • When used in poor weather conditions, such as heavy snow/rain strong wind. • When subjected to an ultrasonic noise generated from exhaust muffler or brakes. • When left standing in the hot sun or in a cold climate. • When the surface of the sensor is frozen or covered with snow/dirt/moisture. • When a retrofitted xenon lamp, lighted license plate, or harness is close to the sensor body or sensor harness. • When subjected to loop coil noises generated from a vehicle detector placed at an intersection or coin parking area. • When front license plate (if equipped) is bent and obstructing the sensor detection area.
Object undetectable	• Air-containing objects, such as cloth, cotton, glass wool, dust, and snow. • Thin objects, such as rope, chain and wire. • Smooth-faced objects placed in a slanting direction. • Fast-moving small animals. • A corner of an angular object. **NOTE:** If the sensor detection part is scratched, obstacles cannot be detected.

REMOVAL AND INSTALLATION

AV CONTROL UNIT

Exploded View

INFOID:0000000012849761



1. AV control unit bracket (LH)
2. A/C auto amp.
3. AV control unit
4. AV control unit bracket (RH)

Removal and Installation

INFOID:0000000012849762

REMOVAL

CAUTION:

- **Remove battery terminal and AV control unit after a lapse of 30 seconds or more after turning the ignition switch OFF.**
- **Before replacing AV control unit, perform "READ CONFIGURATION" to save current vehicle specification. Refer to AV-477, "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description".**

NOTE:

After the ignition switch is turned OFF, the AV control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

1. Disconnect the negative battery terminal. Refer to PG-147, "Removal and Installation".
2. Remove cluster lid C upper. Refer to IP-23, "CLUSTER LID C UPPER : Removal and Installation".
3. Remove the screws, then pull out the AV control unit.
4. Disconnect the harness connectors from the AV control unit and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **When replacing AV control unit, perform "WRITE CONFIGURATION". Refer to AV-77, "CONFIGURATION (AV CONTROL UNIT) : Description".**

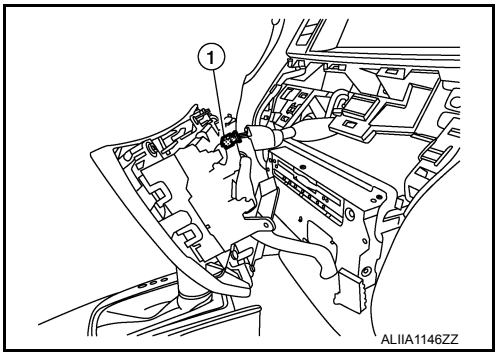
MULTIFUNCTION SWITCH

Removal and Installation

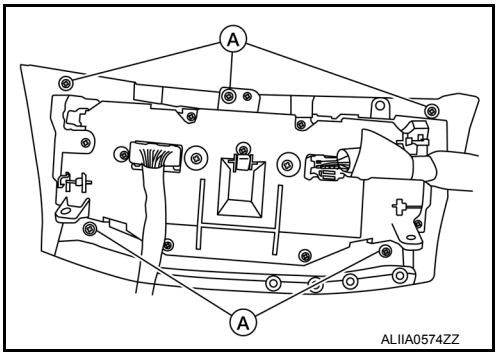
INFOID:0000000013522866

REMOVAL

1. Remove preset switch. Refer to AV-621, "Removal and Installation".
2. Remove screws securing multifunction switch.
3. Release pawls and detach multifunction switch using suitable tool.
4. Disconnect harness connector (1) from multifunction switch.



5. Remove multifunction switch from instrument panel assembly.
6. Remove screws (A) securing multifunction switch.



INSTALLATION

Installation is in the reverse order of removal.

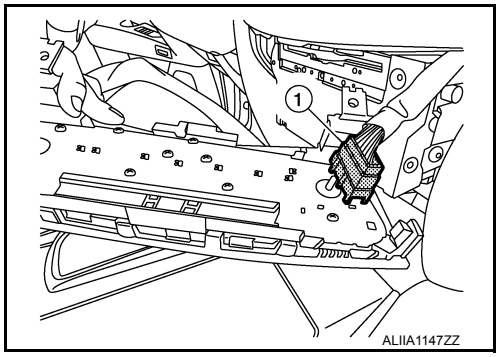
PRESET SWITCH

Removal and Installation

INFOID:0000000013522867

REMOVAL

1. Remove cluster lid C lower. Refer to IP-22, "CLUSTER LID C LOWER : Removal and Installation".
2. Remove cluster lid C. Refer to IP-22, "CLUSTER LID C : Removal and Installation".
3. Remove preset switch lower screws.
4. Release pawls and detach preset switch from instrument panel assembly using suitable tool.
5. Disconnect harness connector (1) from preset switch.



6. Remove preset switch from instrument panel assembly.

INSTALLATION

Installation is in the reverse order of removal.

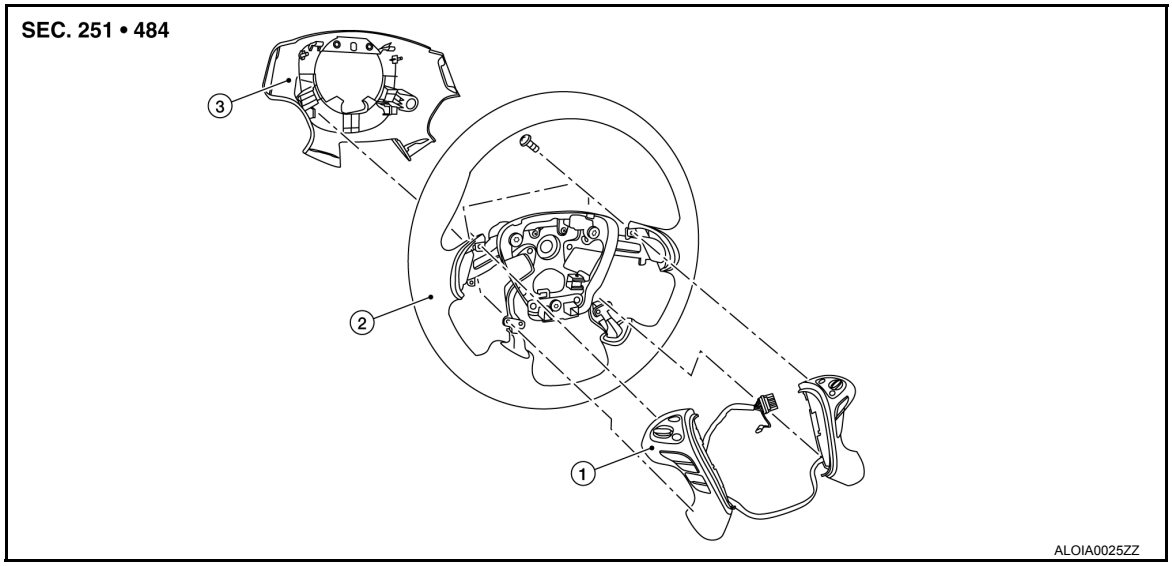
CAUTION:

When replacing preset switch, perform "Write Configuration". Refer to AV-477, "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description" and AV-478, "CONFIGURATION (AV CONTROL UNIT) : Description".

STEERING SWITCH

Exploded View

INFOID:0000000012849764



1. Steering switch
2. Steering wheel
3. Steering wheel rear finisher

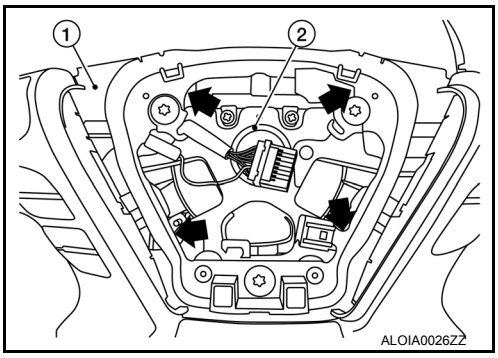
Removal and Installation

INFOID:0000000012849765

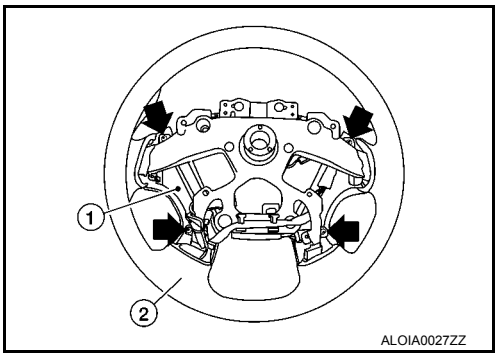
REMOVAL

NOTE:
The steering switch is serviced as an assembly.

1. Remove steering wheel. Refer to ST-50, "Removal and Installation".
2. Release pawls and remove steering wheel rear finisher (1) from steering wheel (2).



3. Remove steering switch screws.
4. Remove steering switch (1) from steering wheel (2).



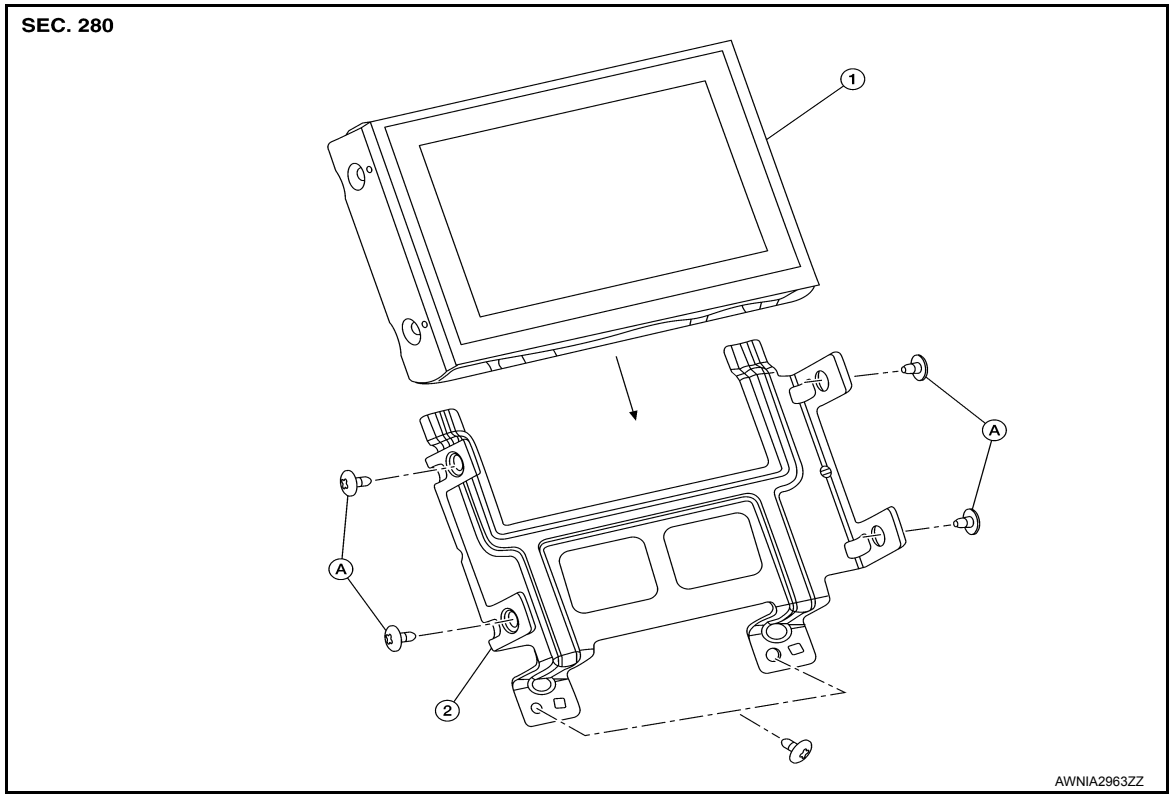
INSTALLATION

Installation is in the reverse order of removal.

DISPLAY UNIT

Exploded View

INFOID:0000000013523315



1. Display unit
2. Display unit bracket
A. Display unit screws

Removal and Installation

INFOID:0000000013523316

REMOVAL

1. Remove cluster lid D. Refer to IP-24, "Removal and Installation".
2. Remove the display unit screws, then pull out the display unit and bracket.
3. Disconnect harness connector from the display unit, then remove the display unit and bracket.
4. Remove the display unit brackets screws and the display unit from the display unit bracket (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

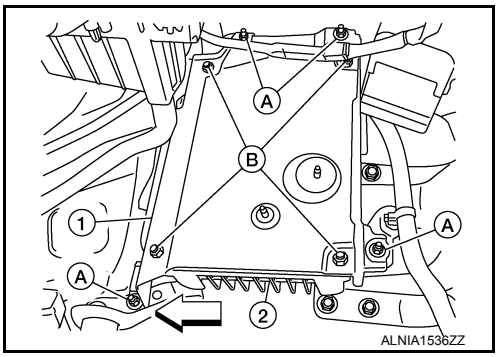
BOSE® SPEAKER AMP

Removal and Installation

INFOID:0000000013522868

REMOVAL

1. Remove rear ventilator duct lower. Refer to VTL-14, "REAR VENTILATOR DUCT LOWER : Removal and Installation".
2. Remove Bose® speaker amp bracket nuts (A).
   ⇦: Front
3. Remove Bose® speaker amp (2) and bracket (1) as an assembly.
4. Remove bolts (B) and Bose® speaker amp (2) from Bose® speaker amp bracket (1).



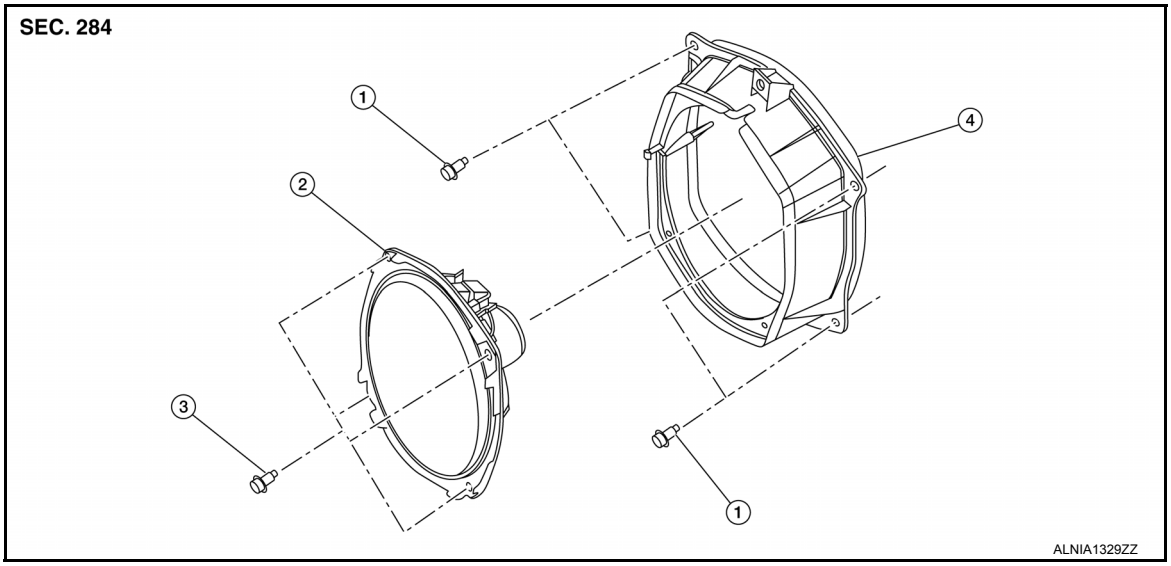
INSTALLATION

Installation is in the reverse order of removal.

FRONT DOOR SPEAKER

Exploded View

INFOID:0000000012849769



1. Speaker bracket bolt
2. Front door speaker
3. Speaker bolt
4. Speaker bracket

Removal and Installation

INFOID:0000000012849770

REMOVAL

1. Remove front door finisher. Refer to INT-15, "Removal and Installation".
2. Remove front door speaker bolts.
3. Disconnect harness connector from front door speaker, then remove front door speaker from speaker bracket.
4. Remove speaker bracket bolts (if necessary).
5. Remove speaker bracket from front door (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

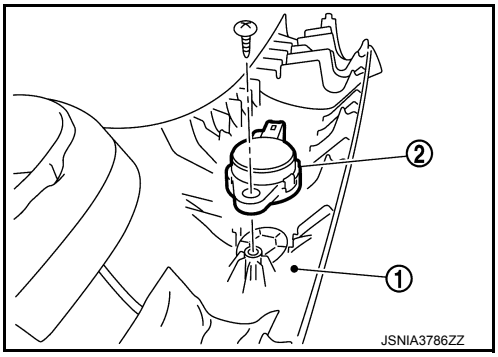
FRONT TWEETER

Removal and Installation

INFOID:0000000012849771

REMOVAL

1. Remove front pillar finisher. Refer to INT-19, "FRONT PILLAR FINISHER : Removal and Installation"
2. Remove two front tweeter screws.
3. Remove front tweeter (2) from front pillar finisher (1).



INSTALLATION

Installation is in the reverse order of removal.

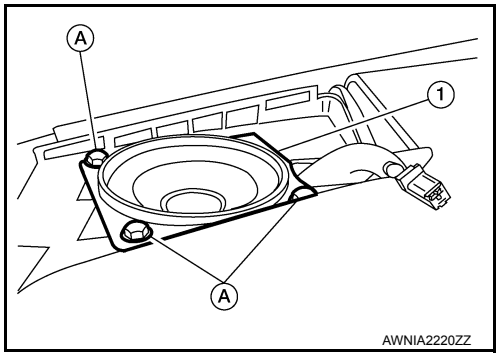
INSTRUMENT PANEL SPEAKER/TWEETER

Removal and Installation

INFOID:0000000012849772

REMOVAL

1. Remove instrument panel tweeter grille. Refer to IP-14, "Exploded View".
2. Remove the screws (A), then pull out the instrument panel tweeter (1).
3. Disconnect the harness connector from the instrument panel tweeter (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

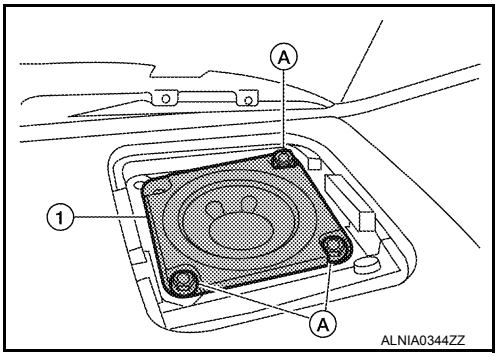
CENTER SPEAKER

Removal and Installation

INFOID:0000000012849773

REMOVAL

1. Remove center speaker grille. Refer to IP-14, "Exploded View".
2. Remove the center speaker bolts (A).
3. Pull out the center speaker (1), disconnect harness connector, then remove center speaker.



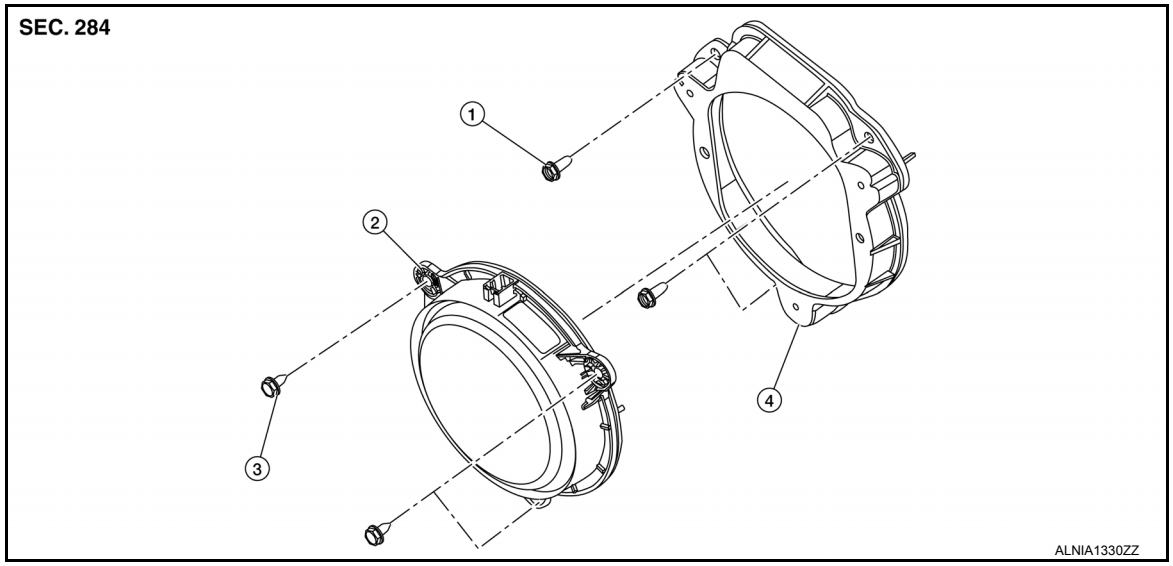
INSTALLATION

Installation is in the reverse order of removal.

REAR DOOR SPEAKER

Exploded View

INFOID:0000000012849774



1. Speaker bracket bolt
2. Rear door speaker
3. Speaker bolt
4. Speaker bracket

Removal and Installation

INFOID:0000000012849775

REMOVAL

1. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
2. Remove rear door speaker bolts.
3. Disconnect harness connector from the rear door speaker, then remove rear door speaker from speaker bracket.
4. Remove speaker bracket bolts (if necessary).
5. Remove rear door speaker bracket (if necessary).

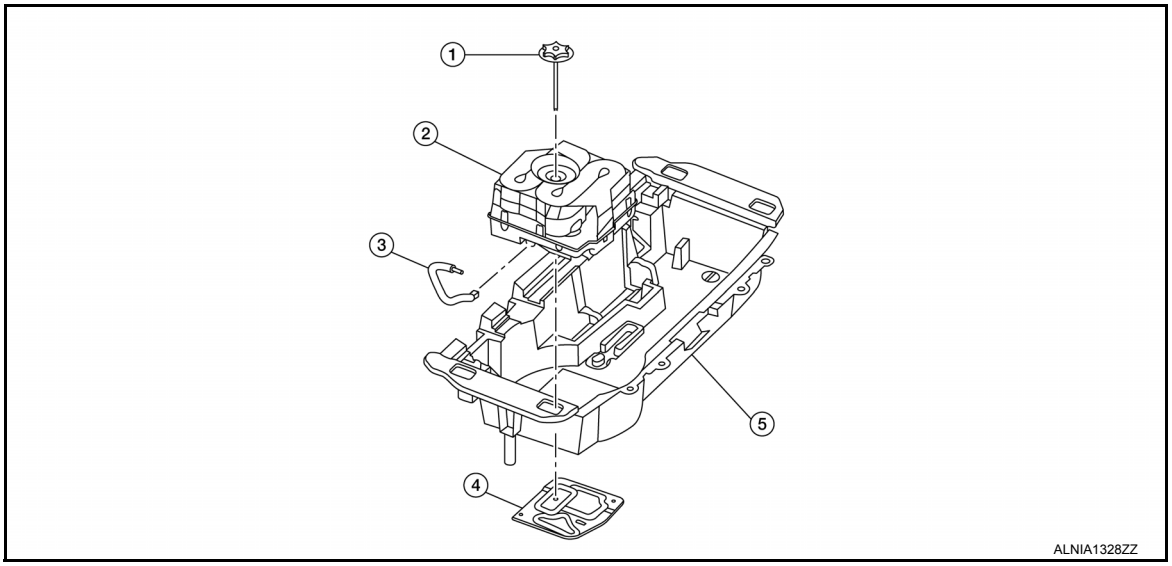
INSTALLATION

Installation is in the reverse order of removal.

SUBWOOFER

Exploded View

INFOID:0000000012849777



1. Subwoofer clamp
2. Subwoofer
3. Harness
4. Bracket
5. Rear storage box

Removal and Installation

INFOID:0000000012849778

REMOVAL

1. Open the storage box lid.
2. Remove the subwoofer clamp.
3. Lift subwoofer to disconnect harness connector, then remove subwoofer.

INSTALLATION

Installation is in the reverse order of removal.

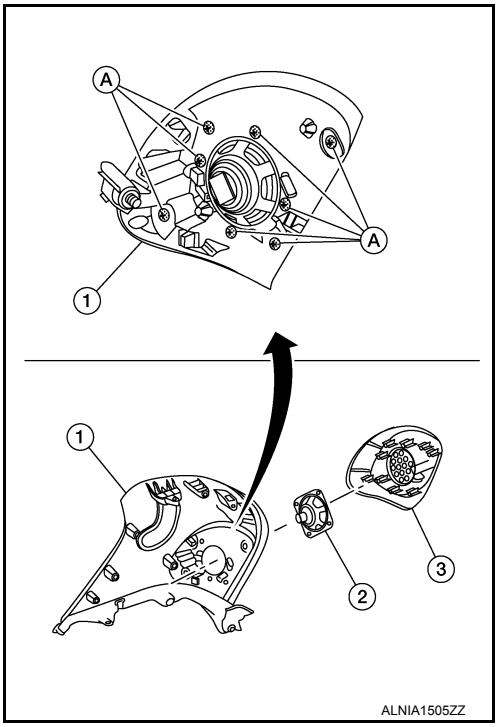
REAR SPEAKERS

Removal and Installation

INFOID:0000000013522869

REMOVAL

1. Remove back pillar finisher. Refer to INT-32, "BACK PILLAR FINISHER : Removal and Installation".
2. Remove rear speaker screws (A) from back pillar finisher (1).
3. Remove the rear speaker (2) and grille (3).



INSTALLATION

Installation is in the reverse order of removal.

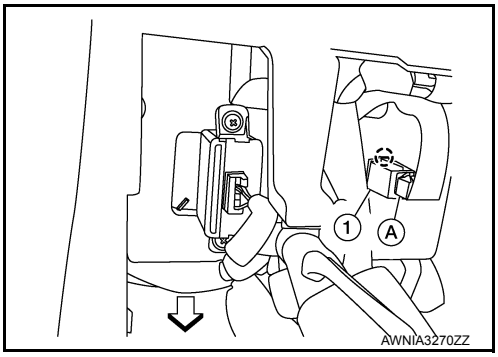
USB INTERFACE

Removal and Installation

INFOID:0000000013522870

REMOVAL

1. Remove shift selector finisher. Refer to IP-18, "Exploded View".
2. Disconnect harness connector (A) from the USB interface (1).
3. Release the pawl from the back of USB interface (1), then remove the USB interface by pulling out from the front side.
   ◌: Pawl



INSTALLATION

Installation is in the reverse order of removal.

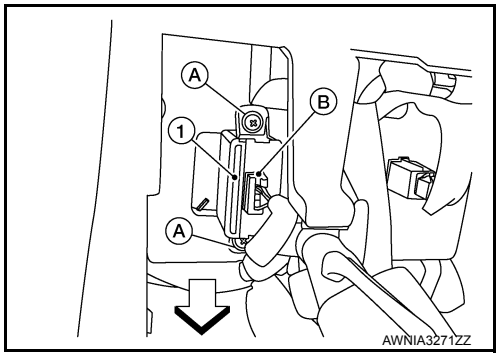
FRONT AUXILIARY INPUT JACKS

Removal and Installation

INFOID:0000000013522871

REMOVAL

1. Remove shift selector finisher. Refer to IP-18, "Exploded View".
2. Disconnect harness connector (B) from the front auxiliary input jack (1).
3. Remove front auxiliary input jack screws (A) and front auxiliary input jack (1).
   ⇦: Front



INSTALLATION

Installation is in the reverse order of removal.

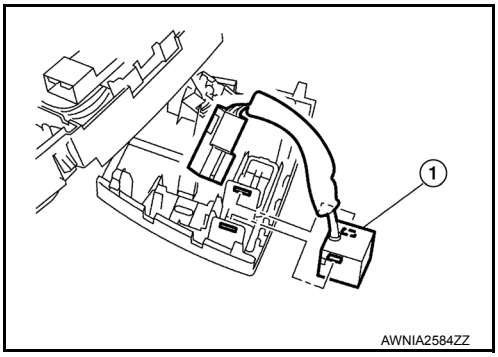
MICROPHONE

Removal and Installation

INFOID:0000000012849780

REMOVAL

1. Remove the front room/map lamp assembly. Refer to INL-64, "Removal and Installation".
2. Release the pawls, then remove the microphone (1) from the front room/map lamp assembly.
   CAUTION:
   Carefully handle the pawls that retain the microphone to avoid damaging.



INSTALLATION

Installation is in the reverse order of removal.

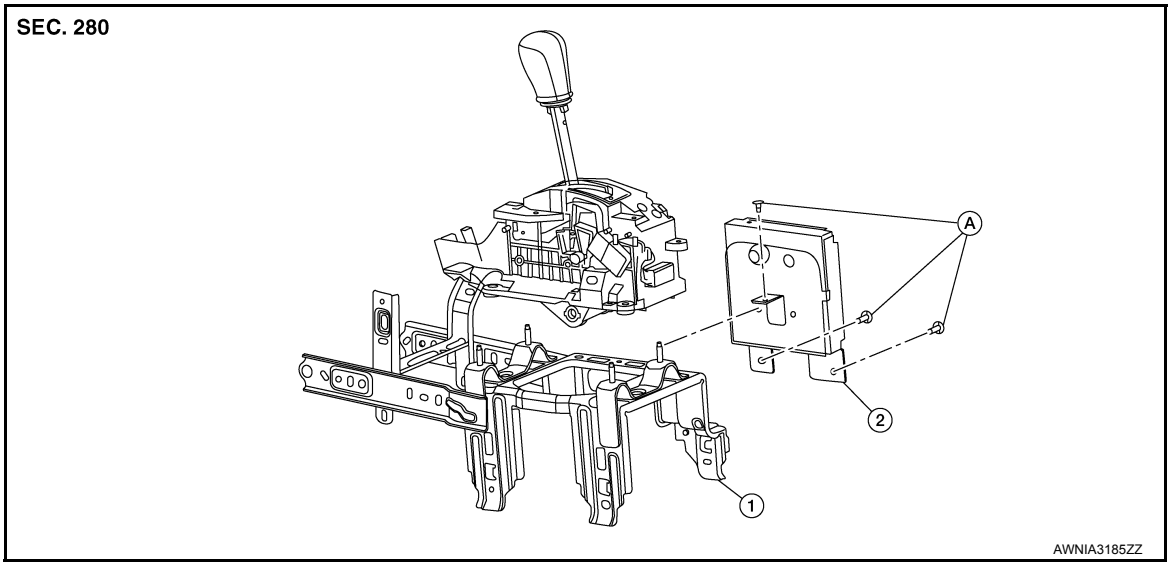
NOTE:

Check the microphone for looseness after installation.

AROUND VIEW MONITOR CONTROL UNIT

Exploded View

INFOID:0000000013522872



1. Bracket
2. Around view monitor control unit
A. Screw

Removal and Installation

INFOID:0000000013522873

REMOVAL

CAUTION:

Before replacing around view monitor control unit, save or print current vehicle specification with CONSULT configuration before replacement. Refer to AV-479, "ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT : Description".

1. Remove center console assembly. Refer to IP-18, "Removal and Installation".
2. Remove the around view monitor control unit screws.
3. Disconnect harness connector from around view monitor control unit and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **When replacing around view monitor control unit, you must perform "After Replace ECU" with CONSULT. Refer to AV-479, "ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT : Description".**
- **Perform camera image calibration. Refer to AV-484, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".**

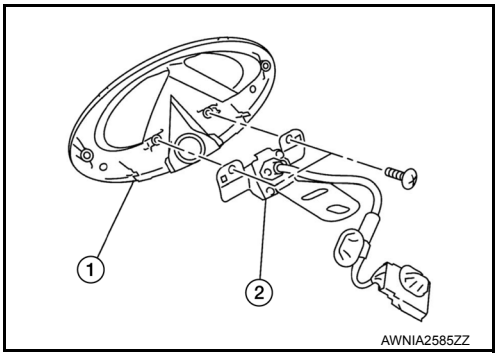
FRONT CAMERA

Removal and Installation

INFOID:0000000012849784

REMOVAL

1. Remove front grille. Refer to EXT-23, "Removal and Installation".
2. Remove front camera screws and front camera (2) from front emblem (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to AV-484, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".

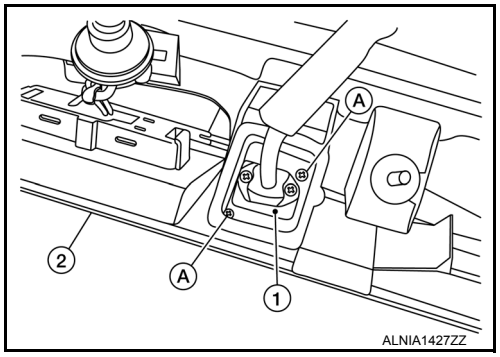
REAR VIEW CAMERA

Removal and Installation

INFOID:0000000012849785

REMOVAL

1. Remove back door outer upper finisher. Refer to EXT-45, "Removal and Installation".
2. Remove rear view camera screws (A), then remove rear view camera (1) from the back door outer upper finisher (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to AV-484, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".

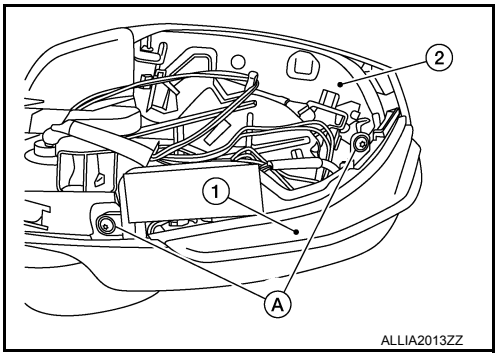
SIDE CAMERA

Removal and Installation

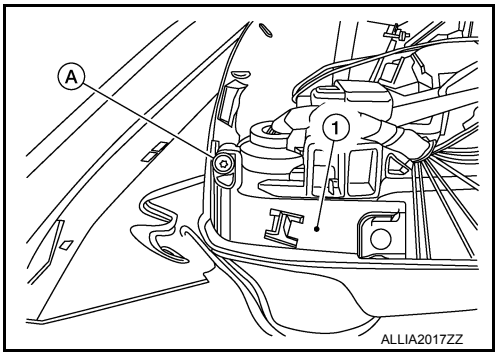
INFOID:0000000013522874

REMOVAL

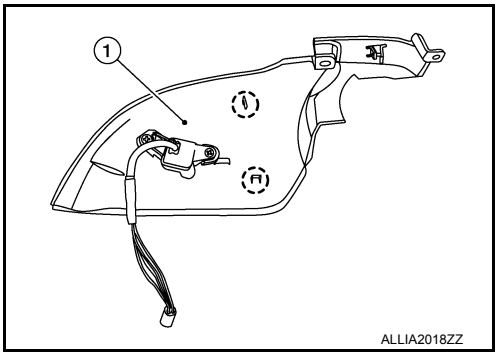
1. Remove the door mirror rear finisher. Refer to MIR-37, "Removal and Installation".
2. Remove the screws (A) and remove the turn signal lamp (1) from the door mirror (2).



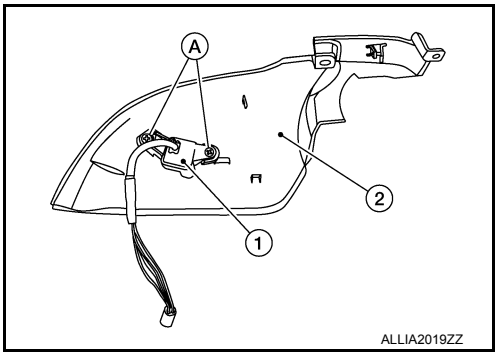
3. Remove the screw (A) from camera finisher (1).



4. Using a suitable tool release pawls and remove camera finisher (1).
   ◌: Pawl



5. Remove the screws (A) and remove side camera (1) from camera finisher (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to AV-484, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".

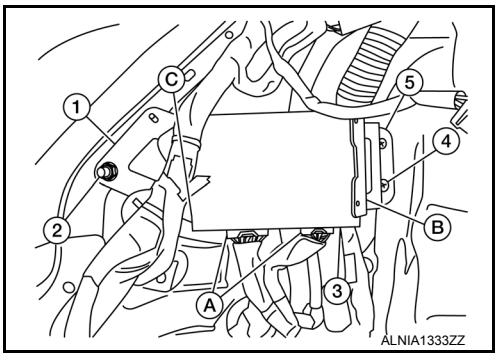
VIDEO DISTRIBUTOR

Removal and Installation

INFOID:0000000012849787

REMOVAL

1. Remove luggage side lower finisher. Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
2. Disconnect video distributor harness connectors (A).
3. Remove video distributor nuts (2) and bolts (4).
4. Remove video distributor (3) and brackets (1) (5) from the vehicle as a single unit.
5. Remove screws (B) (C), then remove video distributor (3).



INSTALLATION

Installation is in the reverse order of removal.

HEADREST DISPLAY UNIT

Removal and Installation

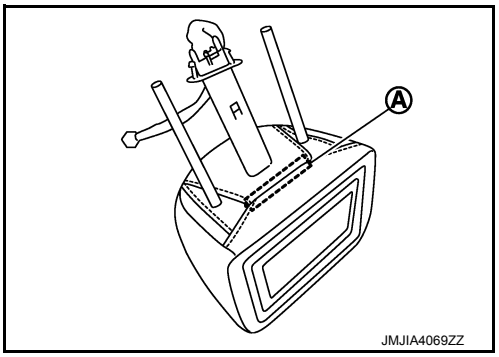
INFOID:0000000012849788

REMOVAL

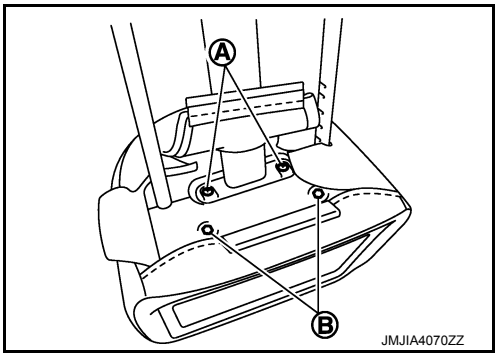
CAUTION:

- **Do not press panel surface of display (glass area).**
- **Do not press or pull out the movable part of display.**

1. Remove the headrest trim retainer (A).

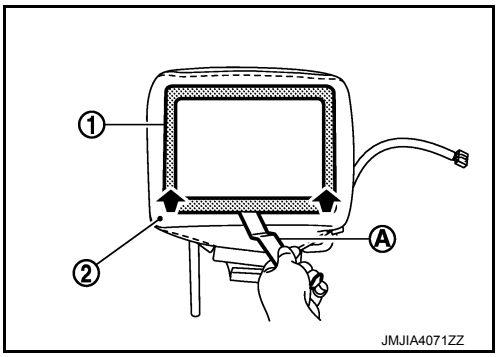


2. Remove the headrest display harness and upper tube screws (A), then remove headrest display unit bolts (B).

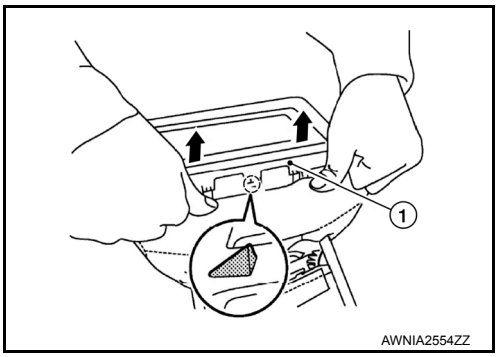


3. Remove the headrest display escutcheon and headrest display.

a. Insert a suitable tool (A) between lower side of headrest display escutcheon (1) and headrest trim (2) and pull out lower side of escutcheon.



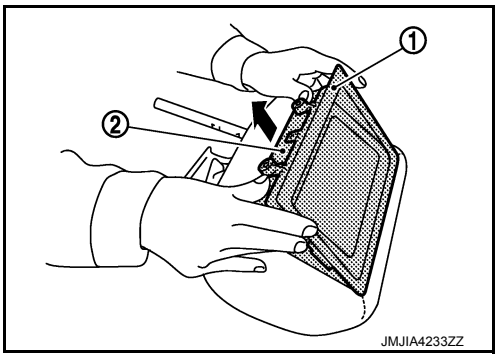
b. Pull out headrest display escutcheon (1) to the position that pawl is visible and disengage pawl.
(◌): Pawl



c. Pull out lower side of headrest display escutcheon from headrest.

CAUTION:
Be careful not damage pawls on upper side headrest display escutcheon.

d. Pull downward and remove headrest display escutcheon (1) and headrest display unit (2) by pulling them out and removing pins on upper side of display.



e. Disconnect inner harness connector.
f. Press headrest display escutcheon to the headrest display unit side. Disconnect pawls on upper side and remove headrest display escutcheon.

4. Remove the headrest display harness upper tube from headrest trim.

INSTALLATION

Installation is in the reverse order of removal.

REAR AUXILIARY INPUT JACKS

Removal and Installation

INFOID:0000000012849789

REMOVAL

1. Remove rear center ventilator duct. Refer to VTL-12, "REAR CENTER VENTILATOR DUCT : Removal and Installation".
2. Remove rear auxiliary input jack screws and rear auxiliary input jack.

INSTALLATION

Installation is in the reverse order of removal.

SONAR CONTROL UNIT

Removal and Installation

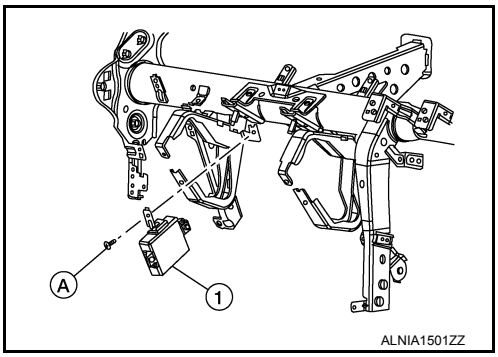
INFOID:0000000013522875

REMOVAL

CAUTION:

When replacing sonar control unit, save or print current vehicle specification with CONSULT configuration before replacement. Refer to AV-482, "CONFIGURATION (SONAR CONTROL UNIT) : Description".

1. Remove instrument lower panel LH. Refer to IP-25, "Removal and Installation".
2. Disconnect harness connector from the sonar control unit.
3. Remove screw (A) and the sonar control unit (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

When replacing sonar control unit, you must perform "After Replace ECU" with CONSULT. Refer to AV-481, "ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT : Description".

SONAR SENSOR

Removal and Installation

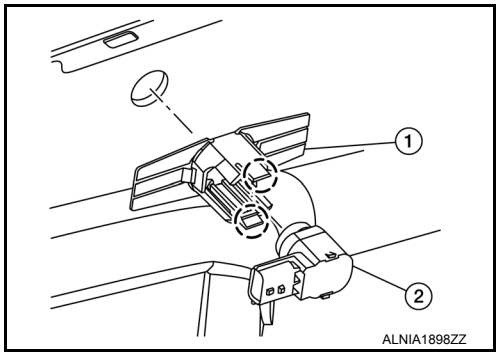
INFOID:0000000013600290

REAR SONAR SENSOR

Removal

1. Remove rear bumper fascia. Refer to EXT-20, "Removal and Installation".
2. Disconnect the harness connector from the rear sonar sensor.
3. Release the rear sonar sensor finisher (1) pawls using suitable tool and remove the rear sonar sensor (2).

:Pawl



4. Remove the rear sonar sensor finisher from the bumper fascia (if necessary).

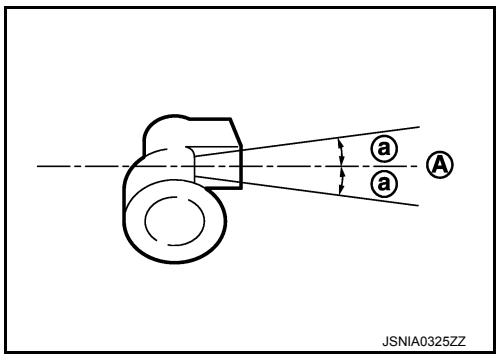
CAUTION:
If the rear sonar sensor finisher is replaced, clean area before installation.

Installation

Installation is in the reverse order of removal.

CAUTION:
Verify that the connector direction is within the specification shown when assembling the bumper fascia.

(A) : Horizontal position
(a) : ±10°

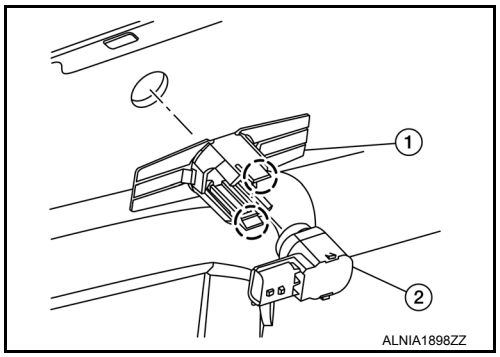


FRONT SONAR SENSOR (OUTER)

Removal

1. Remove the front bumper fascia. Refer to EXT-17, "Removal and Installation".
2. Disconnect the harness connector from the front sonar sensor (outer).
3. Release the front sonar sensor finisher (1) pawls using suitable tool and remove the front sonar sensor (outer) (2).

:Pawl



4. Remove the front sonar sensor finisher (1) from the bumper fascia (if necessary).

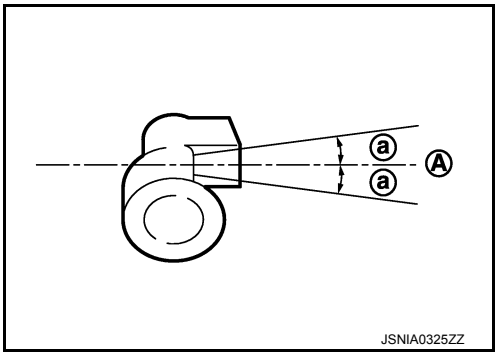
CAUTION:

If the sonar sensor finisher is replaced, clean area before installation.

Installation
Installation is in the reverse order of removal.

CAUTION:
Verify that the connector direction is within the specification shown when assembling the bumper fascia.

(A) : Horizontal position
(a) : 10°

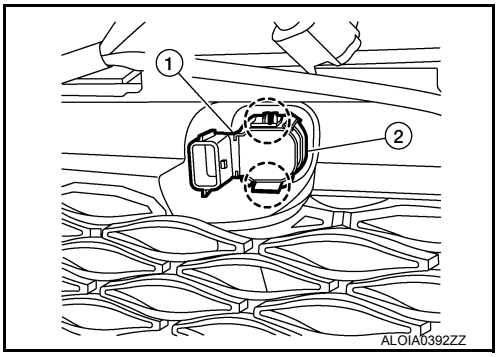


FRONT SONAR SENSOR (INNER)

Removal

1. Remove the front bumper fascia. Refer to EXT-17, "Removal and Installation".
2. Disconnect the harness connector from the front sonar sensor (inner).
3. Release the front sonar sensor (inner) finisher (2) pawls using suitable tool and remove the sensor (1).

:Pawl



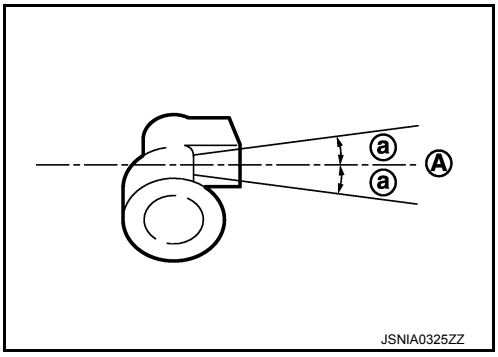
4. Remove the sonar sensor finisher from the grille (if necessary).

CAUTION:
If the sonar sensor finisher is replaced, clean area before installation.

Installation
Installation is in the reverse order of removal.

CAUTION:
Verify that the connector direction is within the specification shown when assembling the bumper fascia.

(A) : Horizontal position
(a) : 10°



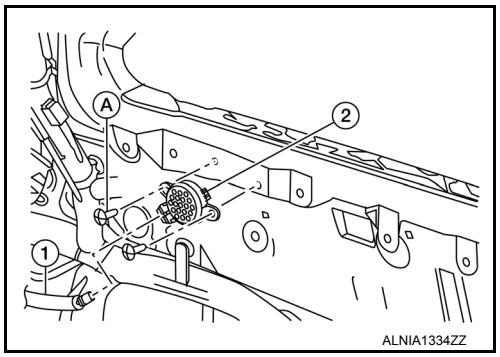
SONAR BUZZER

Removal and Installation

INFOID:0000000012849792

REMOVAL

1. Remove luggage side lower finisher (LH). Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
2. Disconnect harness connector (1) from the sonar buzzer.
3. Remove sonar buzzer screws (A), then remove sonar buzzer (2).



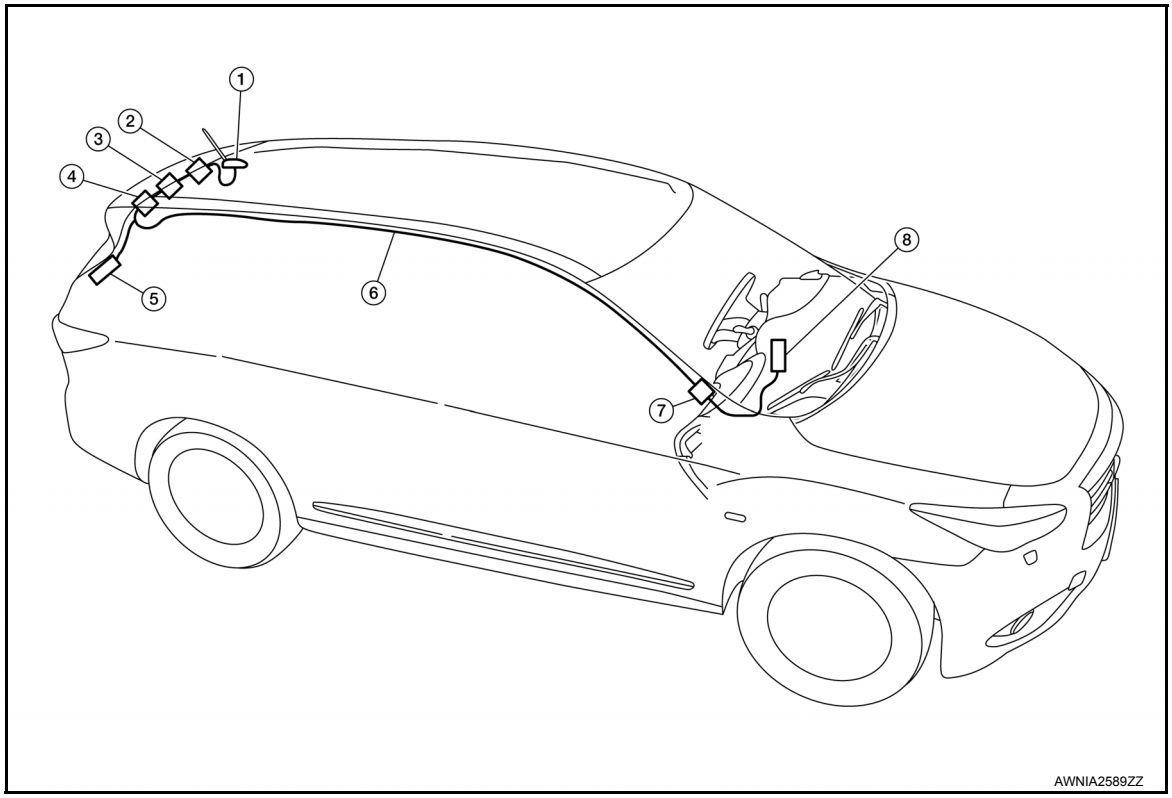
INSTALLATION

Installation is in the reverse order of removal.

AUDIO ANTENNA

Location of Antennas

INFOID:0000000012849793



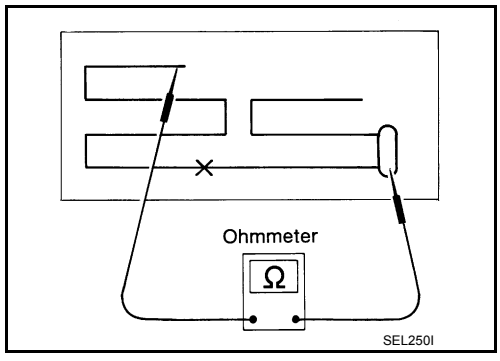
1. Antenna base (satellite antenna and antenna amp)
2. M502
3. M501
4. M503, M504
5. M505
6. Antenna Feeder
7. M95, M138, M500, M509
8. AV control unit M133, M143

Window Antenna Repair

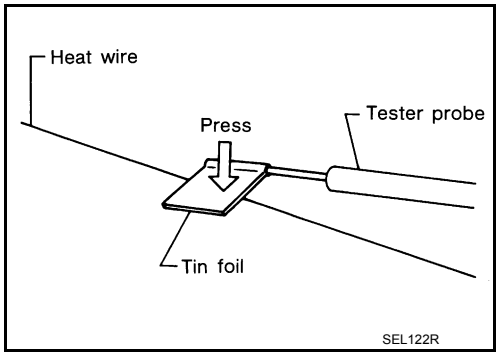
INFOID:0000000012849794

ELEMENT CHECK

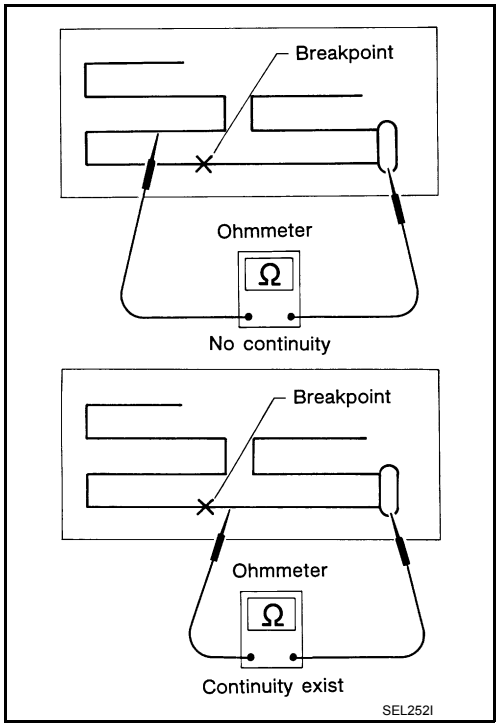
1. Attach probe circuit tester (ohm setting) to antenna terminal on each side.



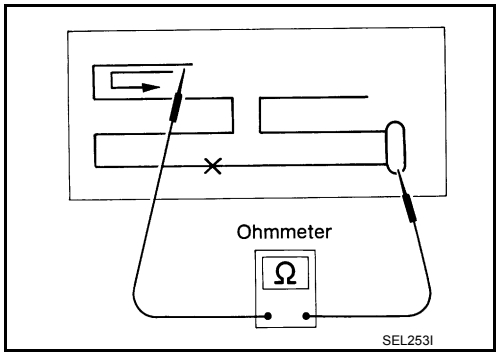
- **When measuring continuity, wrap tin foil around the top of probe. Then, press the foil against the wire with your finger.**



2. If an element is broken, no continuity will exist.



3. To locate a break, move probe along element. Tester indication will change abruptly when probe passes the broken point.



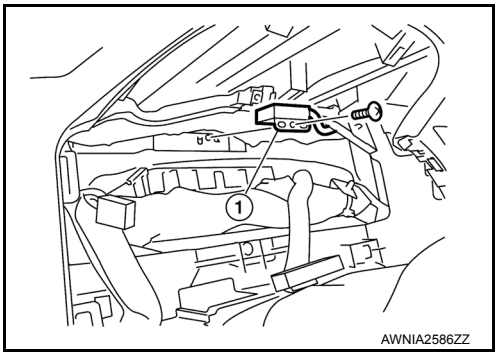
GPS ANTENNA

Removal and Installation

INFOID:0000000012849795

REMOVAL

1. Remove combination meter. Refer to MWI-94, "Removal and Installation".
2. Disconnect harness connector from AV control unit.
3. Remove harness feeder clips.
4. Remove GPS antenna screw and GPS antenna (1).



INSTALLATION

Installation is in the reverse order of removal.

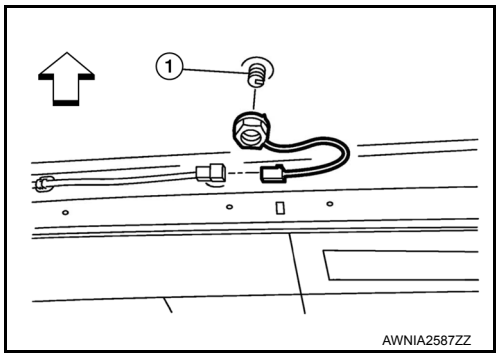
SATELLITE RADIO ANTENNA

Removal and Installation

INFOID:0000000012849796

REMOVAL

1. Lower headlining (rear). Refer to INT-27, "Removal and Installation".
2. Disconnect harness connector from antenna feeder.
3. Remove nut from satellite radio antenna (1) and remove.
   ⇦: Front



INSTALLATION

Installation is in the reverse order of removal.

Satellite radio antenna nut : 6.5 N·m (0.66 kg–m, 58 in–lb)

CAUTION:

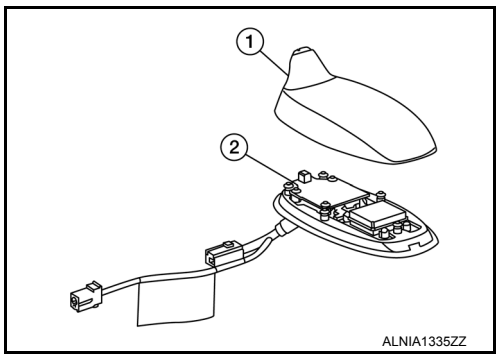
If the satellite radio antenna nut is not tightened to the specified torque, lower sensitivity of the antenna may be experienced. If the nut is tightened tighter than the specified torque, this will deform the roof panel.

Disassembly and Assembly

INFOID:0000000012849797

DISASSEMBLY

Insert a suitable tool into gaps between satellite radio antenna (2) and the cover (1), then remove the cover (1) from satellite radio antenna (2).



ASSEMBLY

Assembly is in the reverse order of disassembly.

PRECAUTION

PRECAUTIONS

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

INFOID:0000000013522924

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 dual stage front air bag modules. The SRS system may only deploy one front air bag, depending on the severity of a collision and whether the front passenger seat is occupied. Information necessary to service the system safely is included in the SR and SB section 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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, 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 SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

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

Cautions in Removing Battery Terminal and AV Control Unit (Models with AV Control Unit)

INFOID:0000000012849799

CAUTION:

Remove battery terminal and AV control unit 30 seconds or more after turning the ignition switch OFF.

NOTE:

After the ignition switch is turned OFF, the AV control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

Precaution for Trouble Diagnosis

INFOID:0000000012849800

AV COMMUNICATION SYSTEM

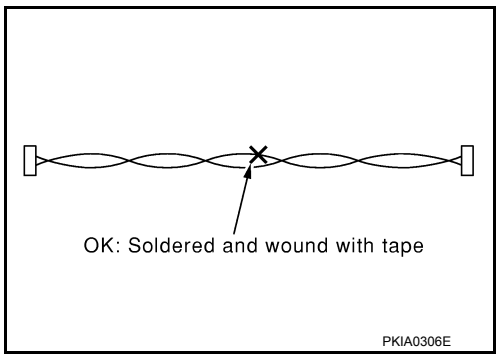
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

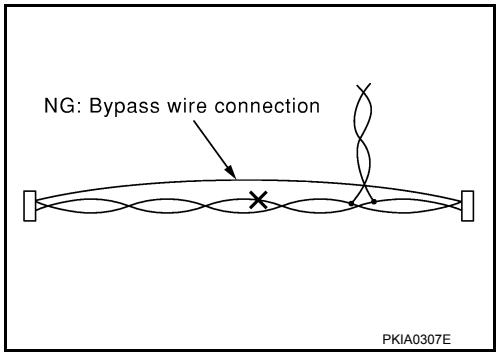
INFOID:0000000012849801

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.)



Precaution for Work

INFOID:0000000012849802

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

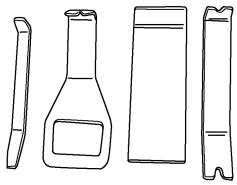
PREPARATION

PREPARATION

Special Service Tool

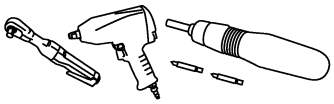
INFOID:0000000012849803

The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tools

INFOID:0000000012849804

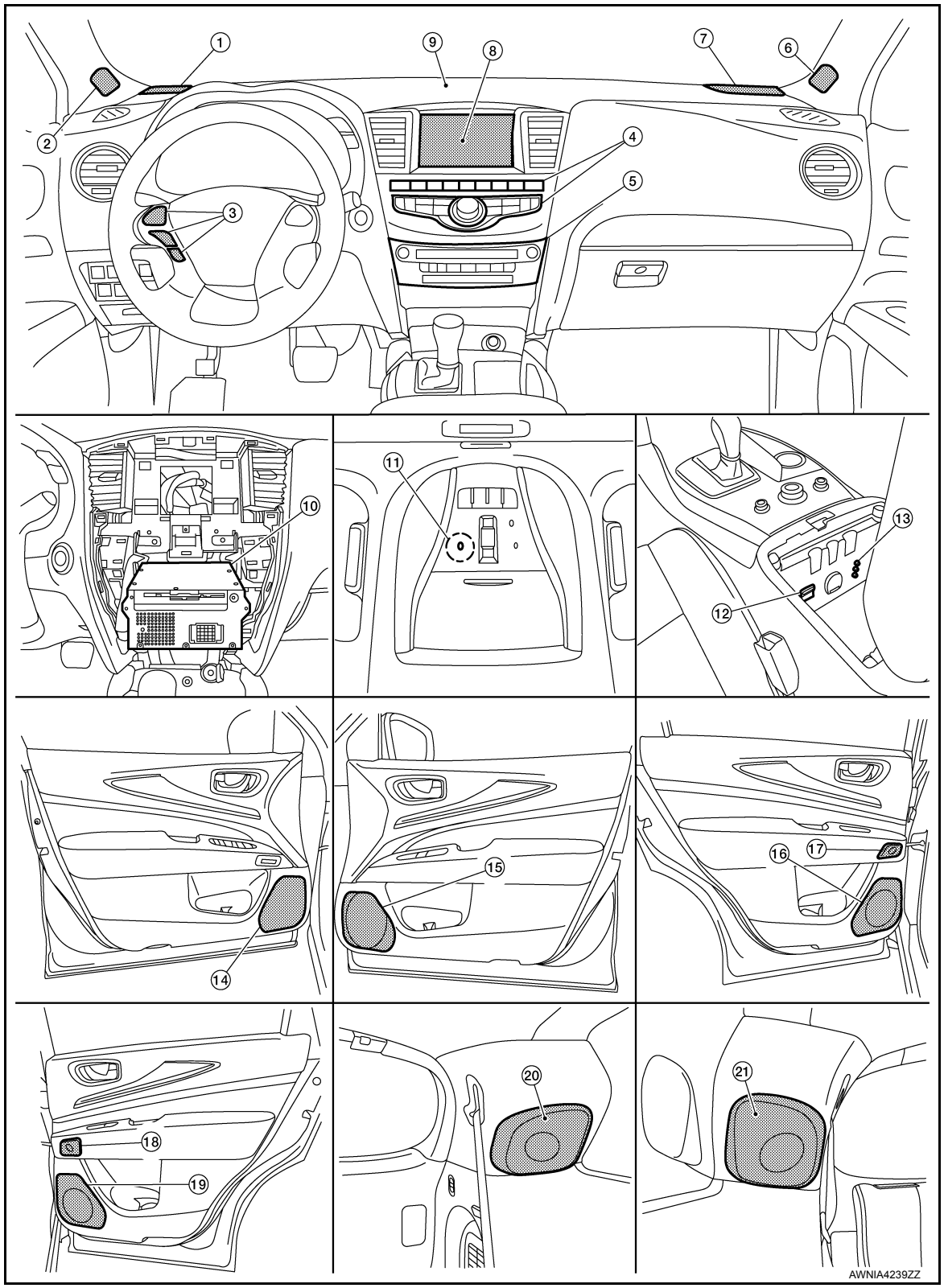
Tool name	Description
Power tools  PIIB1407E	Loosening nuts, screws and bolts

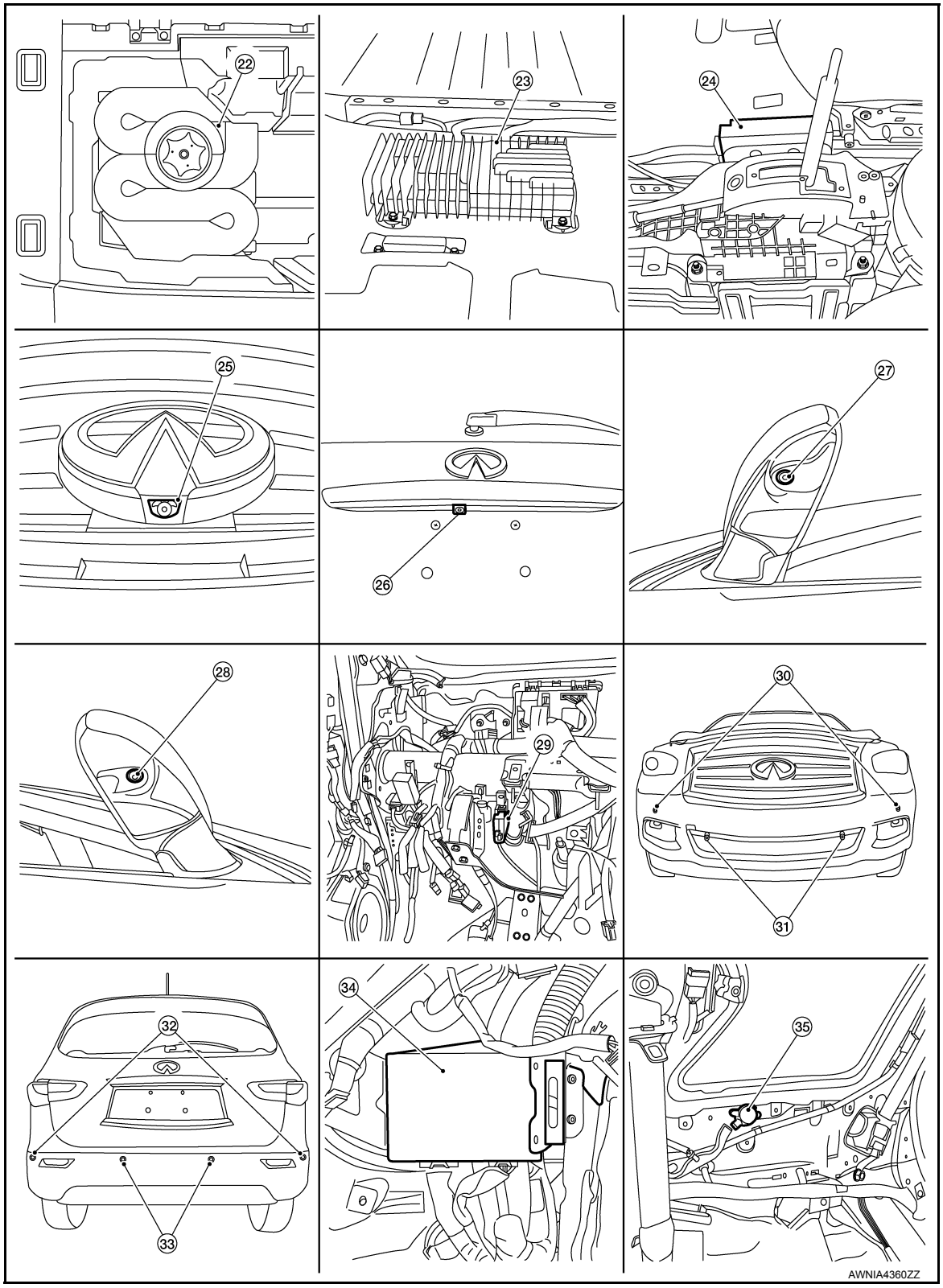
SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000012849805

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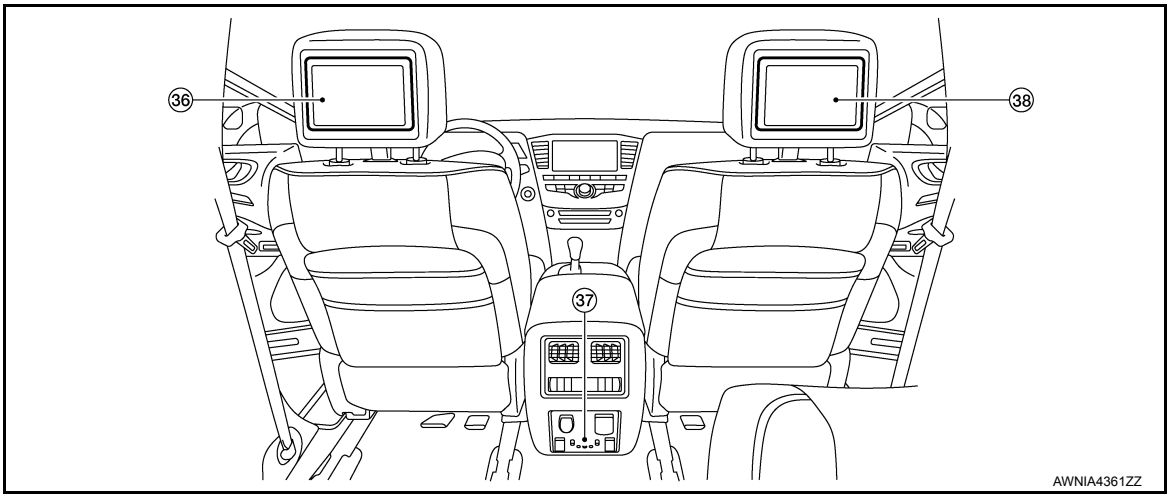


1. Instrument panel tweeter LH	2. Front tweeter LH	3. Steering switch
4. Multifunction switch	5. Preset switch	6. Front tweeter RH
7. Instrument panel tweeter RH	8. Display unit	9. Center speaker
10. AV control unit (view with center stack removed)	11. Microphone	12. USB interface
13. Front auxiliary input jacks	14. Front door speaker LH	15. Front door speaker RH
16. Rear door speaker LH	17. Rear door tweeter LH	18. Rear door tweeter RH
19. Rear door speaker RH	20. Rear side speaker LH	21. Rear side speaker RH
22. Subwoofer	23. Bose speaker amp.	24. Around view monitor control unit
25. Front camera	26. Rear view camera	27. Door mirror LH (side camera)
28. Door mirror RH (side camera)	29. Sonar control unit	30. Front sonar sensors outer
31. Front sonar sensors inner (if equipped)	32. Rear sonar sensors outer	33. Rear sonar sensors inner (if equipped)
34. Video distributor (if equipped)	35. Sonar buzzer	36. Headrest display unit (driver seat) (if equipped)
37. Rear auxiliary input jacks (if equipped)	38. Headrest display unit (passenger seat) (if equipped)	

Component Description

INFOID:0000000012849806

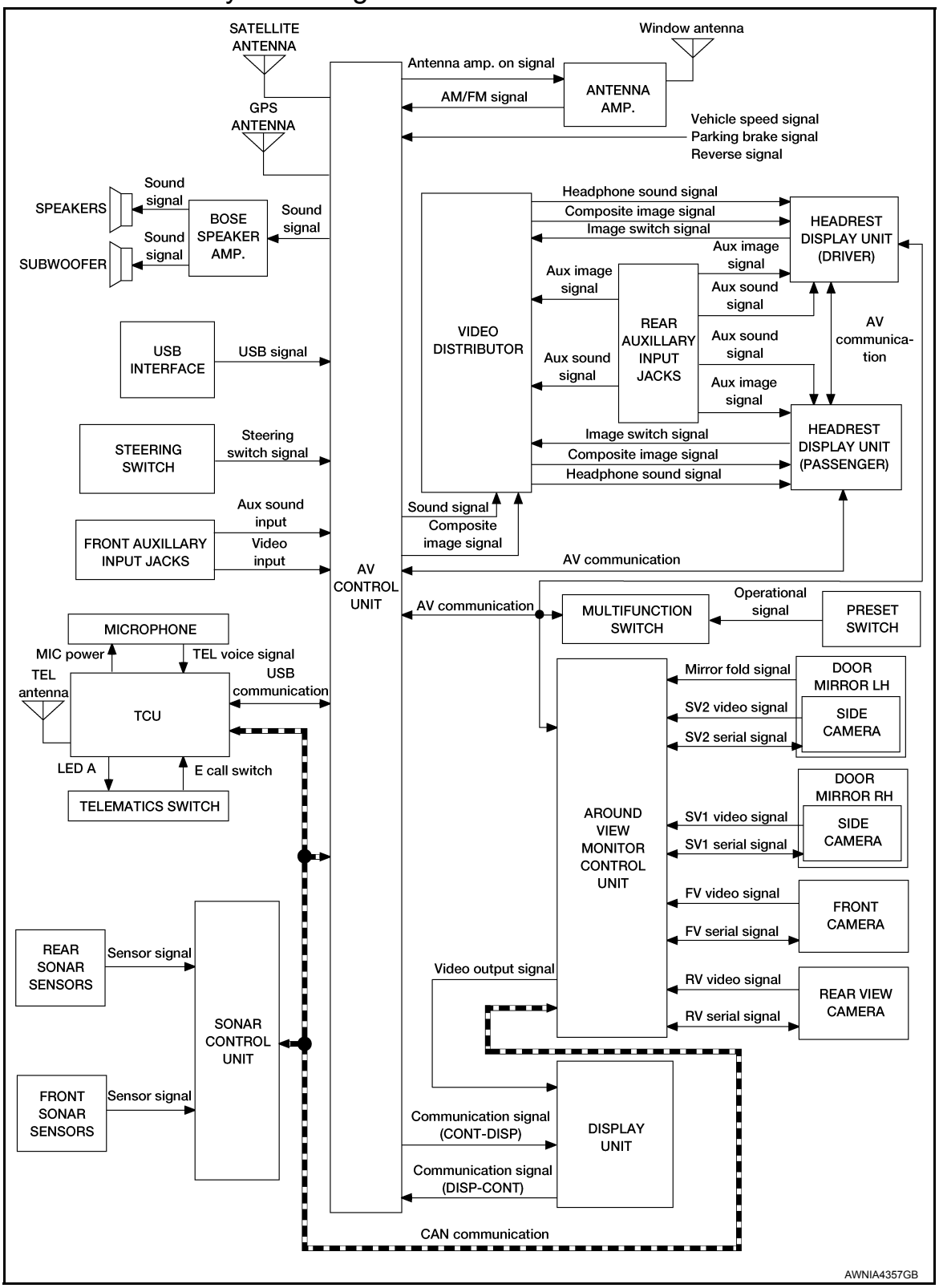
Part name	Description
AV control unit	• Master unit of MULTI AV system. • AV control unit includes audio, hands-free phone, navigation, USB connection, DVD play and vehicle status functions. • Integrates hard disk drive (HDD) allowing map data and music data to be stored. • Connected to MULTI AV system control units via AV communication. • Connected to other vehicle control units via CAN communication to obtain necessary information for vehicle function. • Receives steering angle signal via CAN communication from steering angle sensor and controls an expected course line during around view monitor operation. • Inputs signals for driving status recognition (vehicle speed, reverse and parking brake). • RGB digital image signal and composite image signal are output to front display unit. • Transmits image and sound output to video distributor and inputs image switch signal from headrest display units via AV communication. • Receives an Intelligent Key identification signal necessary for Intelligent Key interlocking function via hard wire from BCM. • Transmits Amp. ON signal to BOSE amp. • Update of map data is performed using DVD-ROM.
Display unit	• Display image is controlled by AV control unit via serial communication. • Receives power from AV control unit. • RGB and RGB digital image signals are input from AV control unit. • Composite image signals are input from AV control unit. • Synchronizing signals are output to AV control unit. • Camera image signals are input from around view monitor control unit via video output signal. • Touch panel functions can be operated by touching display directly.
BOSE speaker amp.	Receives sound signals from AV control unit and outputs sound signals to each speaker.
Instrument panel tweeter	Outputs high range sound signals from BOSE speaker amp.
Center speaker	Outputs mid and high range sound signals from BOSE speaker amp.
Front tweeter	Outputs high range sound signals from BOSE speaker amp.
Front door speaker	Outputs low, mid and high range sound signals from BOSE speaker amp.
Rear door tweeter	Outputs high range sound signals from BOSE speaker amp.
Rear door speaker	Outputs low, mid and high range sound signals from BOSE speaker amp.
Rear side speaker	Outputs low, mid and high range sound signals from BOSE speaker amp.
Subwoofer	Outputs low range sound signals from BOSE speaker amp.
Multifunction switch	• Operation panel is equipped with the centralized switch where navigation and air conditioner, etc. operations are integrated. • Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication. • The disk ejection operating signal is performed by hardwire.
Preset switch	• Operation panel is equipped with the centralized switch where audio, etc. operations are integrated. • Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication.
Steering switch	• Operations for audio, hands-free phone and voice recognition are possible. • Steering switch signal (operation signal) is output to AV control unit.
Steering angle sensor	Connected to AV control unit via CAN communication and transmits steering angle sensor signal.
Video distributor	• Receives image and sound signals from AV control unit and transmits them to headrest display units. • Receives image and sound signals from rear auxiliary input jacks and transmits them to headrest display units. • Transmits image and sound signals to headrest display unit and receives image switch signal from headrest display units.

Part name	Description
Headrest display units	• Composite image signals are input from video distributor. • Receives DVD/AUX/USB sound signals from video distributor and transmits them to headphones. • Transmits image switch signal to video distributor according to remote control operation. • Transmits image switch signal to AV control unit via AV communication according to remote control operation.
Front auxiliary input jacks	Transmits image and sound signals to AV control unit.
Rear auxiliary input jacks	Transmits image and sound signals to video distributor and headrest display units.
Around view monitor control unit	• Supplies power to front, rear and side cameras. • Superimposes images from each camera and outputs them to display unit. • Superimposes guiding line, predicted course line and sonar indicator to camera image that outputs to display unit. • Performs reception/transmission of communication signals with cameras. • Transmits sonar operation signal from sonar control unit via CAN communication. • Receives sonar information from sonar control unit via CAN communication. • Transmits data received/transmitted from sonar control unit to AV control unit via CAN communication.
Front camera	• Inputs power supply from around view monitor control unit. • Outputs image of vehicle front to around view monitor control unit. • Performs reception/transmission of communication signal with around view monitor control unit.
Rear view camera	• Inputs power supply from around view monitor control unit. • Outputs image of vehicle rear to around view monitor control unit. • Performs reception/transmission of communication signal with around view monitor control unit.
Side camera LH	• Inputs power supply from around view monitor control unit. • Outputs image of vehicle LH side to around view monitor control unit. • Performs reception/transmission of communication signal with around view monitor control unit.
Side camera RH	• Inputs power supply from around view monitor control unit. • Outputs image of vehicle RH side to around view monitor control unit. • Performs reception/transmission of communication signal with around view monitor control unit.
Sonar control unit	• Connected to around view monitor control unit via CAN communication. • Receives sonar operation signal from around view monitor control unit via CAN communication. • Transmits sonar detection status to around view monitor control unit via CAN communication. • Judges warning level according to signals from front and rear sensors.
Front sensors	Detects front obstacle distance and transmits signal to sonar control unit.
Rear sensors	Detects rear obstacle distance and transmits signal to sonar control unit.
Microphone	• Used for hands-free phone, voice recognition and INFINITI CONNECTIONS operations. • Microphone signal is transmitted to telematics control unit (TCU). • Power (Microphone VCC) is supplied from TCU.
Telematics control unit (TCU) (if equipped)	• Connected to the AV control unit via a USB harness for sound signal input/output and USB communication. • Data is sent to and received from the INFNITI CONNECTIONS data center via the TEL antenna. • Inputs TEL voice signal from TEL antenna and outputs it to AV control unit.
TEL antenna (if equipped)	• Receives TEL voice signals and outputs them to TCU. • Transmits TEL voice signals from TCU.
GPS antenna	GPS signal is received and transmitted to AV control unit.
Antenna amp.	• Radio signal received by window antenna is amplified and transmitted to AV control unit. • Power (antenna amp. ON signal) is supplied from AV control unit.

Part name	Description
Satellite radio antenna (if equipped)	Satellite radio signal is received and transmitted to AV control unit.
USB connector	USB sound and data input signals are transmitted to AV control unit.

SYSTEM
MULTI AV SYSTEM
MULTI AV SYSTEM : System Diagram

INFOID:0000000012849807



MULTI AV SYSTEM : System Description

INFOID:0000000012849808

AUDIO SYSTEM

The audio system consists of the following components
- AV control unit
- Multifunction switch
- Preset switch
- Display unit
- Steering switch
- BOSE speaker amp.
- Center speaker
- Instrument panel tweeters
- Front tweeters
- Front door speakers
- Rear door speakers
- Rear side speakers
- Subwoofer
- Window antenna

When the audio system is on, radio signals are received by the window antenna. The AV control unit then sends audio signals to the BOSE speaker amp. The BOSE speaker amp. amplifies the audio signals before sending them to the speakers, tweeters and subwoofer.
Refer to Owner's Manual for audio system operating instructions.

SATELLITE RADIO SYSTEM

The satellite radio system consists of the following components
- Satellite antenna
- AV control unit

When the satellite radio system is on, radio signals are supplied to the AV control unit from the satellite antenna. The AV control unit then sends audio signals to the BOSE speaker amp.
Refer to Owner's Manual for satellite radio system operating instructions.

HANDS-FREE PHONE SYSTEM

System Operation

NOTE:

Cellular telephones must have their wireless connection set up (paired) before using the Bluetooth® telephone system.

The Bluetooth® telephone system allows users who have a Bluetooth® cellular telephone to make a wireless connection between their cellular telephone and the AV control unit. Hands-free cellular telephone calls can be sent and received. Some Bluetooth® cellular telephones may not be recognized by the AV control unit. When a cellular telephone or the AV control unit is replaced, the telephone must be paired with the AV control unit. Different cellular telephones may have different pairing procedures, refer to the cellular telephone operating manual.

Refer to the Owner's Manual for Bluetooth® telephone system operating instructions.

AV Control Unit

When the ignition switch is turned to ACC or ON, the AV control unit will power up. During power up, the AV control unit is initialized and performs various self-checks. Initialization may take up to 20 seconds. If a phone is present in the vehicle and paired with the AV control unit, Infiniti Voice Recognition will then become active. Bluetooth® telephone functions can be turned off using the Infiniti Voice Recognition system.

Steering Switch

When buttons on the steering switch are pushed, the resistance in steering switch circuit changes, depending on which button is pushed. The AV control unit uses this signal to perform various functions while navigating through the voice recognition system.
The following functions can be performed using the steering switch:
- Initiate self-diagnosis of the Bluetooth® telephone system
- Start a voice recognition session
- Answer and end telephone calls
- Adjust the volume of calls
- Record memos

Microphone

The microphone is located in the roof console assembly. The microphone sends a signal to the Telematics Control Unit (TCU), which transmits the signal to the AV control unit via the USB communication circuits. The microphone can be actively tested during self-diagnosis.

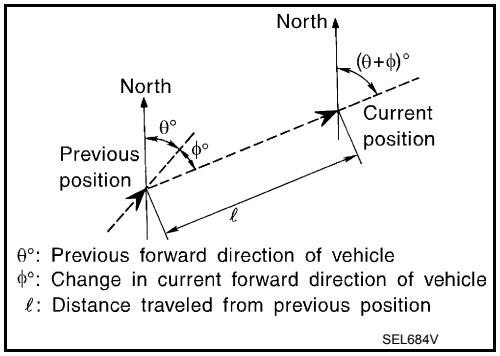
NAVIGATION SYSTEM

System Operation

NOTE:
Refer to NAVI System Owner's Manual for system operation.

The navigation system periodically calculates the vehicle's current position according to the following three signals: Travel distance of the vehicle as determined by the vehicle speed sensor, turning angle of the vehicle as determined by the gyroscope (angular velocity sensor), and the direction of vehicle travel as 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 read from the map data, which is stored in the hard disk drive (HDD) (map-matching), and indicated on the screen with a current-location mark.

By comparing the vehicle position detection results found by the GPS and by map-matching, more accurate vehicle position data can be used.
The current vehicle position will be calculated by detecting the distance the vehicle moved from the previous calculation point and its direction.



Travel Distance
Travel distance calculations are based on the vehicle speed input signal. Therefore, the calculation may become incorrect as the tires wear down. To prevent this, an automatic distance fine adjustment function has been adopted.

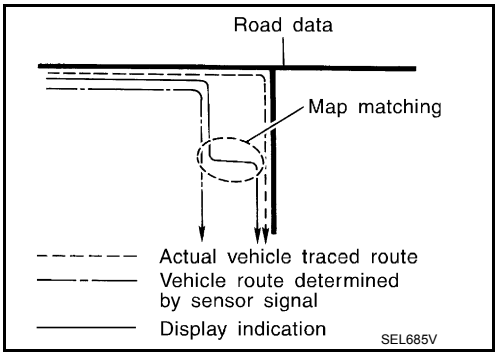
Travel Direction
Change in the travel direction of the vehicle is calculated by a gyroscope (angular velocity sensor) and a GPS antenna (GPS information). As the gyroscope and GPS antenna have both merit and demerit, input signals from them are prioritized in each situation. However, this order of priority may change in accordance with more detailed travel conditions so that the travel direction is detected more accurately.

Type	Advantage	Disadvantage
Gyroscope (angular velocity sensor)	• Can detect the vehicle's turning angle quite accurately.	• Direction errors may accumulate when the vehicle is driven for long distances without stopping.
GPS antenna (GPS information)	• Can detect the vehicle's travel direction (North/South/East/West).	• Correct direction cannot be detected when the vehicle speed is low.

Map–Matching

Map–matching is a function that repositions the vehicle on the road map when a new location is judged to be the most accurate. This is done by comparing the current vehicle position, calculated by the method described in the position detection principle, with the road map data around the vehicle, read from the map data stored on the HDD.

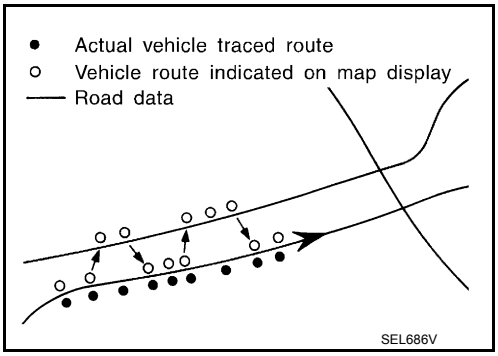
Therefore, the vehicle position may not be corrected after the vehicle is driven over a certain distance or time in which GPS information is hard to receive. In this case, the current-location mark on the display must be corrected manually.



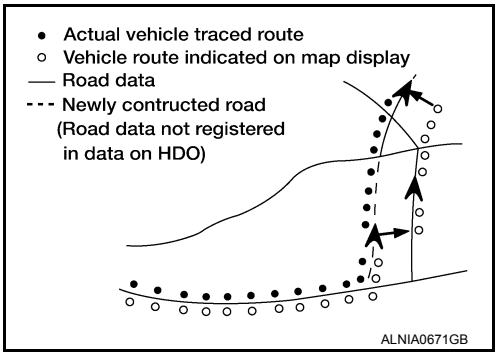
CAUTION:

The road map data is based on data stored on the HDD.

- In map-matching, alternative routes to reach the destination will be shown and prioritized, after the road on which the vehicle is currently driven has been judged and the current-location mark has been repositioned.
  If there is an error in distance and/or direction, the alternative routes will be shown in different order of priority, and the wrong road can be avoided.
  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.



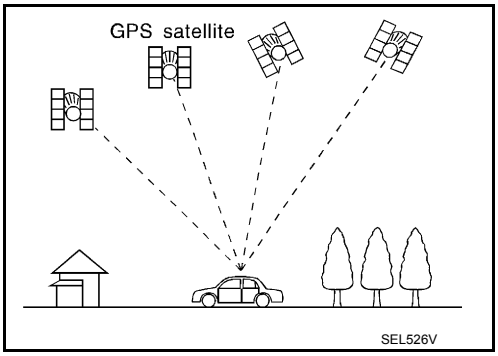
- Map-matching does not function correctly when the road on which the vehicle is driving is new and not recorded on the HDD, or when the road pattern stored in the map data and the actual road pattern are different due to repair.
  When driving on a road not present in the map, the map-matching function may find another road and position the current-location mark on it. Then, when the correct road is detected, the current-location mark may leap to it.
- Effective range for comparing the vehicle position and travel direction calculated by the distance and direction with the road data read from the HDD is limited. Therefore, when there is an excessive gap between the current vehicle position and the position on the map, correction by map-matching is not possible.



GPS (Global Positioning System)

GPS (Global Positioning System) has been developed and controlled by the US Department of Defense. The system utilizes GPS satellite (NAVSTAR), sending out radio waves while flying on an orbit around the earth at the height of approx. 21,000 km (13,000 mi).

The GPS receiver calculates the vehicle's position in three dimensions (latitude/longitude/altitude) according to the time lag of the radio waves received from four or more GPS satellites (three-dimensional positioning). If radio waves were received only from three GPS satellites, the GPS receiver calculates the vehicle's position in two dimensions (latitude/longitude), utilizing the altitude data calculated previously by using radio waves from four or more GPS satellites (two-dimensional positioning).



Accuracy of the GPS will deteriorate under the following conditions.

- In two-dimensional positioning, the GPS accuracy will deteriorate when the altitude of the vehicle position changes.
- There may be an error of approximately 10 m (30 ft.) in position detected by three-dimensional positioning, which is more accurate than two-dimensional positioning. The accuracy can be even lower depending on the arrangement of the GPS satellites utilized for the positioning.
- Position detection is not possible when the vehicle is in an area where radio waves from the GPS satellite do not reach, such as in a tunnel, parking lot in a building, and under an elevated highway. Radio waves from the GPS satellites may not be received when some object is located over the GPS antenna.
- Position correction by GPS is not available while the vehicle is stopped.

SPEED SENSITIVE VOLUME SYSTEM

Volume level of this system goes up and down automatically in proportion to the vehicle speed. The control level can be selected by the customer. Refer to Owner's Manual for operating instructions.

FRONT AUXILIARY INPUT JACKS

- Image and sound can be output from an external device connected to the front auxiliary input jacks.
- AUX image signals are transmitted to each unit as follows:
- To the display unit via AV control unit.
- To the headrest display units via AV control unit and video distributor.
- AUX sound signals are transmitted to each unit as follows:
- To each speaker via AV control unit and BOSE speaker amp.
- To video distributor via AV control unit.
- Headphone sound signals are transmitted via infrared communication between headrest display units and headphones.

REAR ENTERTAINMENT SYSTEM

- Image and sound (DVD, USB memory-stored video data and front auxiliary input) played by AV control unit can be enjoyed in rear seat using headrest display units and headphones.
- Image and sound of an external device connected to rear auxiliary input jacks for rear seat can be enjoyed in rear seat using headrest display units and headphones. Also, image and sound from rear auxiliary input jacks can be selected and played individually on each side as well as on both sides.

NOTE:
Image signal and sound signal from rear auxiliary input jacks are not transmitted to front display unit and each speaker.

Operation Signal

- The rear entertainment system can be controlled by the rear seat remote control.
- The rear seat remote control transmits the operation signal to the remote control receiver built into headrest display units, which then transmits it to the AV control unit and video distributor.

Headphone Sound

- Sound signals output from AV control unit or rear auxiliary input jacks are transmitted to headrest display units via video distributor.
- Headphone sound signals are transmitted via infrared communication between headrest display units and headphones.

Headrest Display Units

- Composite image signals from AV control unit are transmitted to headrest display unit via video distributor.
- Image switch signals from headrest display units are transmitted to AV control unit and video distributor, according to rear seat remote control operation.
- When image switch signal is transmitted from headrest display unit to AV control unit via AV communication, image played by AV control unit (DVD, USB memory-stored video data, and front auxiliary input) switches.
- When image switch signal is transmitted from headrest display unit to video distributor, image output from AV control unit and image output from rear auxiliary input jacks switch.

AROUND VIEW MONITOR SYSTEM

- This system is equipped with wide-angle high-resolution cameras on the front and rear of the vehicle and on both right and left door mirrors. The images from front view, rear view, front-side view (RH side), and birds-eye view that shows the view from the top of the vehicle are displayed to monitor the vehicle surroundings.
- Around view monitor control unit cuts out and expands the image received from each camera to create each view.
- The sonar indicator is viewed on display (superimposed on the camera image) in combination with the camera assistance sonar system to warn of the approach of an obstacle.
- In front view and rear view, the vehicle width, distance lines and predictive course lines are superimposed and displayed. In front-side view, the vehicle distance guiding line and vehicle width guiding line are displayed.
- The Birds-Eye view converts the images from 4 cameras into the overhead view and displays the status of the vehicle. The vehicle icon and sonar indicator on the Birds-Eye view display are rendered by around view monitor control unit.

Around View Monitor Screen

- Around view monitor combines and displays the travel direction view and Birds-Eye view, Front-Side view and then displays the sonar indicator on the Birds-Eye view, Front-Side view, Rear wide view.
- AV control unit renders the Change View switch, view icon, warning message on display.

Operation Description

NOTE:

The first, second, and third camera image displayed when switched to the camera image display depends on the settings of Camera View Priority.

- Around view monitor operates by pressing the CAMERA switch on the multifunction switch and shifting the selector lever to the R position.
- When the selector lever is in any position other than R, the screen is switched to the around view monitor by pressing the CAMERA switch.
- The screen is switched to the around view monitor by shifting the selector lever to the R position.
- The around view monitor's, Birds-Eye view, Front-side view or rear wide view (rear only) can be switched by pressing the CAMERA switch.
- The around view monitor is cancelled 3 minutes after pressing the CAMERA switch, and the display returns to the previous screen.
- ON/OFF setting of sonar indicator display on the Front-Side view screen can be performed.
- In Birds-Eye view, the invisible area is displayed on the image to specify the boundary of the 4 cameras. The invisible area is displayed in yellow in the Birds-Eye view after turning the ignition switch ON.
- The sonar operates only when the camera screen is displayed.

SONAR SYSTEM

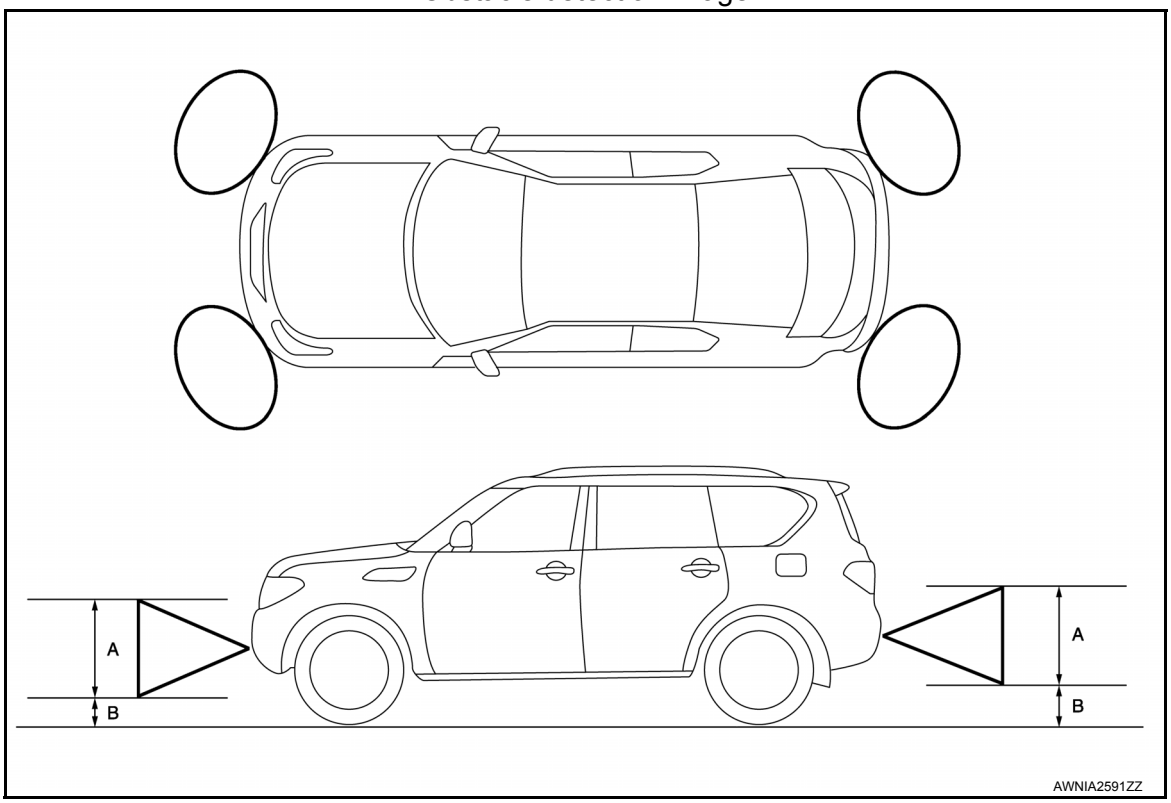
System Operation Description

- Around view monitor control unit transmits the sonar operation signal via CAN communication to sonar control unit to control the operation of sonar indicator and sonar buzzer.
- Sonar control unit transmits the detection signal and detection distance signal via CAN communication to around view monitor control unit. Around view monitor control unit operates the applicable sonar indicator.
- When receiving a sonar operation signal from the around view monitor control unit, the sonar control unit converts the signal into a detection distance signal and transmits it to the AV control unit via CAN communication. When receiving the detection signal, the AV control unit activates the speakers via the BOSE speaker amp.
- The sonar control unit is capable of self diagnosis. It can detect sensor malfunction or sensor harness open circuits. It transmits the diagnosis results to around view monitor control unit and always displays the sonar indicator in red to inform the vehicle operator.

Obstacle Detection Distance

- Sonar control unit changes the outputs of the sonar indicator and warning buzzer in 3 stages according to the obstacle detection distance from the corner sensor.
- The sonar control unit can change the setting of obstacle detection distance in 4 stages.

Obstacle detection image



A. Approx. 50 cm (19.6 in) B. Approx. 15 cm (5.9 in)

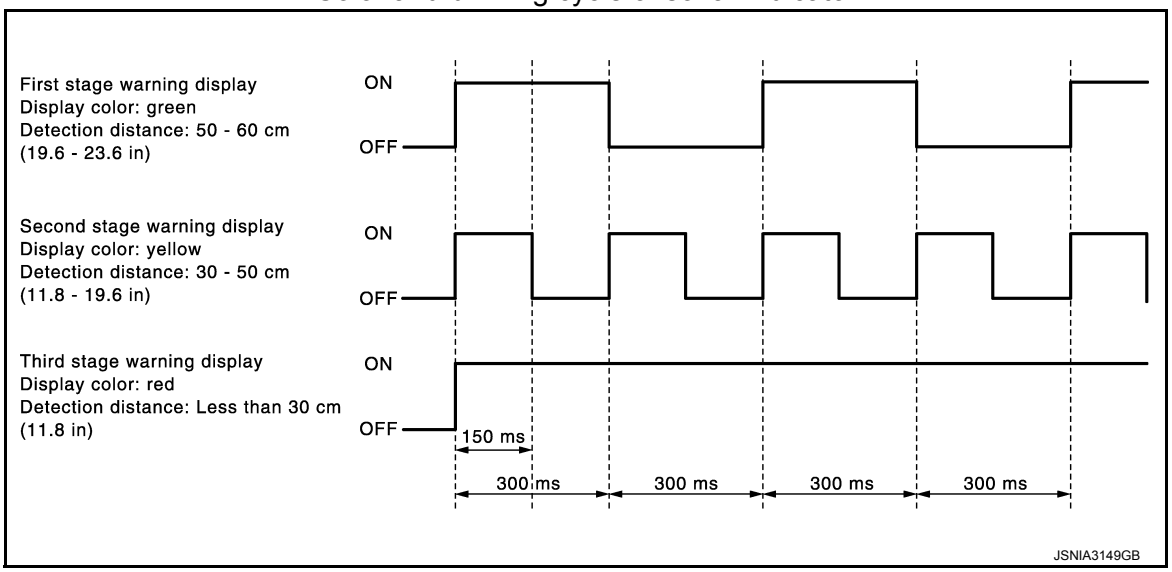
Detection distance

Warning item	Sensitivity level 1 (Fastest warning)	Sensitivity level 2 (Faster warning)	Sensitivity level 3 (Default value)	Sensitivity level 4 (Slower warning)
First stage warning	70 – 80 cm (27.5 – 31.4 in)	60 – 70 cm (23.6 – 27.5 in)	50 – 60 cm (19.6 – 23.6 in)	40 – 50 cm (15.7 – 19.6 in)
Second stage warning	50 – 70 cm (19.6 – 27.5 in)	40 – 60 cm (15.7 – 23.6 in)	30 – 50 cm (11.8 – 19.6 in)	30 – 40 cm (11.8 – 15.7 in)
Third stage warning	Less than 50 cm (19.6 in)	Less than 40 cm (15.7 in)	Less than 30 cm (11.8 in)	Less than 30 cm (11.8 in)

Sonar Indicator Display

- Around view monitor control unit that receives the detection signal and detection distance signal from sonar control unit displays the sonar indicator on display.
- Around view monitor control unit changes the color or blinking cycle of the indicator according to the detection distance.

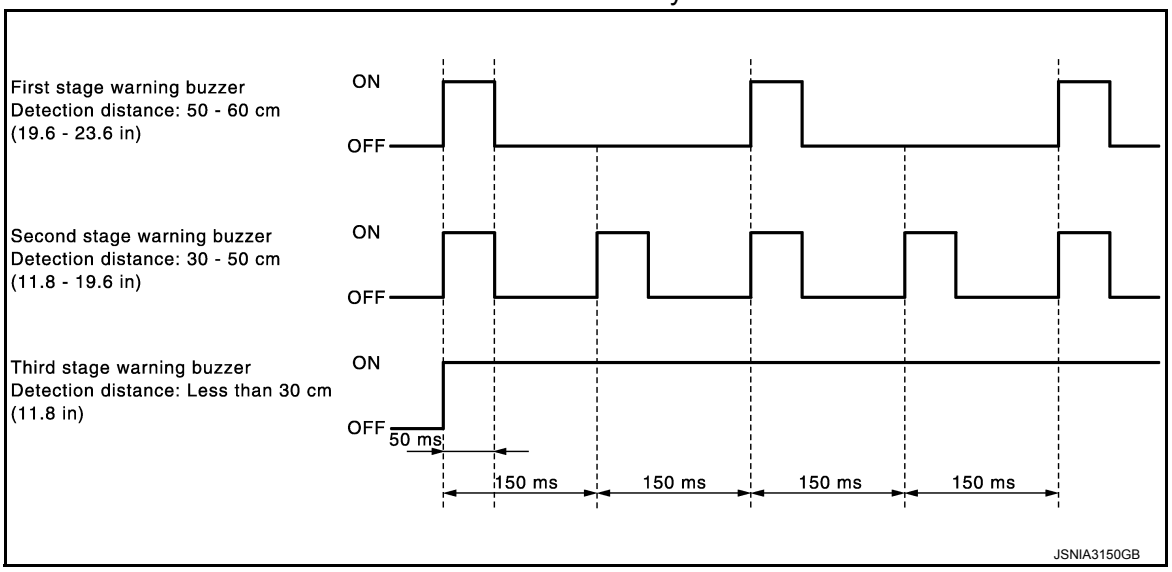
Color and blinking cycle of sonar indicator



Sonar Buzzer Operation

- Each sonar sensor transmits a sensor signal to the sonar control unit when detecting an obstacle.
- The sonar control unit converts a signal received from each sonar sensor into distance and transmits detection distance signal to the AV control unit via AV communication.
- The AV control unit transmits a buzzer signal to the BOSE amp. corresponding to each sonar sensor based on the received signal.
- When receiving a buzzer signal, the BOSE amp. transmits the buzzer signal to the each speaker. When each speaker receives a buzzer signal, a buzzer sounds.
- When the front corner sensor detects an obstacle, a buzzer is heard from the speakers on the front side.
- When the rear corner sensor detects an obstacle, a buzzer is heard from the speakers on the rear side.
- It changes the buzzer cycle in 3 stages according to the detection distance.

Sonar buzzer cycle



VEHICLE INFORMATION FUNCTION

- Status of audio, climate control system, fuel economy, maintenance and navigation are displayed.
- AV control unit displays the fuel consumption status while receiving data signal through CAN communication from ECM and combination meter.
- AV control unit is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.

INTELLIGENT KEY INTERLOCKING FUNCTION

The AV control unit recognizes a door-unlocked state of Intelligent Key according to an Intelligent Key recognition signal transmitted from BCM and saves two different types of audio settings and navigation settings.

Settings saved in the AV control unit
- Map display
- Route guidance
- Locator
- Route search
- Sound quality
- Radio preset
- Language

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Description

INFOID:0000000012849809

The AV control unit on board diagnosis includes the following functions:

- Multifunction switch and preset switch self diagnosis that checks the ON/OFF operation (continuity) of each switch in the multifunction switch and preset switch.
  NOTE:
  The hazard switch and disk eject switch are not included in this operation check.
- AV control unit on board diagnosis performs the following functions listed in the table below:

Mode			Description
Self Diagnosis			• AV control unit diagnosis. • Diagnoses the connections across system components, between AV control unit and GPS antenna.
Confirmation/ Adjustment	Display Diagnosis		The following check functions are available: color tone check by color bar display and white 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, reverse, side view switch and room lamp.
	Speaker Test		The connection of a speaker can be confirmed by test tone.
	Navigation	Steering Angle Adjustment	When there is a difference between the actual turning angle and the vehicle mark turning angle, it can be adjusted.
		Speed Calibration	When there is a difference between the current location mark and the actual location, it can be adjusted.
	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/Infiniti Connection		• The received volume adjustment of hands-free phone, microphone speaker check, and erase memory can be performed. • Diagnosis of the Infiniti Connection system can be performed.
	XM	XM NaviTrffic	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.
		XM NavWeather	
		XM CGS	
		Diag	
	Delete Unit Connection Log		Erase the connection history of unit and error history.
	Initialize Settings		Initializes the AV control unit memory.
	Version Information		Version information of the AV control unit is displayed.

Perform CONSULT diagnosis if the AV control unit on board diagnosis does not start, the screen does not display anything, or the multifunction switch and preset switch self diagnosis does not function.

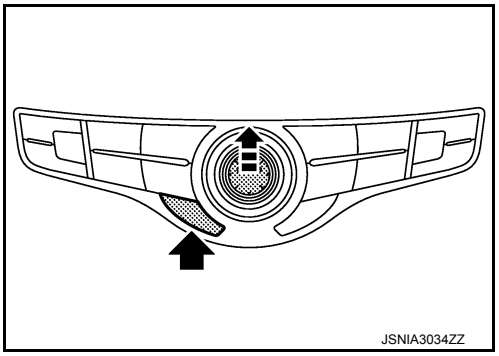
On Board Diagnosis Function

INFOID:0000000012849810

METHOD OF STARTING

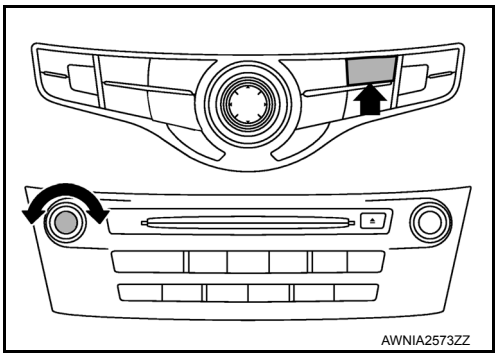
Multifunction Switch and Preset Switch Self Diagnosis

- Press the BACK and UP 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 switches illuminate, and the self-diagnosis mode begins.
- The ON position continuity of each switch can be checked by pressing the switch. The buzzer sounds if continuity is present.
- The self diagnosis mode is canceled when the ignition switch is turned OFF.


JSNIA3034ZZ

AV Control Unit Self Diagnosis

1. Turn the ignition ON.
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 self-diagnosis mode begins, a short beep will be heard. Shifting from current screen to previous screen is performed by pressing BACK button.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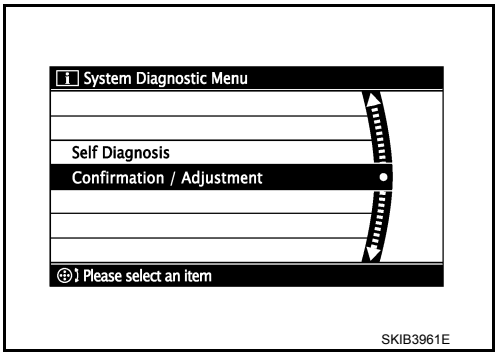
4. The trouble diagnosis initial screen is displayed, and Self Diagnosis or Confirmation/Adjustment can be selected.



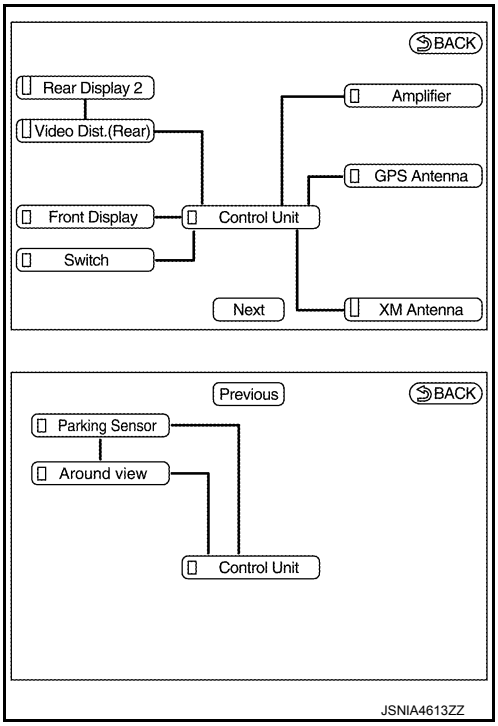
SKIB3961E

SELF DIAGNOSIS MODE

AV Control Unit Self Diagnosis

1. Select Self Diagnosis.
2. Self diagnosis screen is displayed. The bar graph visible in center of screen indicates progress of self diagnosis.

3. 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.

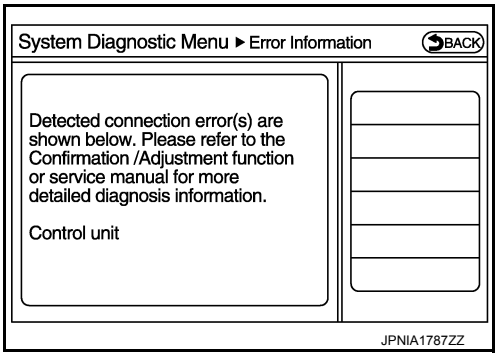


Diagnosis results	Unit	Connection line
Normal	Green	Green
Connection malfunction	Gray	Yellow
Unit malfunction [1]	Red	Green

1: Control Unit (AV control unit) is displayed in red.

- Replace AV control unit if Self Diagnosis did not run because control unit malfunction is indicated. The symptom is AV control unit internal error. Refer to AV-914, "Removal and Installation".
- 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.

4. Comments of self diagnosis results can be viewed in the diagnosis result screen.



AV Control Unit Self Diagnosis Results

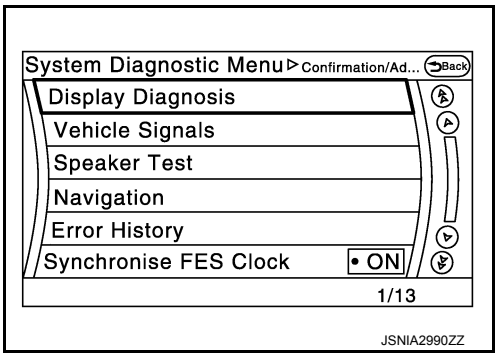
Only Unit Part Is Displayed In Red		
Screen switch	Description	Possible cause
Control Unit	Malfunction is detected in AV control unit power supply and ground circuits.	• AV control unit power supply or ground circuits. Refer to AV-846, "AV CONTROL UNIT : Diagnosis Procedure". • If no malfunction is detected in AV control unit power supply and ground circuits, replace AV control unit. Refer to AV-914, "Removal and Installation".
Amplifier	When either one of the following items are detected: • sound signal circuits between BOSE amp. and each speaker are malfunctioning. • BOSE amp. malfunction is detected.	• Malfunctioning speaker circuits • Replace BOSE amp. Refer to AV-920, "Removal and Installation".

A Connecting Cable Between Units Is Displayed In Yellow		
Area with yellow connection lines	Description	Possible cause
Control unit ⇔ Front Display	Serial communication circuits between AV control unit and front display unit are malfunctioning.	Serial communication circuits between AV control unit and front display unit.
Control unit ⇔ GPS Antenna	GPS antenna connection malfunctions detected.	Check the connection of the GPS antenna connector.
Control unit ⇔ XM Antenna	Satellite radio antenna connection malfunction is detected.	Satellite radio antenna disconnection
Control unit ⇔ Amplifier	When either one of the following items are detected: • BOSE amp. power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and BOSE amp. are malfunctioning.	• BOSE amp. power supply and ground circuits. Refer to AV-847, "BOSE AMP. : Diagnosis Procedure". • AV communication circuits between AV control unit and BOSE amp.
Control unit ⇔ Around view Around view ⇔ Parking Sensor	When either one of the following items are detected: • around view monitor control unit power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and around view monitor control unit are malfunctioning.	• Around view monitor control unit power supply and ground circuits. • AV communication circuits between AV control unit and around view monitor control unit.
Control unit ⇔ Parking Sensor Around view ⇔ Parking Sensor	When either one of the following items are detected: • sonar control unit power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and sonar control unit are malfunctioning.	• Sonar control unit power supply and ground circuits. • AV communication circuits between AV control unit and sonar control unit.

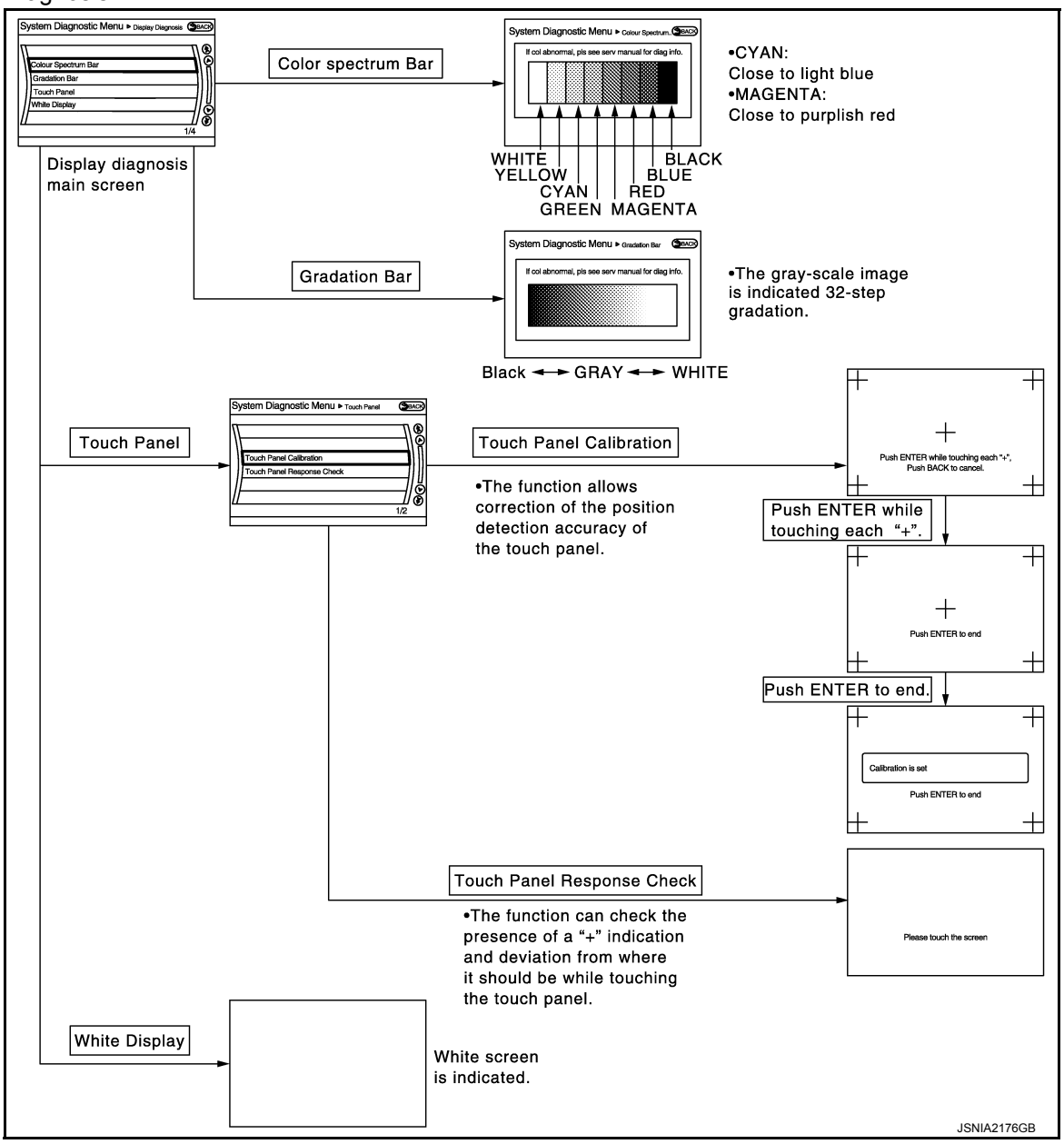
A Connecting Cable Between Units Is Displayed In Yellow		
Area with yellow connection lines	Description	Possible cause
Control unit ⇔ Video Dist.(Rear) Video Dist.(Rear) ⇔ Rear display 2	When either one of the following items are detected: • video distributor power supply and ground circuits are malfunctioning. • headrest display unit LH power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and headrest display unit LH are malfunctioning. • location recognition signal circuit between headrest display unit LH and ground is malfunctioning.	• Video distributor power supply and ground circuits. • Headrest display unit LH power supply and ground circuits. • AV communication circuits between AV control unit and headrest display unit LH. • Location recognition signal circuit between headrest display unit LH and ground.
Video Dist.(Rear) ⇔ Rear display 2	When either one of the following items are detected: • headrest display unit RH power supply and ground circuits are malfunctioning. • AV communication circuits between headrest display unit LH and headrest display unit RH are malfunctioning. • location recognition signal circuit between headrest display unit RH and ground is malfunctioning.	• Headrest display unit RH power supply and ground circuits. • AV communication circuits between headrest display unit LH and headrest display unit RH. • Location recognition signal circuit between headrest display unit RH and ground.

AV Control Unit Confirmation/Adjustment

1. Select Confirmation/Adjustment.
2. Select each switch on the Confirmation/Adjustment screen to display the relevant trouble diagnosis screen. Press the BACK switch to return to the initial Confirmation/Adjustment screen.

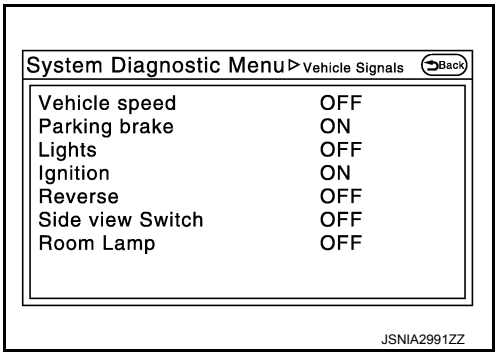


Display Diagnosis



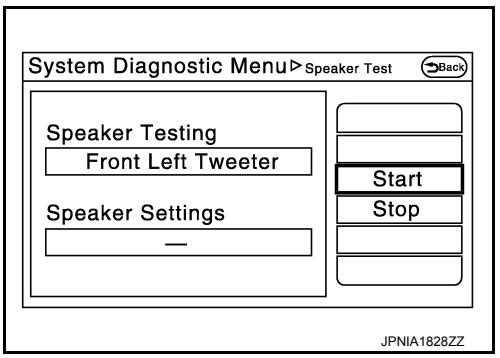
Vehicle Signals

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



Speaker Test

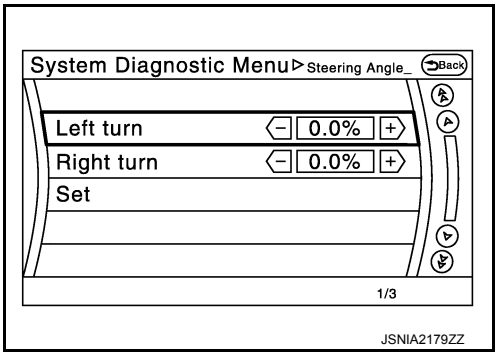
Select Speaker Test to display the Speaker Diagnosis screen. Press Start to generate a test tone in a speaker. Press Start again to generate a test tone in the next speaker. Press End to stop the test tones.



Navigation

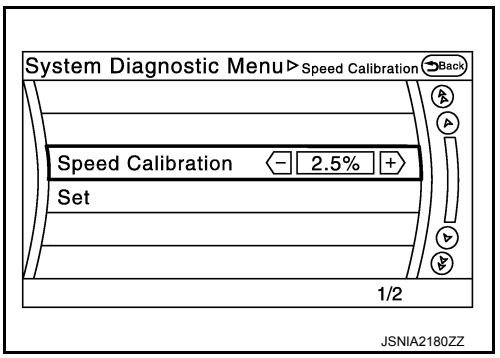
STEERING ANGLE ADJUSTMENT

The steering angle output value detected with the gyroscope is adjusted.



SPEED CALIBRATION

During normal driving, distance error caused by tire wear and tire pressure change is automatically adjusted for by the automatic distance correction function. This function, on the other hand, is for immediate adjustment, in cases such as driving with tire chain fitted on tires.



Error History

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

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

The error record displays the time and place of the most recent occurrence of that error. However, take note of the following points.

- If there is a malfunction with the GPS antenna circuit board in the AV control unit, the correct date and time of occurrence may not be able to be displayed.
- Place of the error occurrence is represented by the position of the current location mark at the time an error occurred. If current location mark has deviated from the correct position, then the place of the error occurrence cannot be located correctly.
- The frequency of occurrence is displayed in a count up manner. The actual count up method differs depending on the error item.

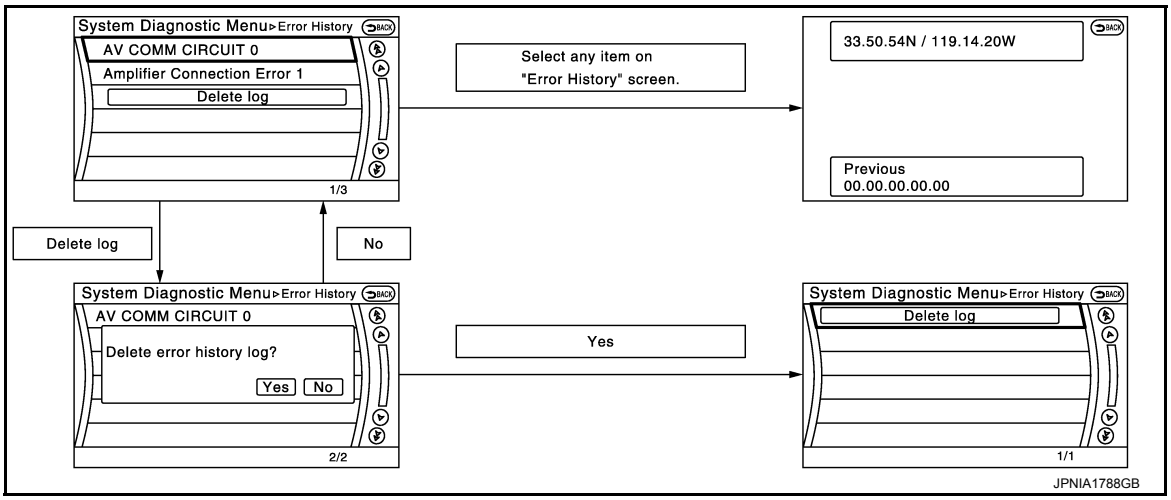
Count up method A

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

Count up method B

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

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



Error item

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

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-683, "CONSULT Function".
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-914, "Removal and Installation".
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.	
FLASH-ROM Error Of Control Unit	AV control unit malfunction is detected.	
Connection Of Gyro		
Connection of G Sensor		
CAN Controller Memory Error		
Bluetooth® Module Connection Error		
Sub CPU Connection Error		
Audio connection error		
DSP Connection Error	AV control unit malfunction is detected.	• If a disc can be played, then there is a possibility of the detection of a temporary malfunction. • Replace the AV control unit if the malfunction occurs constantly. Refer to AV-914, "Removal and Installation".
DSP Communication Error		

Error item	Description	Possible malfunction factor/Action to take
HDD Connection Error HDD Read Error HDD Write Error HDD Communication Error HDD Access Error	AV control unit malfunction is detected.	• There is a possibility of the detection of a temporary malfunction. • Replace the AV control unit if the malfunction occurs constantly. Refer to AV-914, "Removal and Installation".
GPS Communication Error GPS ROM Error GPS RAM Error GPS RTC Error	GPS malfunction is detected.	• An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. • Replace the AV control unit if the malfunction occurs constantly. Refer to AV-914, "Removal and Installation".
Unfinished configuration	The writing of configuration data is incomplete.	Write configuration data with CONSULT.
USB Controller Communication Error	USB connection malfunction is detected.	Check that the connection to the USB connector is normal.
DVD Mechanism Communication Error	AV control unit malfunction is detected.	• If DVD can be played, then there is a possibility of the detection of a temporary malfunction. • Replace the AV control unit if the malfunction occurs constantly. Refer to AV-914, "Removal and Installation".
Steer. Angle Sensor Calibration	Predictive course line center position adjustment of the steering angle sensor is incomplete.	Adjust the predictive course line center position of the steering angle sensor. Refer to AV-778, "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Work Procedure".
Amplifier Temperature Error	BOSE amp. malfunction is detected.	Replace the BOSE amp. Refer to AV-920, "Removal and Installation".
Front Display Connection Error	When either one of the following items are detected: • front display unit power supply and ground circuits are malfunctioning. • Serial communication circuits between AV control unit and front display unit are malfunctioning.	• Front display unit power supply and ground circuits. • Serial communication circuits between AV control unit and front display unit.
• AV COMM CIRCUIT • 2nd Display Connection Error	When either one of the following items are detected: • video distributor power supply and ground circuits are malfunctioning. • headrest display unit LH power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and headrest display unit LH are malfunctioning. • location recognition signal circuit between headrest display unit LH and ground is malfunctioning.	• Video distributor power supply and ground circuits. • Headrest display unit LH power supply and ground circuits. • AV communication circuits between AV control unit and headrest display unit LH. • Location recognition signal circuit between headrest display unit LH and ground.

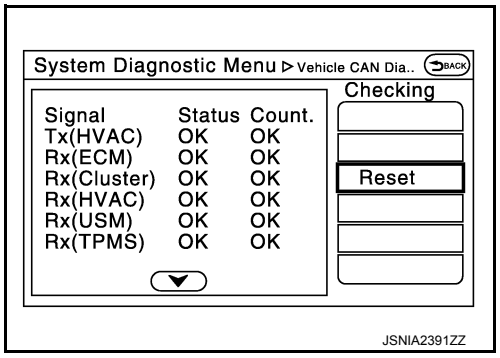
Error item	Description	Possible malfunction factor/Action to take
3rd Display Connection Error	When either one of the following items are detected: • headrest display unit RH power supply and ground circuits are malfunctioning. • AV communication circuits between headrest display unit LH and headrest display unit RH are malfunctioning. • location recognition signal circuit between headrest display unit RH and ground is malfunctioning.	• Headrest display unit RH power supply and ground circuits. • AV communication circuits between headrest display unit LH and headrest display unit RH. • Location recognition signal circuit between headrest display unit RH and ground.
AM/FM antenna amplifier short to ground	Radio antenna amp. ON signal circuit malfunction is detected.	Radio antenna amp. ON signal circuit between AV control unit and antenna amp.
AM/FM antenna amplifier open		
Ext_Amp_ON output terminal short to ground	BOSE amp. ON signal circuit malfunction is detected.	BOSE amp. ON signal circuit between AV control unit and BOSE amp.
Ext_Amp_ON output terminal :open		
GPS Antenna Error	GPS antenna connection malfunction is detected.	Check the connection of the GPS antenna connector.
XM Antenna Connection Error	Satellite radio antenna connection malfunction is detected.	Satellite radio antenna disconnection.
USB electric current Error	Detection of overcurrent in USB connector.	Check USB harness between the AV control unit and USB connector.
FL-DOOR SPEAKER OUT: open	When either one of the following items are detected: • sound signal circuits between BOSE amp. and front door speaker LH are malfunctioning. • sound signal circuits between BOSE amp. and front door tweeter LH are malfunctioning.	• Sound signal circuits between BOSE amp. and front door speaker LH. • Sound signal circuits between BOSE amp. and front door tweeter LH.
FL-DOOR SPEAKER OUT: short		
FL-DOOR SPEAKER: short to ground		
FL-DOOR SPEAKER: short to battery		
FL-DOOR TWEETER OUT: open		
FL-DOOR TWEETER OUT: short		
FL-DOOR TWEETER OUT: short to ground		
FL-DOOR TWEETER OUT: short to battery		
FR-DOOR SPEAKER OUT: open	When either one of the following items are detected: • sound signal circuits between BOSE amp. and front door speaker RH are malfunctioning. • sound signal circuits between BOSE amp. and front door tweeter RH are malfunctioning.	• Sound signal circuits between BOSE amp. and front door speaker RH. • Sound signal circuits between BOSE amp. and front door tweeter RH.
FR-DOOR SPEAKER OUT: short		
FR-DOOR SPEAKER OUT: short to ground		
FR-DOOR SPEAKER OUT: short to battery		
FR-DOOR TWEETER OUT: open		
FR-DOOR TWEETER OUT: short		
FR-DOOR TWEETER OUT: short to ground		
FR-DOOR TWEETER OUT: short to battery		
FL-INST TWEETER OUT: open	Sound signal circuits between BOSE amp. and tweeter LH are malfunctioning.	Sound signal circuits between BOSE amp. and tweeter LH.
FL-INST TWEETER OUT: short		
FL-INST TWEETER OUT: short to ground		
FL-INST TWEETER OUT: short to battery		
FC-INST SPEAKER OUT: open	Malfunction is detected sound signal circuits between BOSE amp. and center speaker.	Sound signal circuits between BOSE amp. and center speaker.
FC-INST SPEAKER OUT: short		
FC-INST SPEAKER OUT: short to ground		
FC-INST SPEAKER OUT: short to battery		

Error item	Description	Possible malfunction factor/Action to take
FR-INST TWEETER OUT: open FR-INST TWEETER OUT: short FR-INST TWEETER OUT: short to ground FR-INST TWEETER OUT: short to battery	Sound signal circuits between BOSE amp. and tweeter RH are malfunctioning.	Sound signal circuits between BOSE amp. and tweeter RH.
2L-DOOR SPEAKER OUT: open 2L-DOOR SPEAKER OUT: short 2L-DOOR SPEAKER OUT: short to ground 2L-DOOR SPEAKER OUT: short to battery 2L-DOOR TWEETER OUT: open 2L-DOOR TWEETER OUT: short 2L-DOOR TWEETER OUT: short to ground 2L-DOOR TWEETER OUT: short to battery	When either one of the following items are detected: • Sound signal circuits between BOSE amp. and rear door speaker LH are malfunctioning. • sound signal circuits between BOSE amp. and rear door tweeter LH are malfunctioning.	• Sound signal circuits between BOSE amp. and rear door speaker LH. • Sound signal circuits between BOSE amp. and rear door tweeter LH.
2R-DOOR SPEAKER OUT: open 2R-DOOR SPEAKER OUT: short 2R-DOOR SPEAKER OUT: short to ground 2R-DOOR SPEAKER OUT: short to battery 2R-DOOR TWEETER OUT: open 2R-DOOR TWEETER OUT: short 2R-DOOR TWEETER OUT: short to ground 2R-DOOR TWEETER OUT: short to battery	When either one of the following items are detected: • Sound signal circuits between BOSE amp. and rear door speaker RH are malfunctioning. • Sound signal circuits between BOSE amp. and rear door tweeter RH are malfunctioning.	• Sound signal circuits between BOSE amp. and rear door speaker RH. • Sound signal circuits between BOSE amp. and rear door tweeter RH.
RL-SPEAKER OUT: open RL-SPEAKER OUT: short RL-SPEAKER OUT: short to ground RL-SPEAKER OUT: short to battery	Sound signal circuits between BOSE amp. and rear speaker LH are malfunctioning.	Sound signal circuits between BOSE amp. and rear speaker LH.
RR-SPEAKER OUT: open RR-SPEAKER OUT: short RR-SPEAKER OUT: short to ground RR-SPEAKER OUT: short to battery	Sound signal circuits between BOSE amp. and rear speaker RH are malfunctioning.	Sound signal circuits between BOSE amp. and rear speaker RH.
SUBWOOFER OUT: open SUBWOOFER OUT: short SUBWOOFER OUT: short to ground SUBWOOFER OUT: short to battery	Sound signal circuits between BOSE amp. and subwoofer are malfunctioning.	Sound signal circuits between BOSE amp. and subwoofer.
• AV COMM CIRCUIT • Switches Connection Error	When either one of the following items are detected: • Multifunction switch power supply and ground circuits were malfunctioning. • AV communication circuits between AV control unit and multifunction switch are malfunctioning.	• Multifunction switch power supply and ground circuits. • AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT • Amplifier Connection Error	When either one of the following items are detected: • BOSE amp. power supply and ground circuits are malfunctioning. • AV communication circuits between headrest display unit LH and BOSE amp. are malfunctioning.	• BOSE amp. power supply and ground circuits. Refer to AV-847, "BOSE AMP. : Diagnosis Procedure". • AV communication circuits between headrest display unit LH and BOSE amp.

Error item	Description	Possible malfunction factor/Action to take
• AV COMM CIRCUIT • AVM Connection Error	When either one of the following items are detected: • around view monitor control unit power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and around view monitor control unit are malfunctioning.	• Around view monitor control unit power supply and ground circuits. • AV communication circuits between AV control unit and around view monitor control unit.
• AV COMM CIRCUIT • Sonar Connection Error	When either one of the following items are detected: • sonar control unit power supply and ground circuits are malfunctioning. • AV communication circuits between AV control unit and sonar control unit are malfunctioning.	• Sonar control unit power supply and ground circuits. • AV communication circuits between AV control unit and sonar control unit.
• AV COMM CIRCUIT • Switches Connection Error • Sonar Connection Error • AVM Connection Error • 2nd Display Connection Error	AV communication circuits between AV control unit and multifunction switch are malfunctioning.	AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT • Switches Connection Error • Amplifier Connection Error • Sonar Connection Error • AVM Connection Error • 2nd Display Connection Error		

Vehicle CAN Diagnosis

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

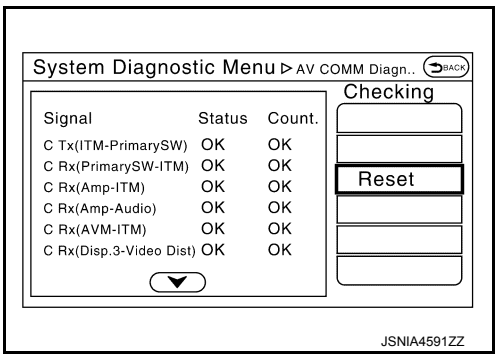


Items	Display (Current)	Malfunction counter (Past)
Tx(HVAC)	OK / ???	OK / 0 – 39
Rx(ECM)	OK / ???	OK / 0 – 39
Rx(Cluster)	OK / ???	OK / 0 – 39
Rx(HVAC)	OK / ???	OK / 0 – 39
Rx(USM)	OK / ???	OK / 0 – 39
Rx(TPMS)	OK / ???	OK / 0 – 39
Rx(STRG)	OK / ???	OK / 0 – 39
Rx(ACC)	OK / ???	OK / 0 – 39
RX(VDC)	OK / ???	OK / 0 – 39

NOTE:
“???” indicates UNKWN.

AV COMM Diagnosis

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

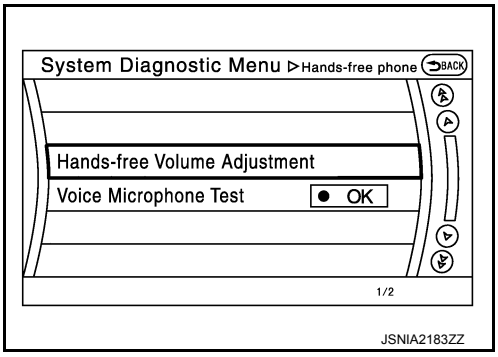


Items	Status (Current)	Counter (Past)
C Tx(ITM–PrimarySW)	OK / ???	OK / 0 – 39
C Rx(PrimarySW–ITM)	OK / ???	OK / 0 – 39
C Rx(Amp–ITM)	OK / ???	OK / 0 – 39
C Rx(Amp–Audio)	OK / ???	OK / 0 – 39
C Rx(AVM–ITM)	OK / ???	OK / 0 – 39
C Rx(Disp.3–Video Dist)	OK / ???	OK / 0 – 39
C Rx(Video Dist–ITM)	OK / ???	OK / 0 – 39
C Rx(Sonar–ITM)	OK / ???	OK / 0 – 39
C Rx(Sonar–AVM)	OK / ???	OK / 0 – 39
C Rx(R.RemoteCont–ITM)	OK / ???	OK / 0 – 39

NOTE:
“???” indicates UNKWN

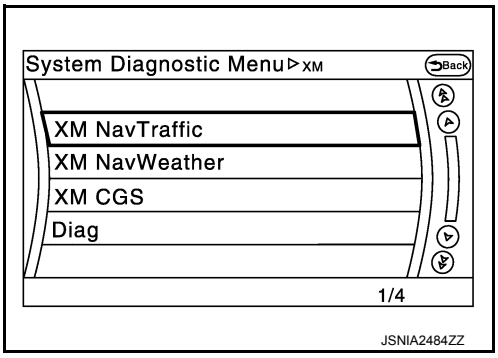
Hands-Free Phone

The hands-free phone reception volume adjustment and microphone and speaker test functions are also available.



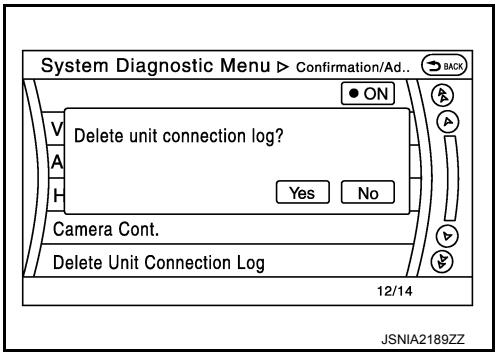
XM

- Change Channel
  - Any necessary channels required to receive traffic information from the satellite radio system can be set.
- Change Application ID
  - Any application ID'-s required to receive traffic information from the satellite radio system can be set.



Delete Unit Connection Log

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

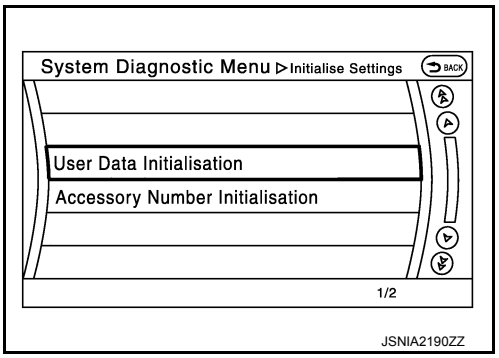


Initialize Settings

"User Data Initialization" and "Accessory Number Initialization" are possible.

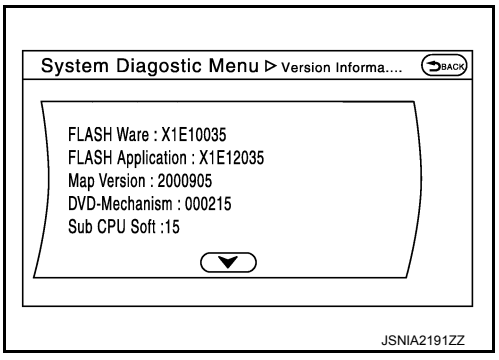
CAUTION:

- **Never perform Accessory Number Initialization except when configuration is unsuccessful.**
- **Accessory Number Initialization requires configuration. For details, refer to AV-773, "CONFIGURATION (AV CONTROL UNIT) : Description".**



Version Information

Version information of the AV control unit is displayed.



CONSULT Function

INFOID:0000000012849811

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

CONSULT FUNCTIONS

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

Direct Diagnostic Mode	Description
ECU Identification	The AV control unit part number is displayed.
Self Diagnostic Result	The AV control unit self diagnostic results are displayed.
Data Monitor	The AV control unit input/output data is displayed in real time.
Work support	The settings for AV control unit functions can be changed.
Configuration	• The vehicle specification can be read and saved. • The vehicle specification can be written when replacing AV control unit.
CAN Diag Support Mntr	• The result of transmit/receive diagnosis of AV communication is displayed. • The result of transmit/receive diagnosis of CAN communication is displayed.

ECU IDENTIFICATION

The part number of AV control unit is displayed.

SELF DIAGNOSTIC RESULT

Refer to AV-698, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
VHCL SPD SIG [On/Off]	Indicates vehicle speed signal received from combination meter on CAN communication line.
PKB SIG [On/Off]	Indicates condition of park brake signal.
ILLUM SIG [On/Off]	Indicates condition of illumination signal for the multifunction switch and preset switch.
IGN SIG [On/Off]	Indicates condition of ignition signal.
REV SIG [On/Off]	Indicates condition of reverse signal received from BCM.

WORK SUPPORT

Conditions	Description
ST ANGLE SENSOR ADJUSTMENT	Steering angle sensor neutral position adjustment can be performed. Refer to BRC-82, "Description" .

CONFIGURATION

Refer to AV-773, "CONFIGURATION (AV CONTROL UNIT) : Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-25, "CAN Diagnostic Support Monitor".

DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT)

CONSULT Function

INFOID:0000000012849812

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

CONSULT FUNCTIONS

CONSULT performs the following functions via communication with the around view monitor control unit.

Direct Diagnostic Mode	Description
ECU Identification	The around view monitor control unit part number is displayed.
Self Diagnostic Result	The around view monitor control unit self diagnostic results are displayed.
Data Monitor	The around view monitor control unit input/output data is displayed in real time.
Work support	The settings for around view monitor control unit functions can be changed.
Configuration	• The vehicle specification can be read and saved. • The vehicle specification can be written when replacing around view monitor control unit.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

ECU IDENTIFICATION

The part number of around view monitor control unit is displayed.

SELF DIAGNOSTIC RESULT

Refer to AV-718, "DTC Index".

DATA MONITOR

Monitor Item	Description
ST ANGLE SENSOR SIGNAL [On/Off]	Indicates condition of steering angle sensor signal.
REVERSE SIGNAL [On/Off]	Indicates selector lever position.
VEHICLE SPEED SIGNAL [mph/km/h]	Indicates condition of vehicle speed signal.
CAMERA SWITCH SIGNAL [On/Off]	Indicates condition of camera switch signal.
CAMERA OFF SIGNAL [On/Off]	Indicates condition of camera OFF signal.
ST ANGLE SENSOR TYPE [Absolute]	Indicates steering angle sensor type.
ST GEAR RATIO TYPE [Type O]	Indicates steering gear ratio type.
STEERING POSITION [LHD/RHD]	Indicates drive type.
REAR CAMERA IMAGE SIGNAL [OK]	Indicates condition of camera image signal.
R-CAMERA COMM STATUS [OK]	Indicates condition of camera communication.
R-CAMERA COMM LINE [OK]	Indicates condition of camera communication signal.
F-CAMERA IMAGE SIGNAL [OK]	Indicates condition of camera image signal.
F-CAMERA COMM STATUS [OK]	Indicates condition of camera communication.
F-CAMERA COMM LINE [OK]	Indicates condition of camera communication signal.
DR-SIDE CAMERA IMAGE SIG [OK]	Indicates condition of camera image signal.
DR CAMERA COMM STATUS [OK]	Indicates condition of camera communication.
DR-SIDE CAMERA COMM LINE [OK]	Indicates condition of camera communication signal.
PA-SIDE CAMERA IMAGE SIG [OK]	Indicates condition of camera image signal.
PA CAMERA COMM STATUS [OK]	Indicates condition of camera communication.
PA-SIDE CAMERA COMM LINE [OK]	Indicates condition of camera communication signal.
ACC [OK]	indicates condition of accessory signal.

Monitor Item	Description
FOLDING MOTOR VOLT 1 [On/Off]	indicates condition of mirror folding motor.
FOLDING MOTOR VOLT 2 [On/Off]	indicates condition of mirror folding motor.

WORK SUPPORT

Support Item	Setting	Description
NON-VIEWABLE AREA REMINDER	—	ON/OFF setting of non-viewable area can be performed.
INITIALIZE CAMERA IMAGE CALIBRATION	—	Factory image calibration restoration can be performed.
STEERING ANGLE SENSOR ADJUSTMENT	—	Steering angle sensor neutral position adjustment can be performed.
CALIBRATING CAMERA IMAGE (FRONT CAMERA)	STATUS	Performs calibration of front camera.
	AXIS X	
	AXIS Y	
	ROTATE	
CALIBRATING CAMERA IMAGE (PASS-SIDE CAMERA)	STATUS	Performs calibration of passenger side camera.
	AXIS X	
	AXIS Y	
	ROTATE	
CALIBRATING CAMERA IMAGE (DR-SIDE CAMERA)	STATUS	Performs calibration of driver side camera.
	AXIS X	
	AXIS Y	
	ROTATE	
CALIBRATING CAMERA IMAGE (REAR CAMERA)	STATUS	Performs calibration of rear view camera.
	AXIS X	
	AXIS Y	
	ROTATE	
FINE TUNING OF BIRDS-EYE VIEW	STATUS	Confirmation and adjustment of difference between each camera can be performed.
	SELECT	
	AXIS X	
	AXIS Y	
	ROTATE	
REAR WIDE-VIEW FIXED GUIDE LINE CORRECTION	STATUS	Performs calibration of rear wide-view guide line correction.
	AXIS X	
	AXIS Y	
	Pattern	
TURNING RADIUS CORRECTION	STATUS	Performs calibration of turning radius correction.
	Crrct	
PARTS WITH DOOR MIRROR AUTO FOLD FUNC	On	Performs setting of auto fold mirror function.
	Off	
SONAR Off POP-UP DISPLAY SETTING CHANGE	On	Performs setting of sonar pop-up display.
	Off	
FRONT WIDE-VIEW FIXED GUIDE LINE CORRECTION	STATUS	Performs calibration of front wide-view guide line correction.
	AXIS X	
	AXIS Y	
	Pattern	

Support Item	Setting	Description
ZOOM FUNCTION	STATUS	Adjustment of magnification setting of cameras can be performed.
	SELECT	
	Mgnfct	

CONFIGURATION

Refer to AV-775, "CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-25, "CAN Diagnostic Support Monitor".

DIAGNOSIS SYSTEM [SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)]

CONSULT Function

INFOID:0000000013591952

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

APPLICATION ITEMS

CONSULT can display each diagnostic item using the diagnostic test modes shown as follows:

Test mode	Function
ECU Identification	Sonar control unit part number can be read.
Self Diagnostic Result	Sonar control unit checks the conditions and displays memorized error.
Data Monitor	Sonar control unit input/output data in real time.
Active Test	Gives a drive signal to a load to check the operation.
Work support	Changes setting of each function.

ECU IDENTIFICATION

Displays the part number of sonar control unit.

SELF-DIAGNOSTIC RESULTS

For details, refer to AV-722, "DTC Index".

DATA MONITOR

Monitor Item	Description
VEHICLE SPEED [mph/km/h]	Indicates vehicle speed signal received from combination meter on CAN communication line.
SONAR C/U POWER SUPPLY [V]	Indicates condition of supply voltage signal to sonar control unit.
SENSOR VOLTAGE [V]	Indicates condition of voltage signal to sonar sensors.
DETECTION MODE [Mode 1/Mode 2]	Indicates condition of display detection mode.
SW OPRT AFTR IGN ON [Yes/No]	Indicates condition of switch operation after ignition ON signal.
SONAR TEMPORARY OFF [Yes/No]	Indicates condition of sonar system.
SONAR PERMANENT OFF [Yes/No]	Indicates condition of sonar system.
P N RANGE [On/Off]	Indicates condition of selector lever P (park) or N (neutral) position.
LED [On/Off]	Indicates condition of LED.
TRAILER CONNECT [CON/N CON]	Indicates condition of Trailer connector.
REVERSE RANGE [On/Off]	Indicates condition of transmission range switch R (reverse) position.

Monitor Item	Description
SHRT DST FRM RR SENS [cm/in]	Indicates distance to obstacle.
SHRT DST FRM FR SENS [cm/in]	
COR[RL] [cm/in]	
COR[RL]->CEN[RL]/CEN[R] [cm/in]	
CEN[RL]/CEN[R]->COR[RL] [cm/in]	
CEN[RL]/CEN[R] [cm/in]	
CEN[RL]->CEN[RR] [cm/in]	
CEN[RR]->CEN[RL] [cm/in]	
CEN[RR] [cm/in]	
CEN[RR]/CEN[R]->COR[RR] [cm/in]	
COR[RR]-> CEN[RR]/CEN[R] [cm/in]	
COR[RR] [cm/in]	
COR[FL] [cm/in]	
COR[FL]->CEN[FL]/CEN[F] [cm/in]	
CEN[FL]/CEN[F]->COR[FL] [cm/in]	
CEN[FL]/CEN[F] [cm/in]	
CEN[FL]->CEN[FR] [cm/in]	
CEN[FR]->CEN[FL] [cm/in]	
CEN[FR] [cm/in]	
CEN[FR]/CEN[F]->COR[FR] [cm/in]	
COR[FR]-> CEN[FR]/CEN[F] [cm/in]	
COR[FR] [cm/in]	
RVRB TIME COR[RL] [ms/sec]	Indicates distance to obstacle.
RVRB TIME COR[RR] [ms/sec]	
RVRB TIME CEN[RL] [ms/sec]	
RVRB TIME CEN[RR] [ms/sec]	
RVRB TIME COR[FL] [ms/sec]	
RVRB TIME COR[FR] [ms/sec]	
RVRB TIME CEN[FL] [ms/sec]	
RVRB TIME CEN[FR] [ms/sec]	

ACTIVE TEST

Test Item	Description
REAR BUZZER	This test is able to check rear buzzer operation [On/Off].

WORK SUPPORT

Support Item	Setting	Description
VOLUME SETTING	Vol.1	Allows you to set volume of warning tone.
	Low	
	Vol.3	
	Middle	
	Vol.5	
	High	
	Off	

Support Item	Setting	Description
TRAILER HITCH DETECTION RANGE ADJUSTMENT	Qu	Allows you to adjust rear sonar sensors for trailer towing.
	UP	
	DOWN	
	Qd	

ECU DIAGNOSIS INFORMATION

AV CONTROL UNIT

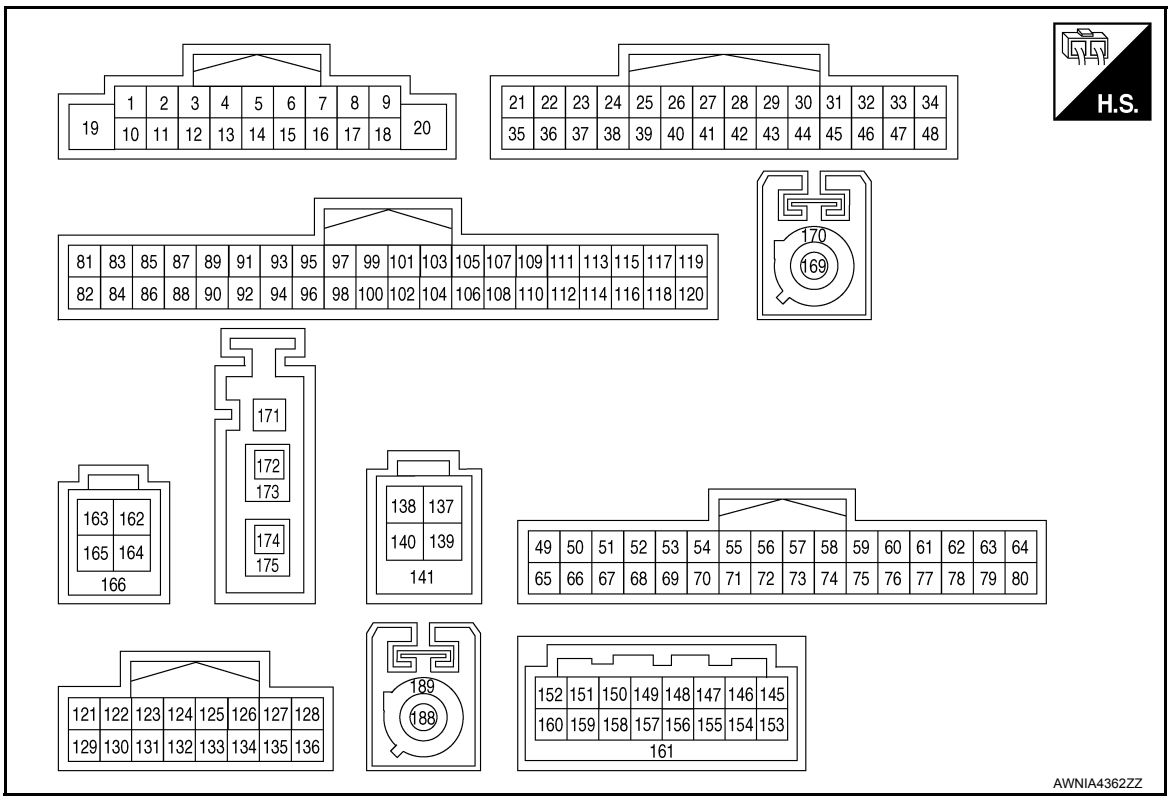
Reference Value

INFOID:0000000012849814

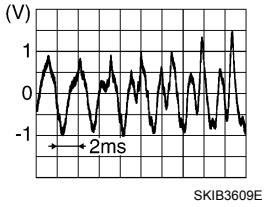
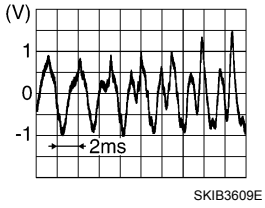
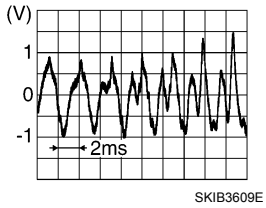
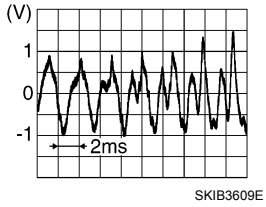
VALUES ON THE DIAGNOSIS TOOL

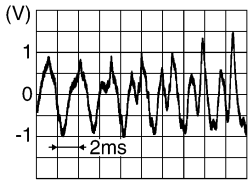
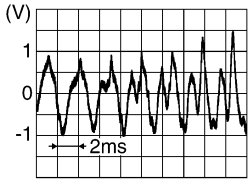
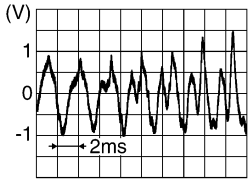
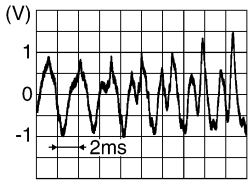
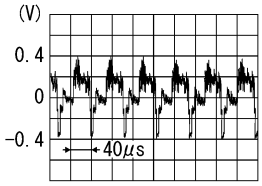
Monitor Item	Condition	Value/Status
VHCL SPD SIG	Vehicle speed = 0 km/h (0 MPH).	Off
	Vehicle speed > 0 km/h (0 MPH).	On
PKB SIG	Parking brake released.	Off
	Parking brake applied.	On
ILLUM SIG	Illumination signal is not received.	Off
	Illumination signal is received.	On
IGN SIG	Ignition switch OFF or ACC.	Off
	Ignition switch ON.	On
REV SIG	Selector lever in any position other than R.	Off
	Selector lever in R position.	On

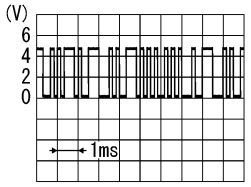
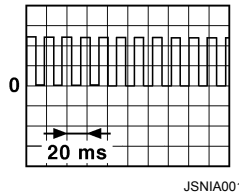
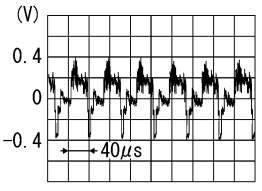
TERMINAL LAYOUT

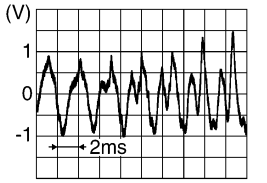
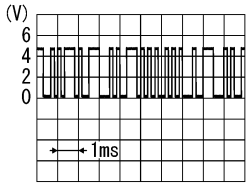
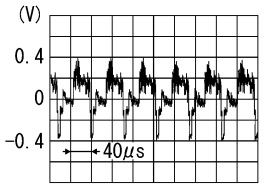
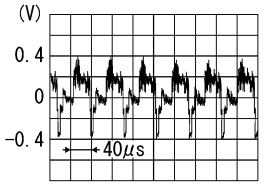


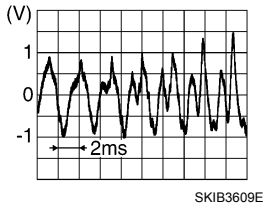
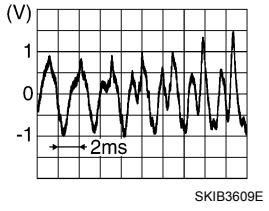
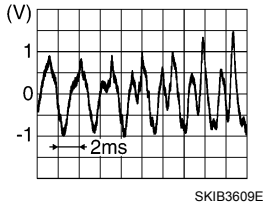
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
2 (B)	3 (W)	Pre amp sound signal front LH	Output	ON	Sound output	 SKIB3609E
4 (B)	5 (W)	Pre amp sound signal rear LH	Output	ON	Sound output	 SKIB3609E
6 (G)	15 (B)	Steering switch signal A	Input	ON	Press SOURCE switch.	0 V
					Press △ switch.	1.0 V
					Press ▽ switch.	2.0 V
					Press switch	3.0 V
					Press ENTER switch.	4.0 V
					Except for above.	5.0 V
7 (G)	Ground	ACC power supply	Input	ACC	—	Battery voltage
10 (BR)	—	Pre amp sound signal shield	—	—	—	—
11 (W)	12 (B)	Pre amp sound signal front RH	Output	ON	Sound output	 SKIB3609E
13 (B)	14 (W)	Pre amp sound signal rear RH	Output	ON	Sound output	 SKIB3609E
16 (W)	15 (B)	Steering switch signal B	Input	ON	Press switch.	0 V
					Press switch.	1.0 V
					Press switch.	2.0 V
					Press switch.	3.0 V
					Except for above.	5.0 V

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
19 (Y)	Ground	Battery power supply	Input	OFF	—	Battery voltage
20 (GR)	Ground	Ground	—	ON	—	0 V
24 (W)	39 (B)	Auxiliary sound signal LH	Input	ON	Sound output when front AUX mode selected	 SKIB3609E
26 (W)	40 (R)	Headphone sound signal LH	Output	ON	When DVD or USB mode is selected on headrest display unit LH or RH.	 SKIB3609E
27 (B)	41 (G)	Headphone sound signal RH	Output	ON	When DVD or USB mode is selected on headrest display unit LH or RH.	 SKIB3609E
37 (Shield)	—	Auxiliary sound signal shield	—	—	—	—
38 (R)	39 (B)	Auxiliary sound signal RH	Input	ON	When front AUX mode is selected.	 SKIB3609E
42 (Shield)	—	Headphone sound signal shield	—	—	—	—
53 (G)	Ground	Parking brake signal	Input	ON	Parking brake is applied.	0 V
					Parking brake is released.	Battery voltage
55 (W)	Ground	Composite image signal ground	—	ON	—	0 V
56 (B)	Ground	Composite image signal	Output	ON	When DVD image is displayed.	 SKIB2251J

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
57 (BG)	—	I-Key memory	—	—	—	—
58 (G)	—	AV-ACC (DCM)	—	—	—	—
59 (Shield)	—	Microphone signal shield	—	—	—	—
60 (W)	Ground	Microphone voltage	Output	ON	—	5.0 V
61 (W)	Ground	Communication signal (CONT→DISP)	Output	ON	When adjusting display brightness.	 PKIB5039J
62 (P)	—	CAN–L	Input/ Output	—	—	—
63 (LG)	—	AV communication signal (L)	Input/ Output	—	—	—
64 (LG)	—	AV communication signal (L) terminate	—	—	—	—
67 (P)	—	MR output	—	—	—	—
68 (LG)	Ground	Ignition signal	Input	ON	—	Battery voltage
69 (R)	Ground	Reverse signal	Input	ON	Selector lever is in R position.	Battery voltage
					Selector lever is in other than R position.	0 V
70 (BG)	Ground	Vehicle speed signal (8-pulse)	Input	ON	When vehicle speed is approx. 40 km/h (25 MPH)	**NOTE:** The maximum voltage varies depending on the specification (destination unit).  JSNIA0012GB
71 (Shield)	—	Composite image signal shield	—	—	—	—
72 (R)	Ground	Composite image synchronizing signal	Output	ON	At DVD image is displayed.	 SKIB2251J

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
75 (B)	59 (Shield)	Microphone signal	Input	ON	Give a voice.	 SKIB3609E
76 (Shield)	—	Communication signal shield	—	—	—	—
77 (B)	Ground	Communication signal (DISP→CONT)	Input	ON	When adjusting display brightness.	 PKIB5039J
78 (L)	—	CAN–H	Input/ Output	—	—	—
79 (SB)	—	AV communication signal (H)	—	—	—	—
80 (SB)	—	AV communication signal (H) terminate	—	—	—	—
91 (W)	Ground	Auxiliary image signal	Input	ON	At front AUX image is displayed.	 SKIB2251J
92 (B)	Ground	Auxiliary image signal ground	—	ON	—	0 V
94 (Shield)	—	Auxiliary image signal shield	—	—	—	—
97 (Y)	Ground	Disk eject signal	Input	ON	Pressing the eject switch.	0 V
					Except for above.	5.0 V
98 (V)	Ground	Switch ground	—	ON	—	0 V
105 (W)	Ground	Composite image signal ground	—	ON	—	0 V
106 (Shield)	—	Composite image signal shield	—	—	—	—
107 (B)	Ground	Composite image signal	Output	ON	When DVD, USB or front AUX image is displayed on headrest display unit LH or RH.	 SKIB2251J

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
122 (B)	123 (W)	Sound signal guide	Output	ON	Sound output	 SKIB3609E
124 (B)	132 (W)	Pre amp sound signal sub-woofer	Output	ON	Sound output	 SKIB3609E
125 (W)	133 (B)	Pre amp sound signal center	Output	ON	Sound output	 SKIB3609E
126 (Y)	—	Pre amp sound signal shield	—	—	—	—
131 (Shield)	—	Sound signal guide shield	—	—	—	—
137 (R)	—	VBUS signal (USB interface)	—	—	—	—
138 (B)	—	USB ground (USB interface)	—	—	—	—
139 (G)	—	USB D+ signal (USB interface)	—	—	—	—
140 (W)	—	USB D− signal (USB interface)	—	—	—	—
141 (Shield)	—	USB shield (USB interface)	—	—	—	—
145 (B)	—	USB D- signal (Telematics)	Input	—	—	—
146 (B)	—	USB VBUS signal (Telematics)	Input	—	—	—
147 (B)	—	Manufacturer specific signal (Telematics)	Input	—	—	—
151 (L)	—	VOICE ground (Telematics)	Input	—	—	—
152 (W)	—	U-VOICE signal (Telematics)	Input	—	—	—
153 (L/W)	—	USB D+ signal (Telematics)	Input	—	—	—

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
154 (Shield)	—	USB ground	—	—	—	—
160 (B)	—	D-VOICE signal (Telematics)	—	—	—	—
161 (Shield)	—	USB shield (Telematics)	—	—	—	—
164 (W)	Ground	RGB digital image signal (–)	Output	ON	Connector disconnected.	1.3 V
165 (R)	Ground	RGB digital image signal (+)	Output	ON	Connector disconnected.	1.3 V
166 (Shield)	—	Shield	—	—	—	—
169[1] (B)	Ground	Satellite radio antenna signal	Input	ON	Connector disconnected.	5.0 V
170[1] (Shield)	—	Shield	—	—	—	—
171 (B)	—	Antenna amp. ON signal	Output	ON	—	Battery voltage
172 (B)	—	AM-FM main	Input	—	—	—
173 (Shield)	—	Shield	—	—	—	—
174 (B)	—	FM sub	Input	—	—	—
175 (Shield)	—	Shield	—	—	—	—
188 (B)	Ground	GPS antenna signal	Input	ON	Connector disconnected.	5.0 V
189 (Shield)	—	GPS antenna signal shield	—	—	—	—

1: except for Mexico

Fail-Safe

INFOID:0000000012849815

When the ambient temperature becomes extremely low or extremely high, AV control unit displays a message and limits the function of the AV control unit.

FAIL-SAFE CONDITIONS

When the ambient temperature is –20°C (–4°F) or lower, or when it is 70°C (158°F) or higher.

Display

The following messages are displayed during fail-safe:

Fail-safe mode	Display
When HDD temperature is low	HDD system is experiencing problems due to extreme low temperature. Normal operation will resume when temperature rises.
When HDD temperature is high	HDD system is experiencing problems due to extreme high temperature. Normal operation will resume when temperature drops.

DESCRIPTION OF CONTROLS

Function		Fail-safe mode activated
Air conditioner	Operation	Multifunction switch can be operated.
	Display	• LEDs of multifunction switch illuminate. • Temperature, mode and blower speed are displayed in a simplified mode.
Audio	Operation	Only ON/OFF and volume control operations of preset switch are available.
	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	Inoperative.
Navigation	Operation	Inoperative.
Self diagnosis		Displays in a simplified mode.
CONSULT diagnosis		Inoperative.

Ability Operation Mode
If HDD data can be read, “Fail-safe mode” is displayed and functions listed above can be operated.

DTC Index

INFOID:0000000012849816

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

CONSULT Display	Reference Page
U1000: CAN COMM CIRCUIT	AV-785, "AV CONTROL UNIT : DTC Logic"
U1010: CONTROL UNIT (CAN)	AV-786, "AV CONTROL UNIT : DTC Logic"
U1200: CONT UNIT	AV-787, "DTC Logic"
U1201: GYRO NO CONN	AV-788, "DTC Logic"
U1202: G-SENSOR NO CONN	AV-789, "DTC Logic"
U1204: GPS COMM	AV-790, "DTC Logic"
U1205: GPS ROM	AV-791, "DTC Logic"
U1206: GPS RAM	AV-792, "DTC Logic"
U1207: GPS RTC	AV-793, "DTC Logic"
U1216: CAN CONT	AV-794, "DTC Logic"
U1217: BLUETOOTH MODULE	AV-795, "DTC Logic"
U1218: HDD CONN	AV-796, "DTC Logic"
U1219: HDD READ	AV-797, "DTC Logic"
U121A: HDD WRITE	AV-798, "DTC Logic"
U121B: HDD COMM	AV-799, "DTC Logic"
U121C: HDD ACCESS	AV-800, "DTC Logic"
U121D: DSP CONN	AV-801, "DTC Logic"
U121E: DSP COMM	AV-802, "DTC Logic"
U1225: USB CONTROLLER	AV-803, "DTC Logic"
U1227: DVD COMM	AV-804, "DTC Logic"
U1228: SUB CPU CONN	AV-805, "DTC Logic"
U1229: iPod CERTIFICATION	AV-806, "DTC Logic"
U122A: CONFIG UNFINISH	AV-807, "DTC Logic"
U122E: Built-in AUDIO CONN	AV-808, "DTC Logic"
U1231: AMP TEMP	AV-809, "DTC Logic"
U1232: ST ANGLE SEN CALIB	AV-810, "DTC Logic"

CONSULT Display	Reference Page
U1243: FRONT DISP CONN	AV-811, "DTC Logic"
U1244: GPS ANTENNA CONN	AV-813, "DTC Logic"
U1258: XM ANTENNA CONN	AV-814, "DTC Logic"
U125A: 3RD DISP CONN	AV-815, "DTC Logic"
U1263: USB OVERCURRENT	AV-816, "DTC Logic"
U1264: ANTENNA AMP TERMINAL (OPEN or SHORT)	AV-817, "DTC Logic"
• U1300: AV COMM CIRCUIT • U1240: SWITCH CONN	AV-818, "Description"
• U1300: AV COMM CIRCUIT • U124E: AMP CONN	
• U1300: AV COMM CIRCUIT • U1246: VIDEO DIST CONN	
• U1300: AV COMM CIRCUIT • U125B: AROUND CAMERA CONN	
• U1300: AV COMM CIRCUIT • U125C: SONAR CONN	
• U1300: AV COMM CIRCUIT • U1240: SWITCH CONN • U125C: SONAR CONN • U125B: AROUND CAMERA CONN • U1246: VIDEO DIST CONN	
• U1300: AV COMM CIRCUIT • U1240: SWITCH CONN • U124E: AMP CONN • U125C: SONAR CONN • U125B: AROUND CAMERA CONN • U1246: VIDEO DIST CONN	
U1310: CONTROL UNIT (AV)	AV-828, "DTC Logic"
U1601: FL-DOOR WOOFER/TWEETER (OPEN, SHORT, GND-SHORT)	AV-829, "DTC Logic"
U1603: FL-DOOR WOOFER/TWEETER (VB-SHOR)	
U1609: FR-DOOR WOOFER/TWEETER (OPEN, SHORT, GND-SHORT)	
U160B: FR-DOOR WOOFER/TWEETER (VB-SHOR)	
U1627: F-INST L-TWEETER (OPEN, SHORT, GND-SHORT or VB-SHOR)	AV-830, "DTC Logic"
U162F: F-INST R-TWEETER (OPEN, SHORT, GND-SHORT or VB-SHOR)	
U162A: F-INST C-SQAWK (OPEN, SHORT, GND-SHORT or VB-SHOR)	AV-831, "DTC Logic"
U1684: 2L-DOOR SPEAKER/TWEETER (OPEN, SHORT, GND-SHORT)	AV-832, "DTC Logic"
U1687: 2L-DOOR SPEAKER/TWEETER (VB-SHOR)	
U162C: 2R-DOOR SPEAKER/TWEETER (OPEN, SHORT, GND-SHORT)	
U162F: 2R-DOOR SPEAKER/TWEETER (VB-SHOR)	
U175D: R-LUGGAGE L-WOOFER (OPEN, SHORT, GND-SHORT or VB-SHOR)	AV-833, "DTC Logic"

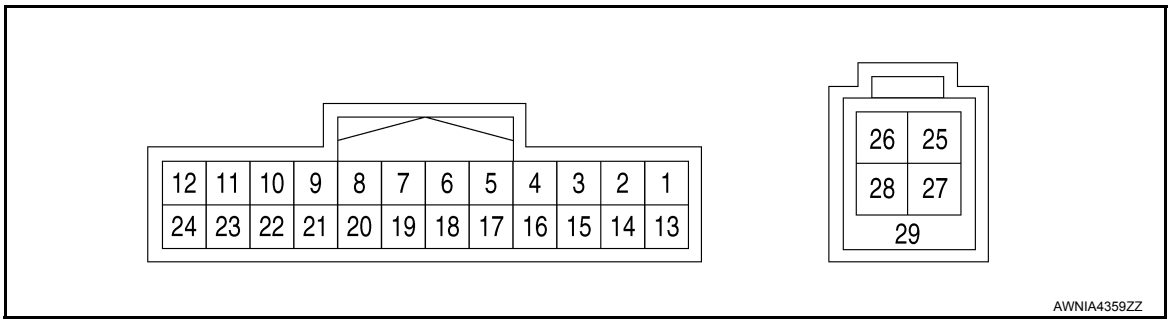
CONSULT Display	Reference Page
U176A: R-ROOF L-WK (OPEN, SHORT, GND-SHORT or VB-SHOR)	AV-834, "DTC Logic"
U1772: R-ROOF R-WK (OPEN, SHORT, GND-SHORT or VB-SHOR)	

DISPLAY UNIT

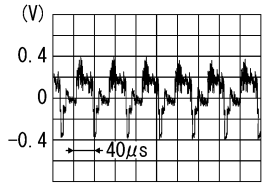
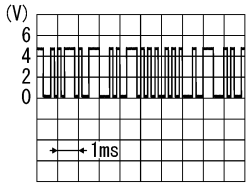
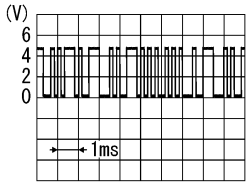
Reference Value

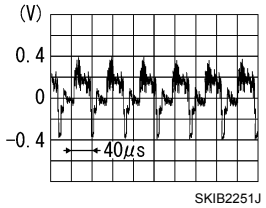
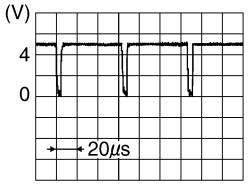
INFOID:0000000012849817

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
6 (Shield)	—	Composite image signal shield	—	—	—	—
7 (Shield)	—	Camera image signal shield	—	—	—	—
8 (B)	Ground	Camera image signal	Input	ON	When camera image is displayed	 SKIB2251J
9 (B)	Ground	Communication signal (DISP→CONT)	Output	ON	When adjusting display brightness	 PKIB5039J
10 (W)	Ground	Communication signal (CONT→DISP)	Input	ON	When adjusting display brightness	 PKIB5039J
11 (Y)	Ground	Battery power supply	Input	OFF	—	Battery voltage
12 (B)	Ground	Ground	—	ON	—	0 V

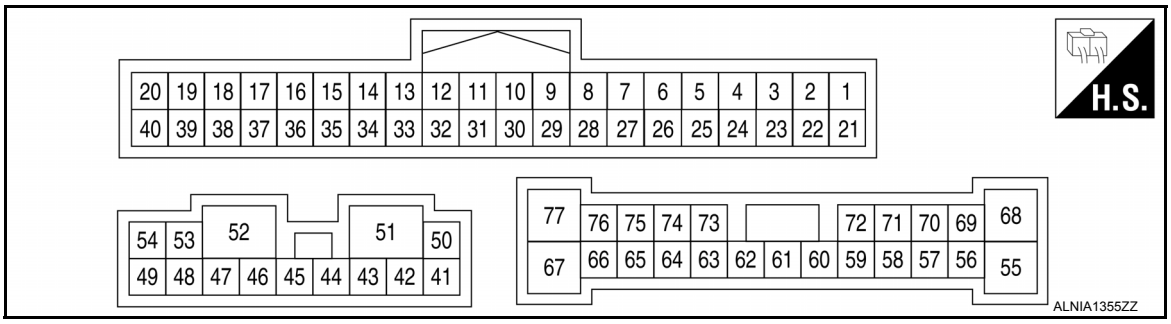
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
18 (B)	Ground	Composite image signal	Input	ON	When DVD image is displayed.	 SKIB2251J
19 (W)	Ground	Composite image signal ground	—	ON	—	0 V
20 (R)	Ground	Composite image synchronizing signal	Input	ON	—	 SKIB0825E
22 (Shield)	—	Communication signal shield	—	—	—	—
23 (P)	Ground	ACC power supply	Input	ACC	—	Battery voltage
27 (W)	—	RGB digital image signal (–)	Input	—	—	—
28 (R)	—	RGB digital image signal (+)	Input	—	—	—
29 (Shield)	—	Shield	—	—	—	—

BOSE AMP.

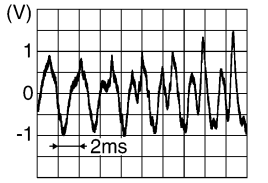
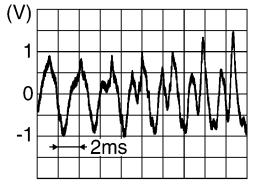
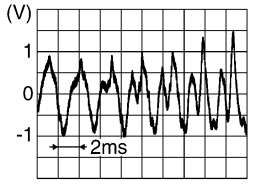
Reference Value

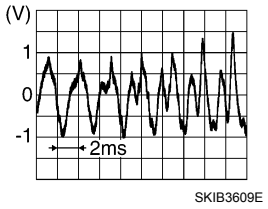
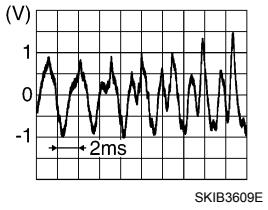
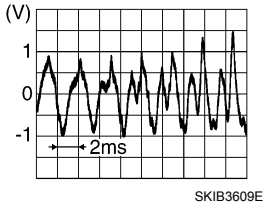
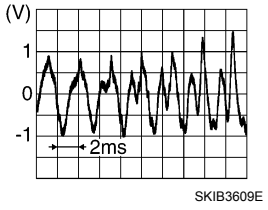
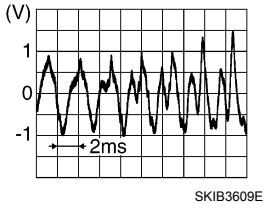
INFOID:0000000012849818

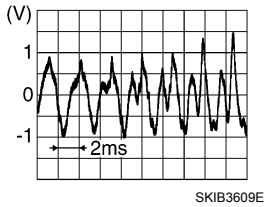
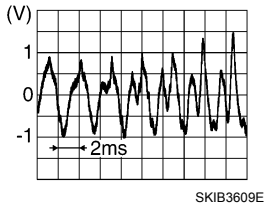
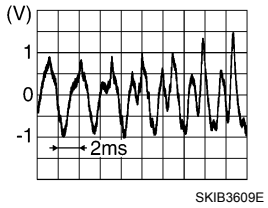
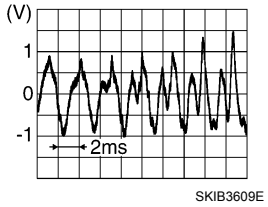
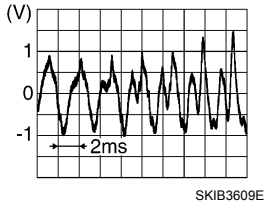
TERMINAL LAYOUT

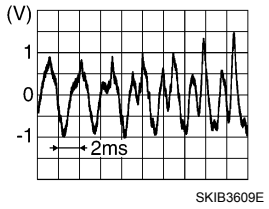
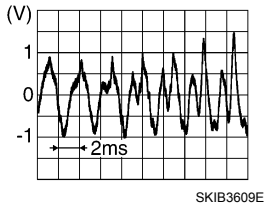
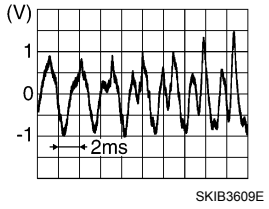
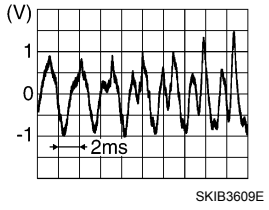
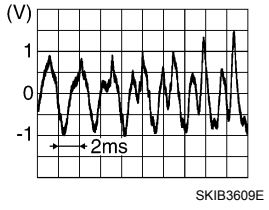


PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
14 (B)	—	AV communication signal (H) terminate	—	—	—	—
15[1] (B) / 15[2] (LG)	—	AV communication signal (L)	—	—	—	—
16 (W)	Ground	ACC power supply	Input	ACC	—	Battery voltage
24 (B)	4 (W)	Sound signal guide	Input	ON	Sound output	 SKIB3609E
25 (B)	5 (W)	Pre amp sound signal front LH	Input	ON	Sound output	 SKIB3609E
26 (B)	6 (W)	Pre amp sound signal front RH	Input	ON	Sound output	 SKIB3609E

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
27 (B)	7 (W)	Pre amp sound signal rear LH	Input	ON	Sound output	 SKIB3609E
28 (B)	8 (W)	Pre amp sound signal rear RH	Input	ON	Sound output	 SKIB3609E
29 (B)	9 (W)	Pre amp sound signal center	Input	ON	Sound output	 SKIB3609E
30 (B)	10 (W)	Pre amp sound signal subwoofer	Input	ON	Sound output	 SKIB3609E
34 (W)	—	AV communication signal (H) terminate	—	—	—	—
35[1] (W)	—	AV communication signal (H)	—	—	—	—
35[2] (B/Y)						
39 (B)	—	AV communication signal shield	—	—	—	—
41 (G)	42 (W)	Sound signal front door speaker and front door tweeter RH	Output	ON	Sound output	 SKIB3609E

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
43 (R)	44 (G)	Sound signal subwoofer 2	Output	ON	Sound output	 SKIB3609E
45 (G)	46 (R)	Sound signal front door speaker and front door tweeter LH	Output	ON	Sound output	 SKIB3609E
47 (B)	—	Ground	—	ON	—	0 V
50 (LG)	Ground	Battery power supply	Input	OFF	—	Battery voltage
51 (Y)	Ground	Battery power supply	Input	OFF	—	Battery voltage
52 (B)	—	Ground	—	ON	—	0 V
53 (W)	48 (B)	Sound signal subwoofer 1	Output	ON	Sound output	 SKIB3609E
54 (B)	49 (W)	Sound signal tweeter RH	Output	ON	Sound output	 SKIB3609E
56 (P)	69 (R)	Sound signal rear door speaker and rear door tweeter LH	Output	ON	Sound output	 SKIB3609E

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
57 (P)	58 (R)	Sound signal center speaker	Output	ON	Sound output	 SKIB3609E
62 (W)	73 (G)	Sound signal rear side speaker LH	Output	ON	Sound output	 SKIB3609E
63 (W)	74 (G)	Sound signal rear side speaker RH	Output	ON	Sound output	 SKIB3609E
64 (G)	75 (W)	Sound signal rear door speaker and rear door tweeter RH	Output	ON	Sound output	 SKIB3609E
71 (R)	70 (G)	Sound signal tweeter LH	Output	ON	Sound output	 SKIB3609E

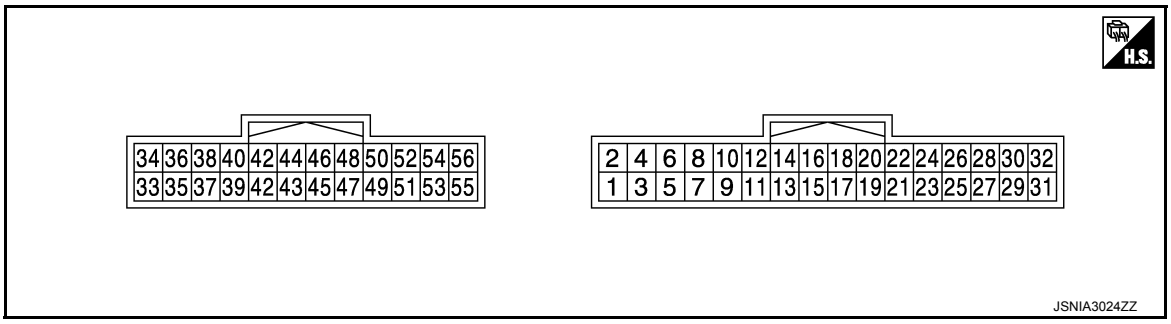
1: without rear entertainment system
2: with rear entertainment system

VIDEO DISTRIBUTOR

Reference Value

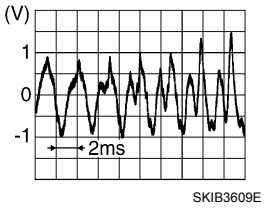
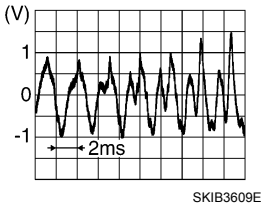
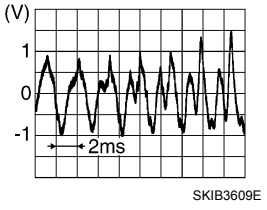
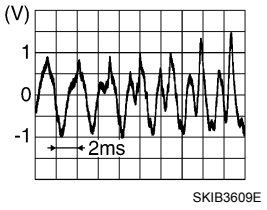
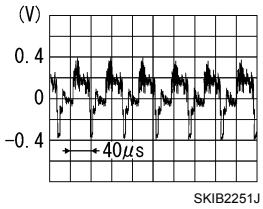
INFOID:0000000012849819

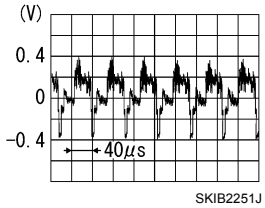
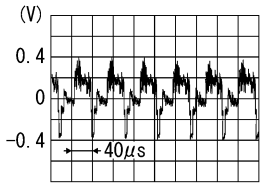
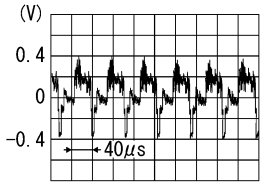
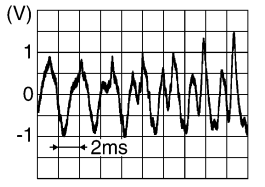
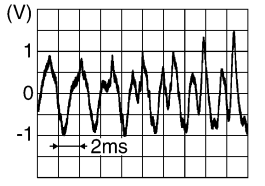
TERMINAL LAYOUT

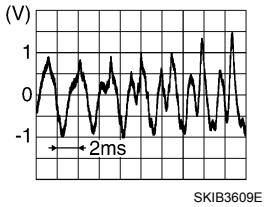
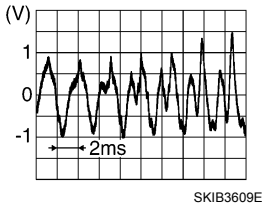


PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (B)	—	Ground	—	ON	—	0 V
2 (V)	Ground	Battery power supply	Input	OFF	—	Battery voltage
3 (B)	—	Ground	—	ON	—	0 V
4 (BG)	Ground	ACC power supply	Input	ACC	—	Battery voltage
5 (BR)	Ground	Headrest display unit RH control ground	—	ON	—	0 V
6 (Y)	Ground	Headrest display unit RH ACC signal	Output	OFF	—	3.3 V
				ACC	—	0 V
7 (SB)	Ground	Headrest display unit LH control ground	—	ON	—	0 V
8 (BR)	Ground	Headrest display unit RH ACC signal	Output	OFF	—	3.3 V
				ACC	—	0 V
9 (SB)	Ground	Headrest display unit RH image switch signal	Input	ON	When DVD, USB or front AUX image is displayed on headrest display unit RH.	0.5 V
					When rear AUX image is displayed on headrest display unit RH.	4.5 V
10 (L)	Ground	Headrest display unit LH image switch signal	Input	ON	When DVD, USB or front AUX image is displayed on headrest display unit LH.	0.5 V
					When rear AUX image is displayed on headrest display unit LH.	4.5 V

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
14 (R)	15 (G)	Headrest display unit RH headphone sound signal RH	Output	ON	Output headphone sound from headrest display unit RH to headphone.	 SKIB3609E
16 (B)	17 (W)	Headrest display unit RH headphone sound signal LH	Output	ON	Output headphone sound from headrest display unit RH to headphone.	 SKIB3609E
18 (V)	Ground	Headrest display unit RH AV ground	—	ON	—	0 V
19 (V)	Ground	Headrest display unit LH AV ground	—	ON	—	0 V
20 (B)	21 (G)	Headrest display unit LH headphone sound signal RH	Output	ON	Output headphone sound from headrest display unit LH to headphone.	 SKIB3609E
22 (W)	23 (R)	Headrest display unit LH headphone sound signal LH	Output	ON	Output headphone sound from headrest display unit LH to headphone.	 SKIB3609E
27 (W)	Ground	Headrest display unit RH composite image signal ground	—	ON	—	0 V
28 (B)	Ground	Headrest display unit RH composite image signal	Output	ON	When DVD, USB, front AUX or rear AUX image is displayed on headrest display unit RH.	 SKIB2251J
29 (Shield)	—	Headrest display unit RH composite image signal shield	—	—	—	—
30 (Shield)	—	Headrest display unit LH composite image signal shield	—	—	—	—

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
31 (P)	Ground	Headrest display unit LH composite image signal ground	—	ON	—	0 V
32 (L)	Ground	Headrest display unit LH composite image signal	Output	ON	When DVD, USB, front AUX or rear AUX image is displayed on headrest display unit LH.	 SKIB2251J
33 (W)	Ground	Composite image signal ground	—	ON	—	0 V
34 (B)	Ground	Composite image signal	Input	ON	When DVD, USB or front AUX image is displayed on headrest display unit LH or RH.	 SKIB2251J
35 (Shield)	—	Composite image signal shield	—	—	—	—
40 (B)	39 (W)	Auxiliary image signal	Input	ON	When rear AUX image is displayed on headrest display unit LH or RH.	 SKIB2251J
41 (Shield)	—	Auxiliary image signal shield	—	—	—	—
45 (W)	46 (R)	Headphone sound signal LH	Input	ON	When DVD, USB or front AUX mode is selected on headrest display unit LH or RH.	 SKIB3609E
47 (B)	48 (G)	Headphone sound signal RH	Input	ON	When DVD, USB or front AUX mode is selected on headrest display unit LH or RH.	 SKIB3609E
49 (Shield)	—	Headphone sound signal shield	—	—	—	—
53 (Shield)	—	Auxiliary sound signal shield	—	—	—	—

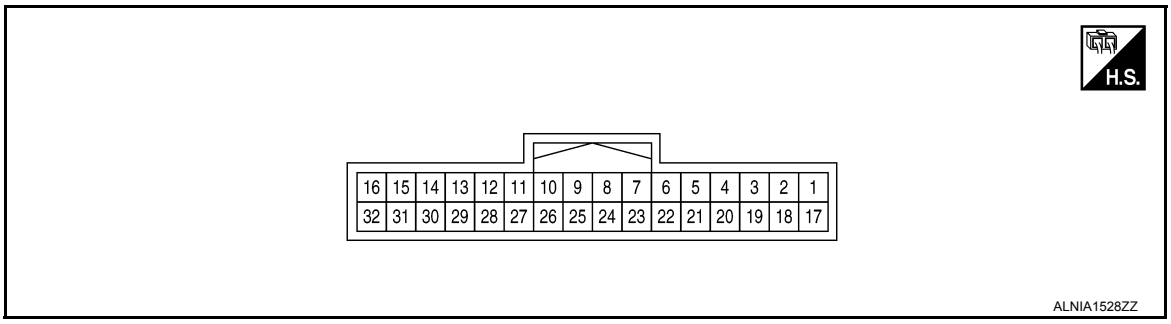
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
54 (B)	56 (W)	Auxiliary sound signal LH	Input	ON	When rear AUX mode is selected on headrest display unit LH or RH.	 SKIB3609E
55 (R)	56 (W)	Auxiliary sound signal RH	Input	ON	When rear AUX mode is selected on headrest display unit LH or RH.	 SKIB3609E

HEADREST DISPLAY UNIT

Reference Value

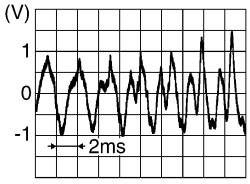
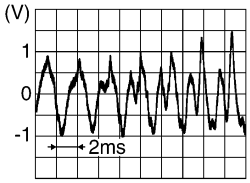
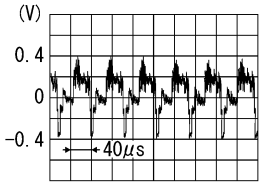
INFOID:0000000012849820

TERMINAL LAYOUT



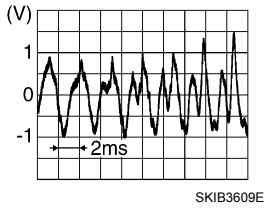
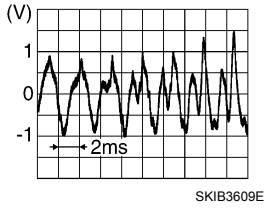
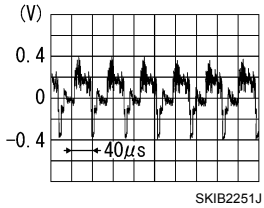
PHYSICAL VALUES

Driver Seat

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (W)	17 (B)	Headphone sound signal LH	Input	ON	Headphone sound output	 SKIB3609E
2 (G)	18 (R)	Headphone sound signal RH	Input	ON	Headphone sound output	 SKIB3609E
3 (LG)	—	Headphone sound signal shield	—		—	—
5 (Y)	Ground	Composite image signal	Input	ON	When DVD, USB or front AUX image is displayed on headrest display unit	 SKIB2251J
7 (W)	Ground	Image switch signal	Output	ON	When DVD, USB or front AUX image is displayed on headrest display unit	0.5 V
					When rear AUX image is displayed on headrest display unit	4.5 V
8 (G)	Ground	ACC signal	Input	OFF	—	3.3 V
				ACC	—	0 V

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
10 (LG)	—	AV communication signal 1 (L)	Input/ Output	—	—	—
11 (P)	—	AV communication signal 1 (H)	Input/ Output	—	—	—
12 (G)	Ground	Ground	—	ON	—	0 V
13 (BR)	Ground	Illumination	Input	OFF	—	Battery voltage
15 (W)	Ground	Battery power supply	Input	OFF	—	Battery voltage
16 (W)	Ground	Battery power supply	Input	OFF	—	Battery voltage
19 (V)	Ground	AV ground	—	ON	—	0 V
20 (P)	—	Composite image signal shield	—	—	—	—
21 (G)	Ground	Composite image signal ground	—	ON	—	0 V
23 (Y)	Ground	Control ground	—	ON	—	0 V
24 (SB)	—	CON CK B	Input/ Output	—	—	—
26 (R)	—	AV communication signal 2 (L)	Input/ Output	—	—	—
27 (LG)	—	AV communication signal 2 (H)	Input/ Output	—	—	—
29 (GR)	—	CON CK A	Input/ Output	—	—	—
31 (G)	Ground	Ground	—	ON	—	0 V
32 (G)	Ground	Ground	—	ON	—	0 V

Passenger Seat

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (W)	17 (B)	Headphone sound signal LH	Input	ON	Headphone sound output	 SKIB3609E
2 (G)	18 (R)	Headphone sound signal RH	Input	ON	Headphone sound output	 SKIB3609E
3 (LG)	—	Headphone sound signal shield	—		—	—
5 (Y)	Ground	Composite image signal	Input	ON	When DVD, USB or front AUX image is displayed on headrest display unit	 SKIB2251J
7 (W)	Ground	Image switch signal	Output	ON	When DVD, USB or front AUX image is displayed on headrest display unit	0.5 V
					When rear AUX image is displayed on headrest display unit	4.5 V
8 (G)	Ground	ACC signal	Input	OFF	—	3.3 V
				ACC	—	0 V
10 (LG)	—	AV communication signal 1 (L)	Input/ Output	—	—	—
11 (P)	—	AV communication signal 1 (H)	Input/ Output	—	—	—
13 (BR)	Ground	Illumination	Input	OFF	—	Battery voltage
15 (W)	Ground	Battery power supply	Input	OFF	—	Battery voltage
16 (W)	Ground	Battery power supply	Input	OFF	—	Battery voltage
19 (V)	Ground	AV ground	—	ON	—	0 V
20 (P)	—	Composite image signal shield	—	—	—	—
21 (G)	Ground	Composite image signal ground	—	ON	—	0 V
23 (Y)	Ground	Control ground	—	ON	—	0 V

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
24 (SB)	—	CON CK B	Input/ Output	—	—	—
26 (R)	—	AV communication signal 2 (L)	Input/ Output	—	—	—
27 (LG)	—	AV communication signal 2 (H)	Input/ Output	—	—	—
28 (G)	Ground	Ground	—	ON	—	0 V
29 (GR)	—	CON CK A	Input/ Output	—	—	—
31 (G)	Ground	Ground	—	ON	—	0 V
32 (G)	Ground	Ground	—	ON	—	0 V

AROUND VIEW MONITOR CONTROL UNIT

Reference Value

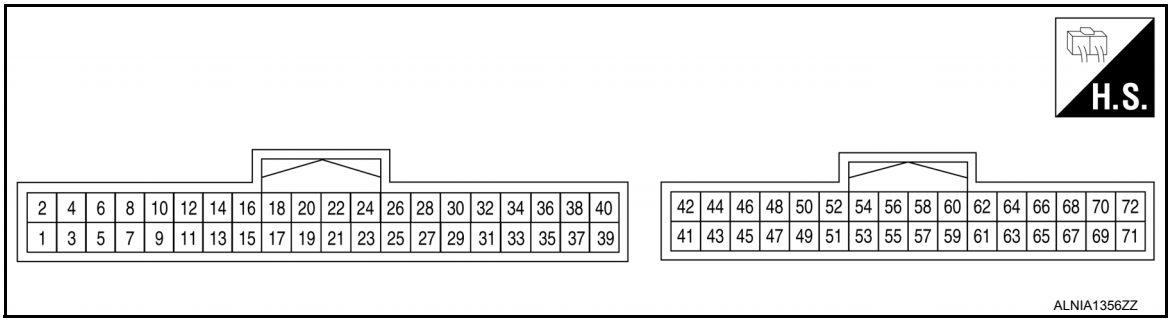
INFOID:0000000012849821

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ACC	Ignition switch in any position except ACC.	NG
	Ignition switch in ACC position.	OK
CAMERA OFF SIGNAL	CAMERA switch ON.	Off
	CAMERA switch OFF.	On
CAMERA SWITCH SIGNAL	CAMERA switch OFF.	Off
	CAMERA switch ON.	On
DR CAMERA COMM STATUS	Side camera LH inoperative.	NG
	Side camera LH operative.	OK
DR-SIDE CAMERA COMM LINE	Side camera LH inoperative.	NG
	Side camera LH operative.	OK
DR-SIDE CAMERA IMAGE SIG	Side camera LH inoperative.	NG
	Side camera LH operative.	OK
F-CAMERA COMM LINE	Front camera inoperative.	NG
	Front camera operative.	OK
F-CAMERA COMM STATUS	Front camera inoperative.	NG
	Front camera operative.	OK
F-CAMERA IMAGE SIG	Front camera inoperative.	NG
	Front camera operative.	OK
FOLDING MOTOR VOLT 1	Door mirror LH not in fold position.	Off
	Door mirror LH in fold position.	On
FOLDING MOTOR VOLT 2	Door mirror RH not in fold position.	Off
	Door mirror RH in fold position.	On
PA CAMERA COMM STATUS	Side camera RH inoperative.	NG
	Side camera RH operative.	OK
PA-SIDE CAMERA COMM LINE	Side camera RH inoperative.	NG
	Side camera RH operative.	OK
PA-SIDE CAMERA IMAGE SIG	Side camera RH inoperative.	NG
	Side camera RH operative.	OK
R-CAMERA COMM LINE	Rear view camera inoperative.	NG
	Rear view camera operative.	OK
R-CAMERA COMM STATUS	Rear view camera inoperative.	NG
	Rear view camera operative.	OK
REAR CAMERA IMAGE SIGNAL	Rear view camera inoperative.	NG
	Rear view camera operative.	OK
REVERSE SIGNAL	When selector lever is in any position other than R (reverse).	Off
	When selector lever in R (reverse).	On
ST ANGLE SENSOR SIGNAL	Around view monitor control unit is not receiving steering angle sensor signal.	Off
	Around view monitor control unit is receiving steering angle sensor signal.	On

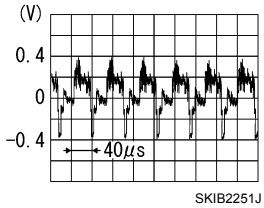
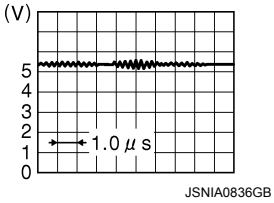
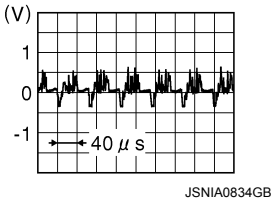
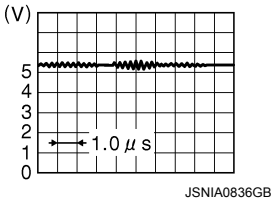
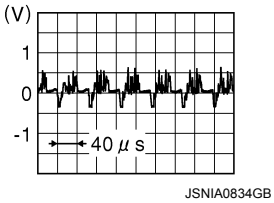
Monitor Item	Condition	Value/Status
ST ANGLE SENSOR TYPE	Steering angle sensor type.	Absolute
ST GEAR RATIO TYPE	Steering gear ratio type.	Type O
STEERING POSITION	Left hand drive vehicle.	LHD
	Right hand drive vehicle.	RHD
VEHICLE SPEED SIGNAL	While driving, equivalent to speedometer reading	mph, km/h

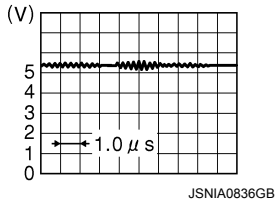
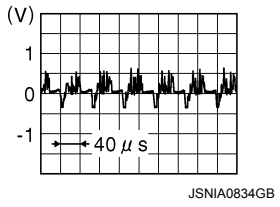
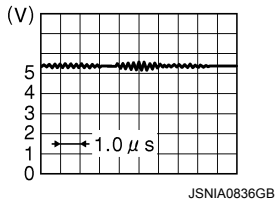
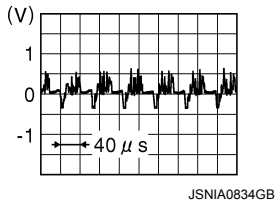
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (B)	Ground	Ground	—	ON	—	0 V
2 (Y)	Ground	Battery power supply	Input	OFF	—	Battery voltage
3 (LG)	Ground	Ignition signal	Input	ON	—	Battery voltage
4 (P)	Ground	ACC power supply	Input	ACC	—	Battery voltage
19 (B)	—	AV communication signal 1 (H)	Input/ Output	—	—	—
20 (W)	—	AV communication signal 1 (L)	Input/ Output	—	—	—
23 (Shield)	—	AV communication signal shield	—	—	—	—
25 (LG)	Ground	Reverse signal	Input	ON	R position	Battery voltage
					Other than R position	0 V
27 (B)	—	CAN (H)	—	—	—	—
28 (W)	—	CAN (L)	—	—	—	—
29 (Shield)	—	CAN shield	—	—	—	—
30 (W)	—	Mirror signal 2	—	—	—	—
32 (G)	—	Mirror signal 1	—	—	—	—

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
47 (B)	Ground	Camera image signal	Output	ON	At camera image display	 SKIB2251J
48 (Shield)	—	Camera image signal shield	—	—	—	—
49 (W)	Ground	Rear view camera communication signal	Input/ Output	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0836GB
50 (B)	Ground	Rear view camera power supply	Output	ON	“CAMERA” switch is ON or shift position is “R”.	6.0 V
52 (R)	Ground	Rear view camera ground	—	ON	—	0 V
53 (G)	54 (Shield)	Rear view camera image signal	Input	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0834GB
55 (B)	Ground	Side camera LH communication signal	Input/ Output	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0836GB
56 (W)	Ground	Side camera LH power supply	Output	ON	“CAMERA” switch is ON or shift position is “R”.	6.0 V
58 (G)	Ground	Side camera LH ground	—	ON	—	0 V
59 (R)	60 (Shield)	Side camera LH image signal	Input	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0834GB

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
61 (W)	Ground	Side camera RH communication signal	Input/ Output	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0836GB
62 (B)	Ground	Side camera RH power supply	Output	ON	“CAMERA” switch is ON or shift position is “R”.	6.0 V
64 (R)	Ground	Side camera RH ground	—	ON	—	0 V
65 (G)	66 (Shield)	Side camera RH image signal	Input	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0834GB
67 (B)	Ground	Front camera communication signal	Input/ Output	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0836GB
68 (W)	Ground	Front camera power supply	Output	ON	“CAMERA” switch is ON or shift position is “R”.	6.0 V
70 (G)	Ground	Front camera ground	—	ON	—	0 V
71 (R)	72 (Shield)	Front camera image signal	Input	ON	“CAMERA” switch is ON or shift position is “R”.	 JSNIA0834GB

DTC Index

INFOID:0000000012849822

CONSULT Display	Reference Page
U1302: CAMERA SUPPLY POWER SUPPLY VOLTAGE ABNORMALITY	AV-820, "DTC Logic"
U1303: LED SUPPLY POWER SUPPLY VOLTAGE ABNORMALITY	AV-824, "DTC Logic"
U1304: NON-COMPLETION OF THE CALIBRATION	AV-826, "DTC Logic"
U1305: NON-COMPLETION OF THE WRITE CONFIGURATION	AV-827, "DTC Logic"

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

Reference Value

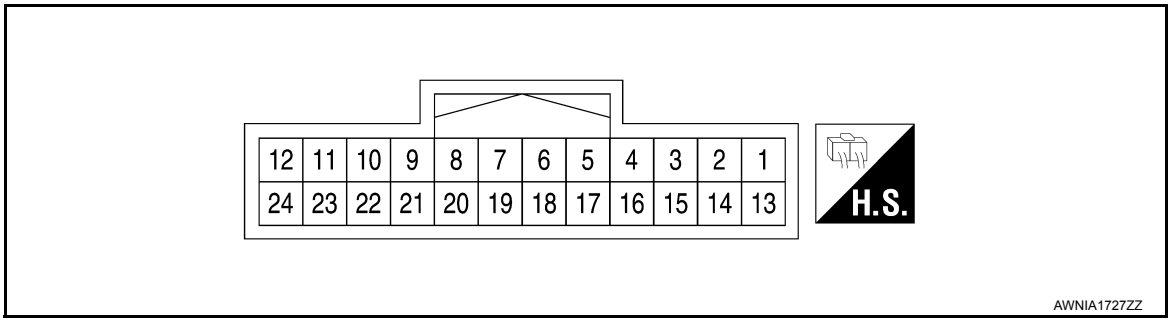
INFOID:0000000013591953

VALUES ON THE DIAGNOSIS TOOL

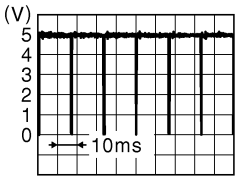
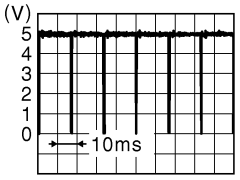
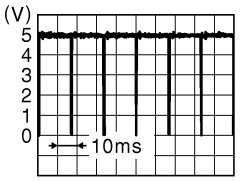
Monitor Item	Condition	Value/Status
CEN[FL]/CEN[F]	Key ON, selector lever in R (reverse) position.	cm/in
CEN[FL]/CEN[F]->COR[FL]		
CEN[FL]->CEN[FR]		
CEN[FR]		
CEN[FR]/CEN[F]->COR[FR]		
CEN[FR]->CEN[FL]		
CEN[RL]/CEN[R]		
CEN[RL]/CEN[R]->COR[RL]		
CEN[RL]->CEN[RR]		
CEN[RR]		
CEN[RR]/CEN[R]->COR[RR]		
CEN[RR]->CEN[RL]		
COR[FL]		
COR[FR]		
COR[RL]		
COR[RR]		
COR[RL]->CEN[RL]/CEN[R]		
COR[RR]->CEN[RR]/CEN[R]		
DETECTION MODE	Key ON.	Mode 1
		Mode 2
LED	When LED is OFF.	Off
	When LED is ON.	On
P N RANGE	When selector lever is in any position other than P (park) or N (neutral).	Off
	When selector lever in P (park) or N (neutral) position.	On
REVERSE RANGE	When transmission range switch is in any position other than R (reverse).	Off
	When transmission range switch is in R (reverse) position.	On
RVRB TIME CEN[FL]	Key ON, selector lever in R (reverse) position.	ms/sec
RVRB TIME CEN[FR]		
RVRB TIME CEN[RL]		
RVRB TIME CEN[RR]		
RVRB TIME COR[FL]		
RVRB TIME COR[FR]		
RVRB TIME COR[RL]		
RVRB TIME COR[RR]		
SENSOR VOLTAGE		5.0 V
SHRT DST FRM FR SENS		cm/in
SHRT DST FRM RR SENS		
SONAR C/U POWER SUPPLY	Key ON.	Battery voltage

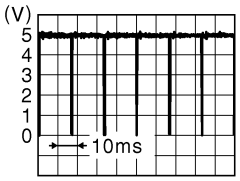
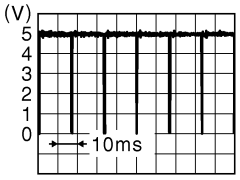
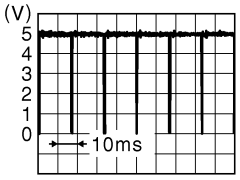
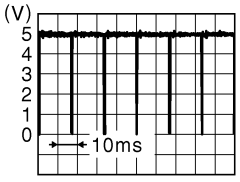
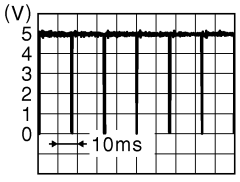
Monitor Item	Condition	Value/Status
SONAR PERMANENT OFF	CAMERA switch ON.	No
	CAMERA switch OFF.	Yes
SONAR TEMPORARY OFF	Key ON, selector lever in R (reverse) position.	No
	When selector lever is in any position other than R (reverse).	Yes
SW OPRT AFTR IGN ON	CAMERA switch OFF after Key ON.	No
	CAMERA switch ON after Key ON.	Yes
TRAILER CONNECT	No trailer connected to trailer hitch.	N CON
	Trailer connected to trailer hitch.	CON
VEHICLE SPEED	While driving, equivalent to speedometer reading	mph, km/h

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
1 (B)	13 (B)	Inner sensor signal front RH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
2 (B)	13 (B)	Inner sensor signal front LH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
3 (R)	13 (B)	Outer sensor signal front LH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output	Ignition switch	Operation	
4 (R)	13 (B)	Outer sensor signal front RH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
5 (B)	—	V-CAN (H)	Input/ Output	—	—	—
6 (W)	—	V-CAN (L)	Input/ Output	—	—	—
9 (B)	14 (B)	Inner sensor signal rear RH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
10 (B)	14 (B)	Outer sensor signal rear RH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
12 (LG)	Ground	Ignition signal	Input	ON	—	Battery voltage
15 (GR)	Ground	Ground	—	ON	—	0 V
19 (BR)	20 (LG)	Buzzer	Input	ON	CAMERA mode or Selector lever R (reverse) position	Battery voltage
21 (B)	14 (B)	Inner sensor signal rear LH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB
22 (W)	14 (B)	Outer sensor signal rear LH	Input	ON	CAMERA mode or Selector lever R (reverse) position	 JSNIA0837GB

DTC Index

INFOID:0000000012849824

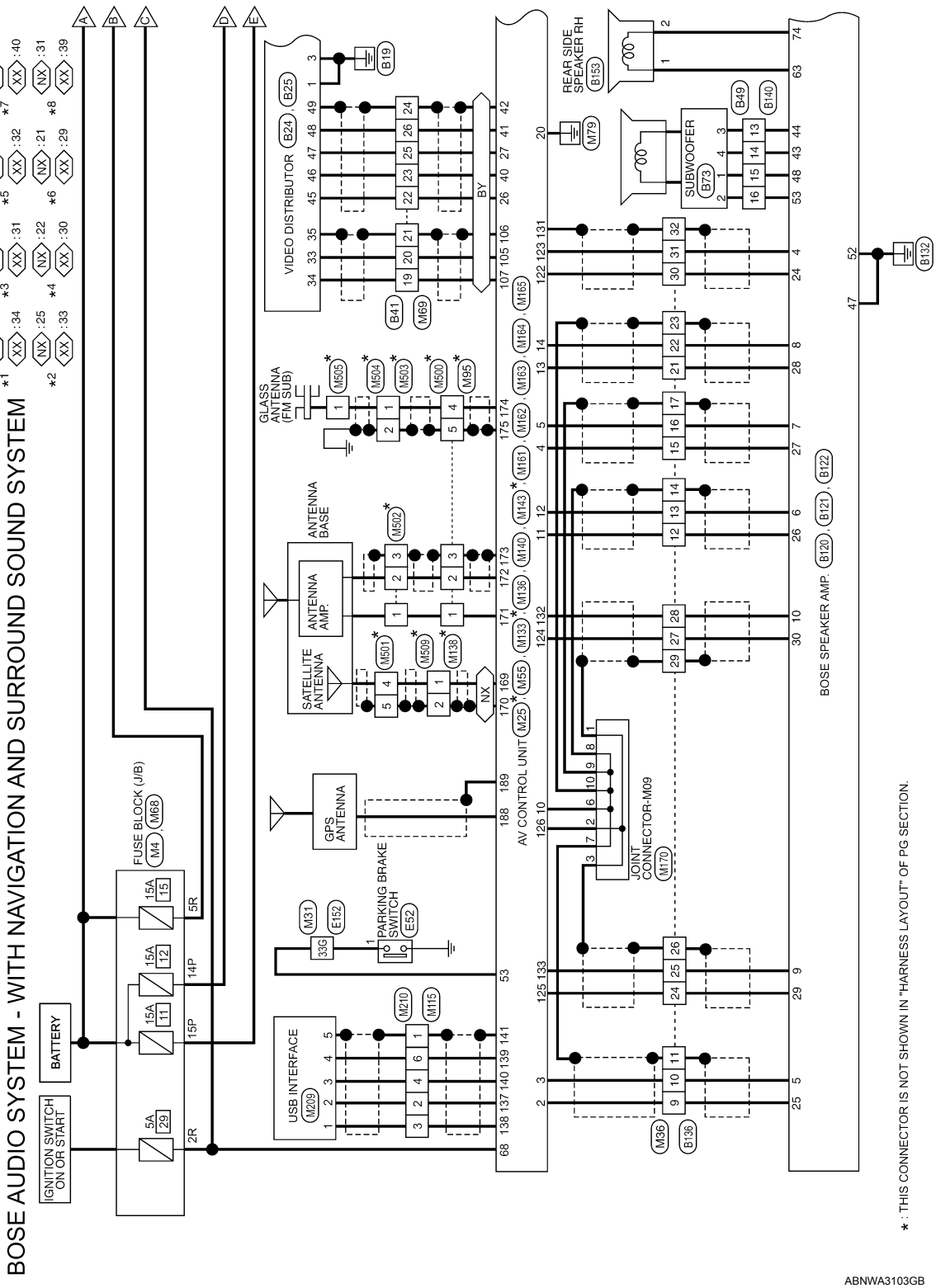
CONSULT Display	Reference Page
U1000: CAN COMM CIRCUIT	AV-785, "SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : DTC Logic"
U1010: CONTROL UNIT (CAN)	AV-786, "SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : DTC Logic"
B2720: REAR LEFT SIDE EXTERNAL SENSOR	AV-835, "DTC Logic"
B2721: REAR LEFT SIDE INTERNAL SENSOR	AV-836, "DTC Logic"
B2722: REAR RIGHT SIDE INTERNAL SENSOR	AV-837, "DTC Logic"
B2723: REAR RIGHT SIDE EXTERNAL SENSOR	AV-838, "DTC Logic"
B2724: ECU	AV-839, "DTC Logic"
B2725: REAR BUZZER	AV-840, "DTC Logic"
B2729: FRONT LEFT SIDE EXTERNAL SENSOR	AV-842, "DTC Logic"
B272A: FRONT LEFT SIDE INTERNAL SENSOR	AV-843, "DTC Logic"
B272B: FRONT RIGHT SIDE INTERNAL SENSOR	AV-844, "DTC Logic"
B272C: FRONT RIGHT SIDE EXTERNAL SENSOR	AV-845, "DTC Logic"

WIRING DIAGRAM

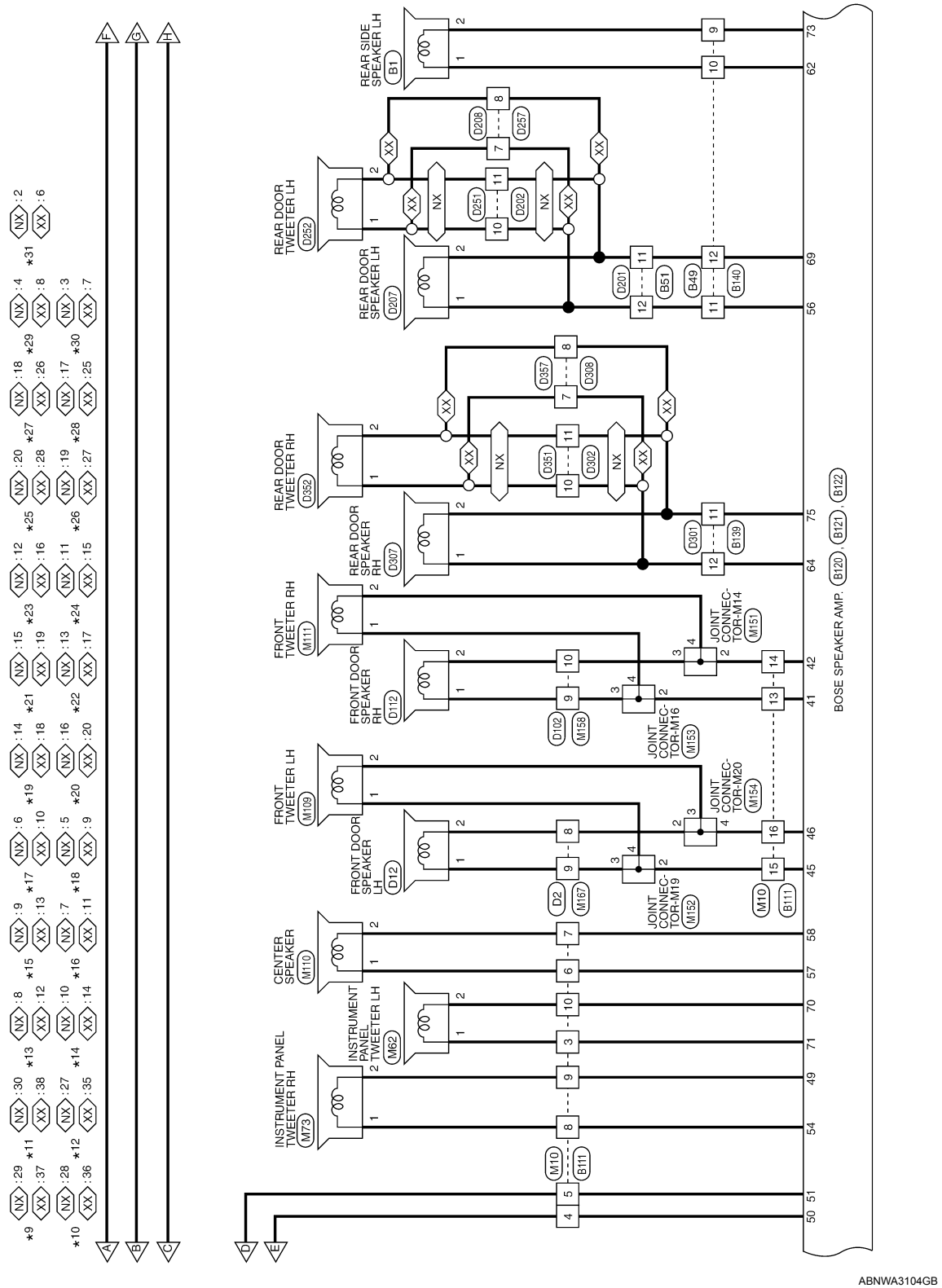
BOSE AUDIO W/NAVI W/SURROUND

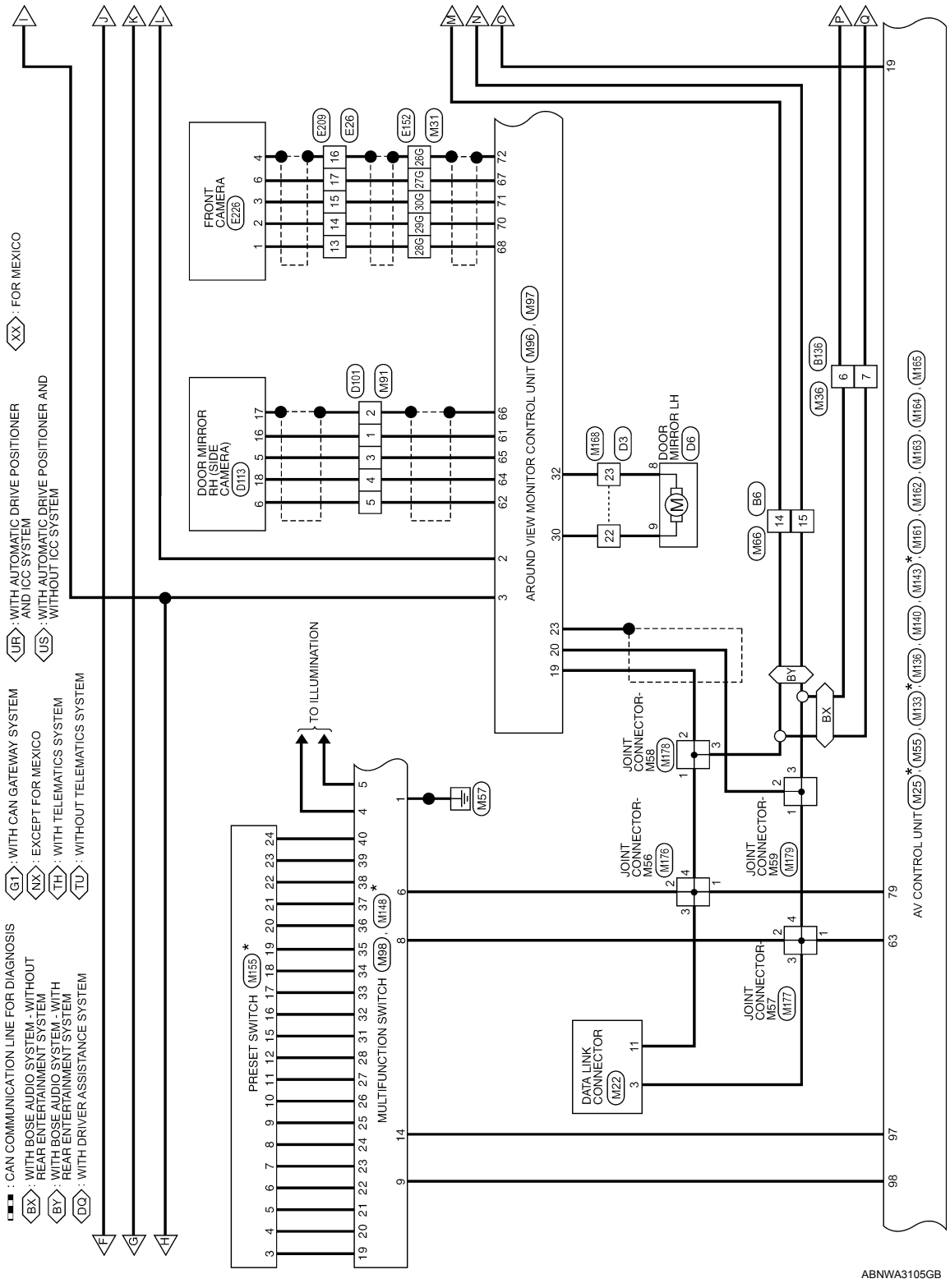
Wiring Diagram

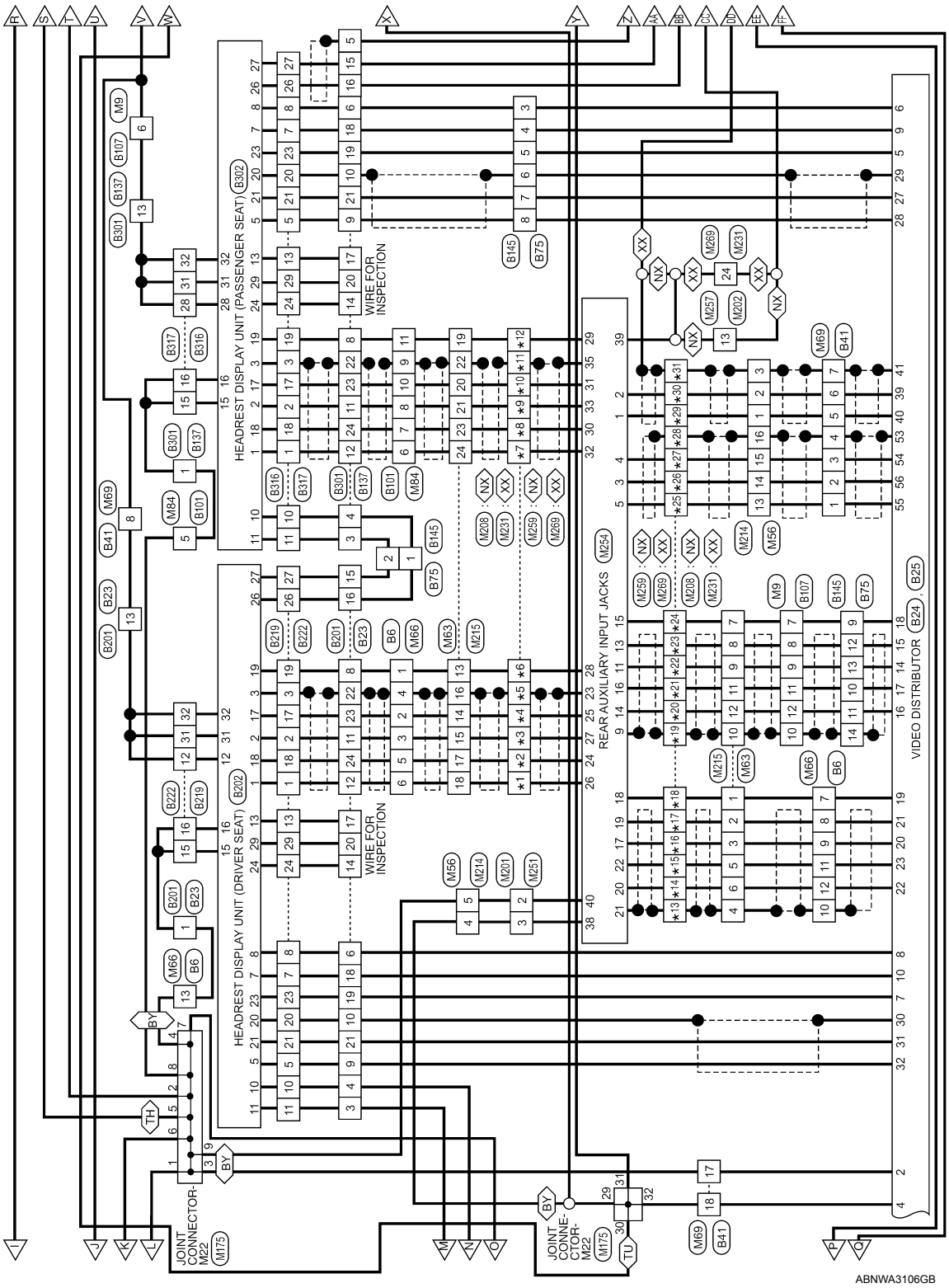
INFOID:0000000012849825

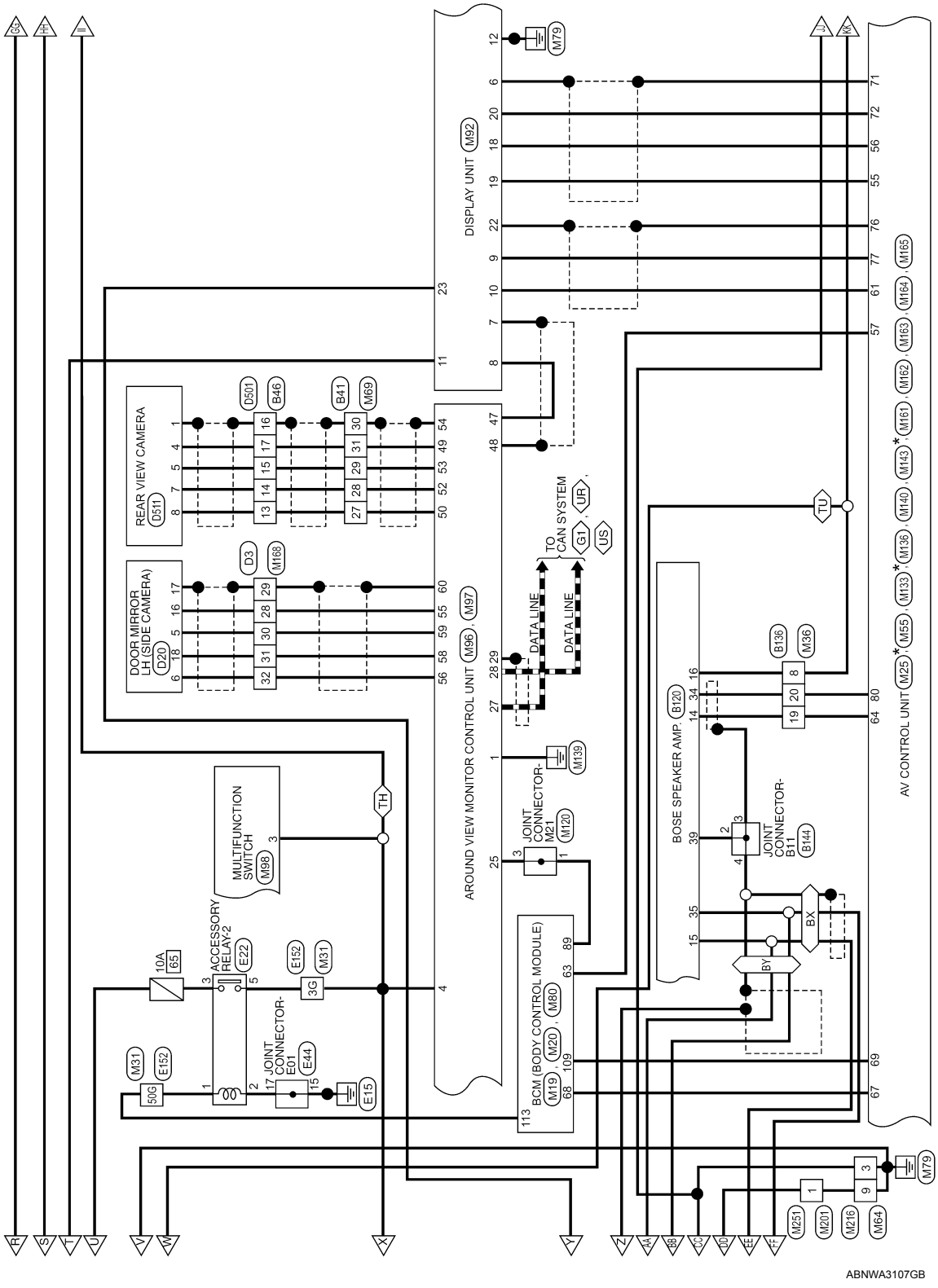


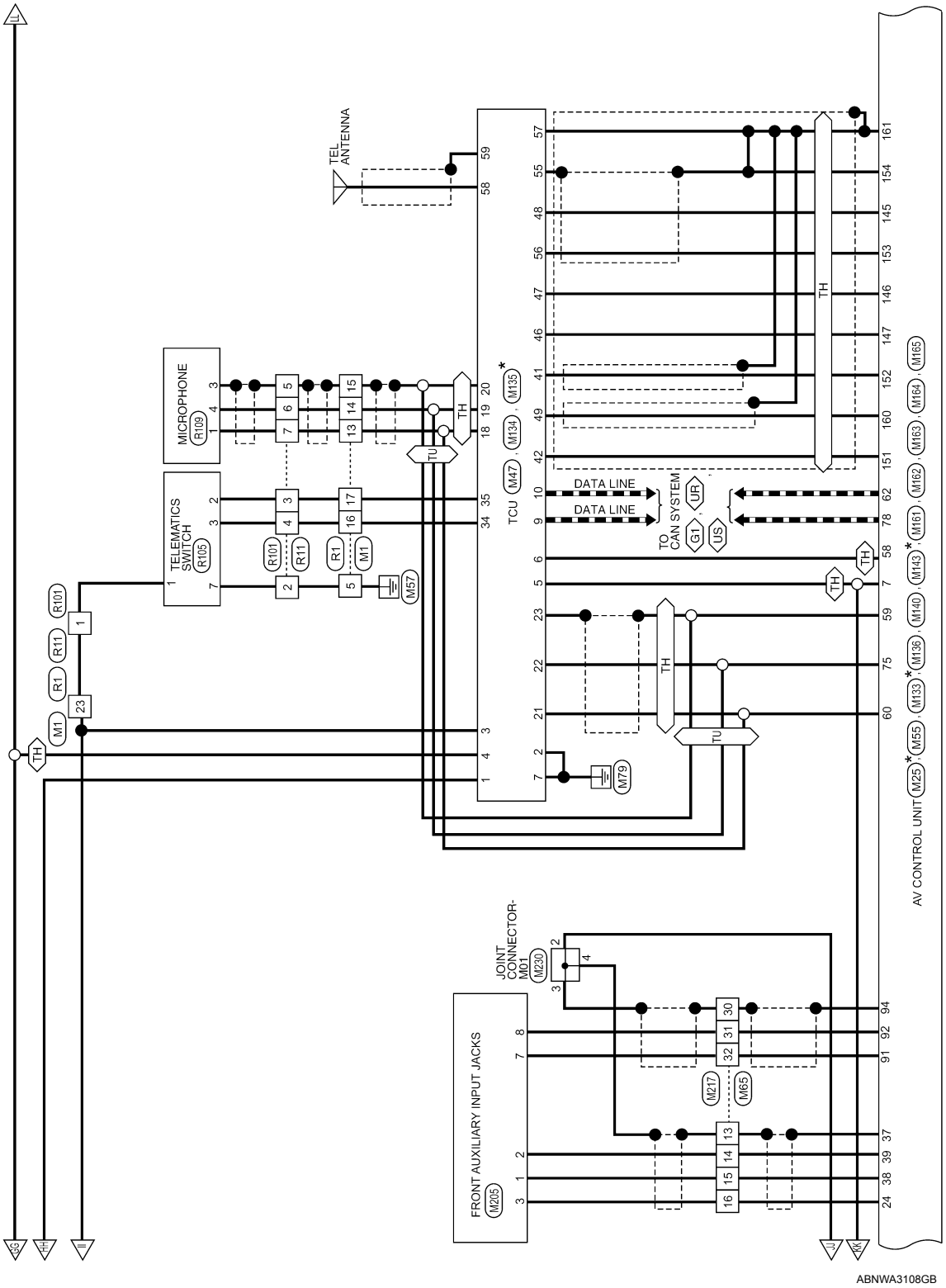
ABNWA3103GB


REAR SIDE SPEAKER LH B1
REAR DOOR TWEETER LH D252
REAR DOOR SPEAKER LH D207
REAR DOOR TWEETER RH D352
REAR DOOR SPEAKER RH D307
FRONT TWEETER RH M111
FRONT DOOR SPEAKER RH D112
FRONT TWEETER LH M109
FRONT DOOR SPEAKER LH D12
CENTER SPEAKER M110
INSTRUMENT PANEL TWEETER LH M62
INSTRUMENT PANEL TWEETER RH M73
JOINT CONNEC-TOR-M14 M151
JOINT CONNEC-TOR-M16 M153
JOINT CONNEC-TOR-M20 M154
JOINT CONNEC-TOR-M19 M152
BOSE SPEAKER AMP. B120, B121, B122
ABNWA3104GB


: CAN COMMUNICATION LINE FOR DIAGNOSIS
BX : WITH BOSE AUDIO SYSTEM - WITHOUT REAR ENTERTAINMENT SYSTEM
BY : WITH BOSE AUDIO SYSTEM - WITH REAR ENTERTAINMENT SYSTEM
DQ : WITH DRIVER ASSISTANCE SYSTEM
G1 : WITH CAN GATEWAY SYSTEM
NX : EXCEPT FOR MEXICO
TH : WITH TELEMATICS SYSTEM
TU : WITHOUT TELEMATICS SYSTEM
UR : WITH AUTOMATIC DRIVE POSITIONER AND ICC SYSTEM
US : WITH AUTOMATIC DRIVE POSITIONER AND WITHOUT ICC SYSTEM
XX : FOR MEXICO
FRONT CAMERA E226
DOOR MIRROR RH (SIDE CAMERA) D113
AROUND VIEW MONITOR CONTROL UNIT M96, M97
DOOR MIRROR LH D6
PRESET SWITCH M155 *
MULTIFUNCTION SWITCH M98, M148 *
TO ILLUMINATION
M57
JOINT CONNECTOR-M58 M178
JOINT CONNECTOR-M56 M176
JOINT CONNECTOR-M59 M179
JOINT CONNECTOR-M57 M177
DATA LINK CONNECTOR M22
AV CONTROL UNIT M25 *, M55 *, M133 *, M136 *, M140, M143 *, M161 *, M162, M163, M164, M165
M36 B136
M66 B6
BX
BY
ABNWA3105GB


HEADREST DISPLAY UNIT (PASSENGER SEAT)
HEADREST DISPLAY UNIT (DRIVER SEAT)
REAR AUXILIARY INPUT JACKS
VIDEO DISTRIBUTOR
JOINT CONNECTOR-M22
WIRE FOR INSPECTION
ABNWA3106GB


DISPLAY UNIT M92
AROUND VIEW MONITOR CONTROL UNIT M96, M97
AV CONTROL UNIT M25*, M55, M133*, M136, M140, M143*, M161, M162, M163, M164, M165
REAR VIEW CAMERA D511
DOOR MIRROR LH (SIDE CAMERA) D20
MULTIFUNCTION SWITCH M98
ACCESSORY RELAY-2 E22
10A 65
50G M31 E152
JOINT CONNECTOR-E01 E44
3G E152 M31
JOINT CONNECTOR-M21 M120
JOINT CONNECTOR-B11 B144
BOSE SPEAKER AMP. B120
BCM (BODY CONTROL MODULE) M19, M20, M80
DATA LINE
TO CAN SYSTEM G1, UR, US
TH
TU
BX
BY
M79
M251
M201
M216
M64
ABNWA3107GB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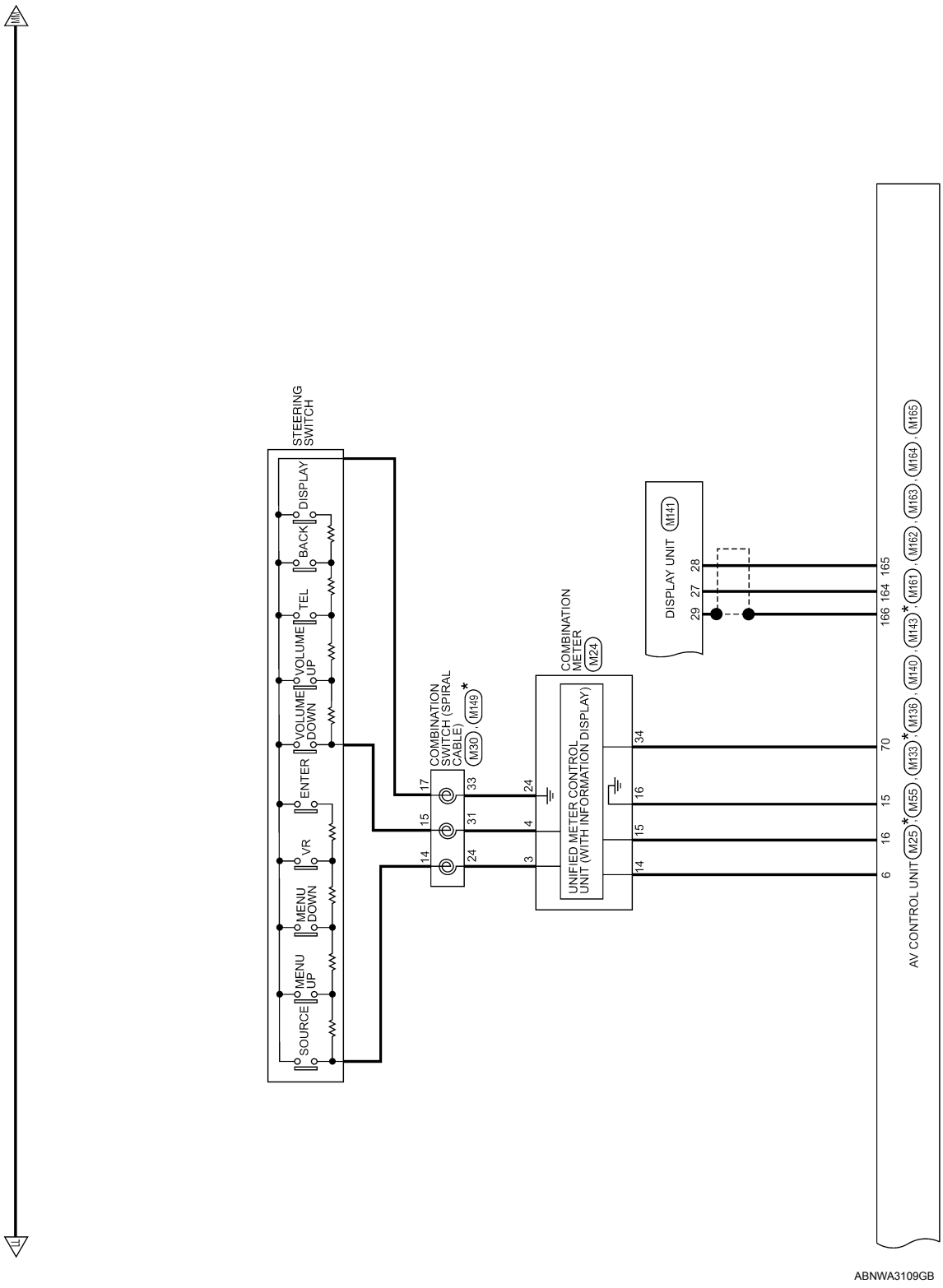
MICROPHONE R109
TELEMATICS SWITCH R105
TCU M47, M134, M135*
DATA LINE
DATA LINE
TO CAN SYSTEM UR, G1, US
AV CONTROL UNIT M25*, M55*, M133*, M136, M140, M143*, M161, M162, M163, M164, M165
JOINT CONNECTOR-M01 M230
FRONT AUXILIARY INPUT JACKS M205
M217
M65
M79
M57
TH
TU
ABNWA3108GB


STEERING SWITCH
DISPLAY
BACK
TEL
VOLUME UP
VOLUME DOWN
ENTER
VR
MENU DOWN
MENU UP
SOURCE
COMBINATION SWITCH (SPIRAL CABLE) M30, M149*
17
15
14
33
31
24
24
4
3
COMBINATION METER M24
UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY)
34
16
15
14
DISPLAY UNIT M141
29
27
28
166
164
165
AV CONTROL UNIT M25*, M55, M133*, M136, M140, M143*, M161, M162, M163, M164, M165
6
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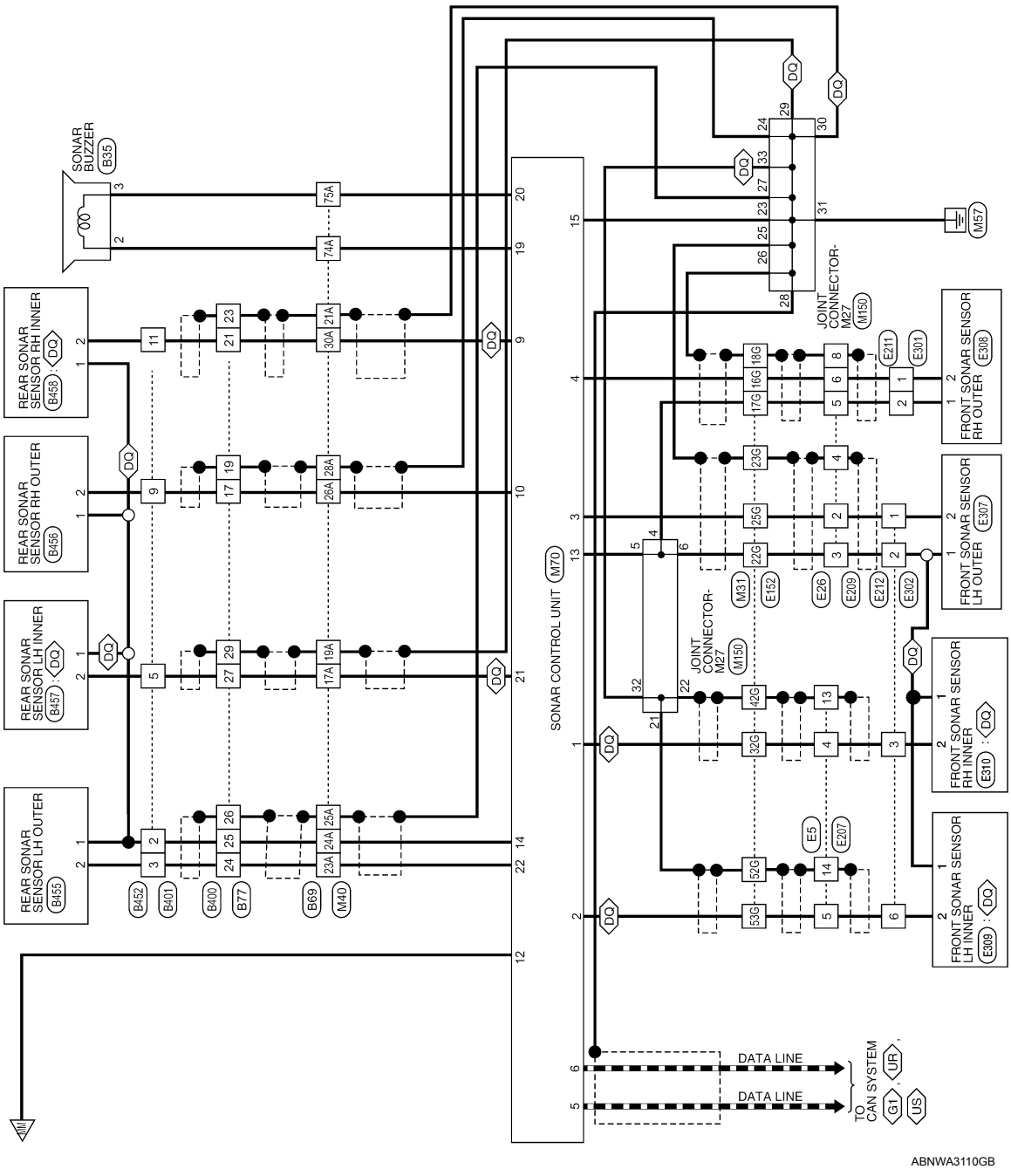
70
ABNWA3109GB


SONAR BUZZER B35
REAR SONAR SENSOR RH INNER B458
REAR SONAR SENSOR RH OUTER B456
REAR SONAR SENSOR LH INNER B457
REAR SONAR SENSOR LH OUTER B455
SONAR CONTROL UNIT M70
JOINT CONNECTOR-M27 M150
FRONT SONAR SENSOR RH OUTER E308
FRONT SONAR SENSOR RH INNER E310
FRONT SONAR SENSOR LH OUTER E307
FRONT SONAR SENSOR LH INNER E309
M57
DQ
DATA LINE
DATA LINE
TO CAN SYSTEM
ABNWA3110GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B1
Connector Name	REAR SIDE SPEAKER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	RR SUR SP LH+
2	G	RR SUR SP RH-

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	Y	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
3	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
4	R	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
4	SHIELD	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
5	P	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	W	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	V	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	V	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	W	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	G	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
9	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
10	SHIELD	TO MAIN HARNESS
11	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
11	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
12	W	TO MAIN HARNESS
13	SB	TO MAIN HARNESS
14	SB	TO MAIN HARNESS
15	LG	TO MAIN HARNESS
16	LG	TO MAIN HARNESS
17	SB	TO MAIN HARNESS
18	P	TO MAIN HARNESS
19	BG	TO MAIN HARNESS
20	W	TO MAIN HARNESS
21	R	TO MAIN HARNESS
22	B	TO MAIN HARNESS
23	SHIELD	TO MAIN HARNESS
24	–	TO MAIN HARNESS

Connector No.	B23
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	TO FRONT SEAT LH HARNESS
2	–	TO FRONT SEAT LH HARNESS
3	SB	TO FRONT SEAT LH HARNESS
4	LG	TO FRONT SEAT LH HARNESS
5	–	TO FRONT SEAT LH HARNESS
6	BR	TO FRONT SEAT LH HARNESS
7	–	TO FRONT SEAT LH HARNESS
8	P	TO FRONT SEAT LH HARNESS
9	L	TO FRONT SEAT LH HARNESS
10	SHIELD	TO FRONT SEAT LH HARNESS
11	R	TO FRONT SEAT LH HARNESS
12	B	TO FRONT SEAT LH HARNESS
13	B	TO FRONT SEAT LH HARNESS
14	–	TO FRONT SEAT LH HARNESS
15	SB	TO FRONT SEAT LH HARNESS
16	LG	TO FRONT SEAT LH HARNESS
17	–	TO FRONT SEAT LH HARNESS
18	L	TO FRONT SEAT LH HARNESS
19	SB	TO FRONT SEAT LH HARNESS
20	–	TO FRONT SEAT LH HARNESS
21	P	TO FRONT SEAT LH HARNESS
22	SHIELD	TO FRONT SEAT LH HARNESS
23	G	TO FRONT SEAT LH HARNESS
24	W	TO FRONT SEAT LH HARNESS

Connector No.	B24
Connector Name	VIDEO DISTRIBUTOR
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	V	BAT
3	B	GND
4	BG	ACC
5	BR	CONT. GND1
6	Y	ACC DET. OUT1
7	SB	CONT. GND
8	BR	ACC DET. OUT2
9	SB	AUX RQ. IN1
10	L	AUX REQ. IN2
11	–	–
12	–	–
13	–	–
14	R	RR1 HP RH+ OUT
15	G	RR1 HP RH- OUT
16	B	RR1 HP LH+ OUT
17	W	RR1 HP LH- OUT
18	V	AV GND 1(A GND)
19	V	AV GND 2(A GND)
20	B	REAR2 HP RH+
21	G	REAR2 HP RH-
22	W	REAR2 HP LH+
23	R	REAR2 HP LH-
24	–	–
25	–	–
26	–	–
27	W	RR1 COMP- OUT
28	B	RR1 COMP+ OUT
29	SHIELD	RR1 COMP SHIELD
30	SHIELD	REAR2 COMP SHIELD
31	P	REAR2 COMP-
32	L	REAR2 COMP+

Connector No.	B25
Connector Name	VIDEO DISTRIBUTOR
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
33	W	IT M COMP- IN
34	B	IT M COMP+ IN
35	SHIELD	COMP SHIELD
36	–	–
37	–	–
38	–	–
39	W	AUX VIDEO-IN
40	B	AUX VIDEO+IN
41	SHIELD	AUX SHIELD
42	–	–
43	–	–
44	–	–
45	W	AUDIO LH+ IN
46	R	AUDIO LH- IN
47	B	AUDIO RH+ IN
48	G	AUDIO RH- IN
49	SHIELD	AUDIO SHIELD
50	–	–
51	–	–
52	–	–
53	SHIELD	AUDIO SHIELD
54	B	AUDIO LH+ IN
55	R	AUDIO RH+ IN
56	W	AUDIO LH/RH- IN

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B35
Connector Name	SONAR BUZZER
Connector Type	TH04FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	P	SOUNDER+
3	V	SOUNDER-
4	–	–

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS - (WITHOUT NAVI)
1	R	TO MAIN HARNESS - (WITH NAVI)
2	R	TO MAIN HARNESS - (WITHOUT NAVI)
2	W	TO MAIN HARNESS - (WITH NAVI)
3	B	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	R	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	BG	TO MAIN HARNESS - (WITHOUT NAVI)
17	V	TO MAIN HARNESS - (WITH NAVI)
18	SB	TO MAIN HARNESS - (WITHOUT NAVI)
18	W	TO MAIN HARNESS - (WITH NAVI)
19	W	TO MAIN HARNESS - (WITHOUT NAVI)
19	B	TO MAIN HARNESS - (WITH NAVI)
20	B	TO MAIN HARNESS - (WITHOUT NAVI)
20	W	TO MAIN HARNESS - (WITH NAVI)
21	R	TO MAIN HARNESS - (WITHOUT NAVI)
21	SHIELD	TO MAIN HARNESS - (WITH NAVI)
22	G	TO MAIN HARNESS - (WITHOUT NAVI)
22	W	TO MAIN HARNESS - (WITH NAVI)
23	SHIELD	TO MAIN HARNESS - (WITHOUT NAVI)
23	R	TO MAIN HARNESS - (WITH NAVI)
24	SHIELD	TO MAIN HARNESS
25	B	TO MAIN HARNESS
26	G	TO MAIN HARNESS
27	W	TO MAIN HARNESS - (WITH NAVI)
27	R	TO MAIN HARNESS - (WITHOUT NAVI)
28	R	TO MAIN HARNESS - (WITH NAVI)
28	B	TO MAIN HARNESS - (WITHOUT NAVI)
29	G	TO MAIN HARNESS - (WITH NAVI)
29	W	TO MAIN HARNESS - (WITHOUT NAVI)
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	TO BACK DOOR LH HARNESS
2	Y	TO BACK DOOR LH HARNESS
3	BR	TO BACK DOOR LH HARNESS
4	SB	TO BACK DOOR LH HARNESS
5	LG	TO BACK DOOR LH HARNESS
6	L	TO BACK DOOR LH HARNESS
7	LG	TO BACK DOOR LH HARNESS
8	BR	TO BACK DOOR LH HARNESS
9	W	TO BACK DOOR LH HARNESS
10	R	TO BACK DOOR LH HARNESS
11	G	TO BACK DOOR LH HARNESS
12	B	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
12	W	TO BACK DOOR LH HARNESS - (WITH NAVI)
13	R	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
13	W	TO BACK DOOR LH HARNESS - (WITH NAVI)
14	R	TO BACK DOOR LH HARNESS - (WITH NAVI)
14	B	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
15	G	TO BACK DOOR LH HARNESS - (WITH NAVI)
15	W	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
16	SHIELD	TO BACK DOOR LH HARNESS
17	B	TO BACK DOOR LH HARNESS
18	–	TO BACK DOOR LH HARNESS
19	W	TO BACK DOOR LH HARNESS
20	W	TO BACK DOOR LH HARNESS
21	G	TO BACK DOOR LH HARNESS
22	BR	TO BACK DOOR LH HARNESS
23	GR	TO BACK DOOR LH HARNESS
24	G	TO BACK DOOR LH HARNESS

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	L	TO BODY HARNESS RH
6	BR	TO BODY HARNESS RH
7	Y	TO BODY HARNESS RH
8	–	TO BODY HARNESS RH
9	G	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	P	TO BODY HARNESS RH
12	R	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	R	TO BODY HARNESS RH
15	B	TO BODY HARNESS RH
16	W	TO BODY HARNESS RH

Connector No.	B51
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	TO REAR DOOR LH HARNESS
2	BR	TO REAR DOOR LH HARNESS
3	B	TO REAR DOOR LH HARNESS
4	R	TO REAR DOOR LH HARNESS
5	–	TO REAR DOOR LH HARNESS
6	–	TO REAR DOOR LH HARNESS
7	–	TO REAR DOOR LH HARNESS
8	Y	TO REAR DOOR LH HARNESS
9	–	TO REAR DOOR LH HARNESS
10	–	TO REAR DOOR LH HARNESS
11	R	TO REAR DOOR LH HARNESS
12	P	TO REAR DOOR LH HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	–	TO MAIN HARNESS
2A	Y	TO MAIN HARNESS
3A	Y	TO MAIN HARNESS
4A	G	TO MAIN HARNESS
5A	–	TO MAIN HARNESS
6A	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	R	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	BR	TO MAIN HARNESS
8A	G	TO MAIN HARNESS
9A	P	TO MAIN HARNESS
10A	–	TO MAIN HARNESS
11A	W	TO MAIN HARNESS
12A	G	TO MAIN HARNESS
13A	–	TO MAIN HARNESS
14A	R	TO MAIN HARNESS
15A	G	TO MAIN HARNESS
16A	W	TO MAIN HARNESS
17A	B	TO MAIN HARNESS
18A	B	TO MAIN HARNESS
19A	SHIELD	TO MAIN HARNESS
20A	W	TO MAIN HARNESS
21A	SHIELD	TO MAIN HARNESS
22A	–	TO MAIN HARNESS
23A	W	TO MAIN HARNESS
24A	B	TO MAIN HARNESS

25A	SHIELD	TO MAIN HARNESS
26A	B	TO MAIN HARNESS
27A	B	TO MAIN HARNESS
28A	SHIELD	TO MAIN HARNESS
29A	R	TO MAIN HARNESS
30A	B	TO MAIN HARNESS
31A	BR	TO MAIN HARNESS
32A	–	TO MAIN HARNESS
33A	W	TO MAIN HARNESS
34A	B	TO MAIN HARNESS
35A	SHIELD	TO MAIN HARNESS
36A	–	TO MAIN HARNESS
37A	LG	TO MAIN HARNESS
38A	V	TO MAIN HARNESS
39A	SB	TO MAIN HARNESS
40A	BR	TO MAIN HARNESS
41A	Y	TO MAIN HARNESS
42A	–	TO MAIN HARNESS
43A	–	TO MAIN HARNESS
44A	V	TO MAIN HARNESS
45A	G	TO MAIN HARNESS
46A	V	TO MAIN HARNESS
47A	L	TO MAIN HARNESS
48A	SB	TO MAIN HARNESS
49A	G	TO MAIN HARNESS
50A	W	TO MAIN HARNESS
51A	–	TO MAIN HARNESS
52A	–	TO MAIN HARNESS
53A	R	TO MAIN HARNESS
54A	SB	TO MAIN HARNESS
55A	LG	TO MAIN HARNESS
56A	Y	TO MAIN HARNESS
57A	SB	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
57A	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
58A	BR	TO MAIN HARNESS
59A	BR	TO MAIN HARNESS
60A	L	TO MAIN HARNESS
61A	Y	TO MAIN HARNESS
62A	–	TO MAIN HARNESS
63A	P	TO MAIN HARNESS
64A	R	TO MAIN HARNESS
65A	SB	TO MAIN HARNESS
66A	L	TO MAIN HARNESS
67A	LG	TO MAIN HARNESS
68A	P	TO MAIN HARNESS
69A	W	TO MAIN HARNESS
70A	G	TO MAIN HARNESS
71A	BR	TO MAIN HARNESS
72A	–	TO MAIN HARNESS
73A	Y	TO MAIN HARNESS
74A	P	TO MAIN HARNESS
75A	V	TO MAIN HARNESS

76A	R	TO MAIN HARNESS
77A	Y	TO MAIN HARNESS
78A	LG	TO MAIN HARNESS
79A	BR	TO MAIN HARNESS
80A	Y	TO MAIN HARNESS
81A	L	TO MAIN HARNESS
82A	BG	TO MAIN HARNESS
83A	Y	TO MAIN HARNESS
84A	LG	TO MAIN HARNESS
85A	SHIELD	TO MAIN HARNESS
86A	LG	TO MAIN HARNESS
87A	SB	TO MAIN HARNESS
88A	BG	TO MAIN HARNESS
89A	L	TO MAIN HARNESS
90A	P	TO MAIN HARNESS
91A	L	TO MAIN HARNESS
92A	LG	TO MAIN HARNESS
93A	B	TO MAIN HARNESS
94A	–	TO MAIN HARNESS
95A	–	TO MAIN HARNESS
96A	–	TO MAIN HARNESS
97A	BR	TO MAIN HARNESS
98A	L	TO MAIN HARNESS
99A	–	TO MAIN HARNESS
100A	–	TO MAIN HARNESS

Connector No.	B73
Connector Name	SUBWOOFER
Connector Type	RS04FGY-PR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	BASS BOX2+
2	W	BASS BOX1+
3	G	BASS BOX2-
4	R	BASS BOX1-

Connector No.	B75
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	TO BODY HARNESS RH
2	SB	TO BODY HARNESS RH
3	L	TO BODY HARNESS RH
4	SB	TO BODY HARNESS RH
5	BR	TO BODY HARNESS RH
6	SHIELD	TO BODY HARNESS RH
7	W	TO BODY HARNESS RH
8	B	TO BODY HARNESS RH
9	V	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	B	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	R	TO BODY HARNESS RH
14	SHIELD	TO BODY HARNESS RH
15	–	TO BODY HARNESS RH
16	–	TO BODY HARNESS RH

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 HARNESS
2	–	TO BODY NO. 3 HARNESS
3	–	TO BODY NO. 3 HARNESS
4	G	TO BODY NO. 3 HARNESS
5	W	TO BODY NO. 3 HARNESS
6	R	TO BODY NO. 3 HARNESS
7	W	TO BODY NO. 3 HARNESS
8	B	TO BODY NO. 3 HARNESS
9	W	TO BODY NO. 3 HARNESS
10	G	TO BODY NO. 3 HARNESS
11	–	TO BODY NO. 3 HARNESS
12	L	TO BODY NO. 3 HARNESS
13	Y	TO BODY NO. 3 HARNESS
14	–	TO BODY NO. 3 HARNESS
15	G	TO BODY NO. 3 HARNESS
16	–	TO BODY NO. 3 HARNESS
17	B	TO BODY NO. 3 HARNESS
18	B	TO BODY NO. 3 HARNESS
19	SHIELD	TO BODY NO. 3 HARNESS
20	R	TO BODY NO. 3 HARNESS
21	B	TO BODY NO. 3 HARNESS
22	W	TO BODY NO. 3 HARNESS
23	SHIELD	TO BODY NO. 3 HARNESS
24	W	TO BODY NO. 3 HARNESS
25	B	TO BODY NO. 3 HARNESS
26	SHIELD	TO BODY NO. 3 HARNESS
27	B	TO BODY NO. 3 HARNESS
28	B	TO BODY NO. 3 HARNESS
29	SHIELD	TO BODY NO. 3 HARNESS
30	LG	TO BODY NO. 3 HARNESS
31	W	TO BODY NO. 3 HARNESS
32	–	TO BODY NO. 3 HARNESS

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	W	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	R	TO MAIN HARNESS
5	V	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO MAIN HARNESS
10	G	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	P	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	L	TO MAIN HARNESS
18	P	TO MAIN HARNESS
19	LG	TO MAIN HARNESS
20	BR	TO MAIN HARNESS
21	LG	TO MAIN HARNESS
22	LG	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	V	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
24	BR	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
25	SB	TO MAIN HARNESS
26	LG	TO MAIN HARNESS
27	Y	TO MAIN HARNESS
28	Y	TO MAIN HARNESS
29	SB	TO MAIN HARNESS
30	LG	TO MAIN HARNESS
31	G	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B107
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	–	TO MAIN HARNESS
2	–	TO MAIN HARNESS
3	–	TO MAIN HARNESS
4	–	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	V	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	R	TO MAIN HARNESS
10	SHIELD	TO MAIN HARNESS
11	B	TO MAIN HARNESS
12	W	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	–	TO MAIN HARNESS
18	–	TO MAIN HARNESS
19	V	TO MAIN HARNESS
20	Y	TO MAIN HARNESS
21	SHIELD	TO MAIN HARNESS
22	B	TO MAIN HARNESS
23	R	TO MAIN HARNESS
24	W	TO MAIN HARNESS

Connector No.	B111
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	LG	TO MAIN HARNESS
5	Y	TO MAIN HARNESS
6	P	TO MAIN HARNESS
7	R	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	W	TO MAIN HARNESS
10	G	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	W	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
13	G	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
14	P	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
14	W	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
15	G	TO MAIN HARNESS
16	R	TO MAIN HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B120
Connector Name	BOSE SPEAKER AMP. (WITH SURROUND SOUND SYSTEM)
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	W	GUIDE IN-
5	W	STEREO LH -IN
6	W	STEREO RH -IN
7	W	RR SP LCH-
8	W	RR SP RCH-
9	W	CEN SP-
10	W	LFE IN-
11	–	–
12	–	–
13	–	–
14	B	M-CAN1 L
15	B	M-CAN2 L (WITHOUT REAR ENTERTAINMENT SYSTEM)
15	LG	M-CAN2 L (WITH REAR ENTERTAINMENT SYSTEM)
16	W	ACC
17	–	–
18	–	–
19	–	–
20	–	–
21	–	–
22	–	–
23	–	–
24	B	GUIDE IN+
25	B	STEREO LH +IN
26	B	STEREO RH +IN
27	B	RR SP LCH+
28	B	RR SP RCH+
29	B	CEN SP+
30	B	LFE IN+
31	–	–
32	–	–
33	–	–
34	W	M-CAN1 H
35	W	M-CAN2 H (WITHOUT REAR ENTERTAINMENT SYSTEM)
35	B/Y	M-CAN2 H (WITH REAR ENTERTAINMENT SYSTEM)
36	–	–
37	–	–
38	–	–
39	B	SHIELD
40	–	–

Connector No.	B121
Connector Name	BOSE SPEAKER AMP. (WITH SURROUND SOUND SYSTEM)
Connector Type	SGA12FBR-SJA2
Connector Color	BROWN

H.S.

54	53	52		51	50
49	48	47	46	45	44	43	42	41

Terminal No.	Color of Wire	Signal Name
41	G	FR DR SP RH+
42	W	FR DR SP RH-
43	R	BASS BOX2+
44	G	BASS BOX2-
45	G	FR DR SP LH+
46	R	FR DR SP LH-
47	B	GND
48	B	BASS BOX1-
49	W	FR INST TWDR RH-
50	LG	+B
51	Y	+B
52	B	GND
53	W	BASS BOX1+
54	B	FR INST TWDR RH+

Connector No.	B122
Connector Name	BOSE SPEAKER AMP. (WITH SURROUND SOUND SYSTEM)
Connector Type	SCA19FBR-SGA4
Connector Color	BROWN

H.S.

77	76	75	74	73		72	71	70	69	68
67	66	65	64	63	62	61	60	59	58	57	56	55

Terminal No.	Color of Wire	Signal Name
55	–	–
56	P	RR DR SP LH+
57	P	FRONT CENTER SP+
58	R	FRONT CENTER SP-
59	–	–
60	–	–
61	–	–
62	W	RR SUR SP LH+
63	W	RR SUR SP RH+
64	G	RR DR SP RH+
65	–	–
66	–	–
67	–	–
68	–	–
69	R	RR DR SP LH-
70	G	FR INST TWDR LH-
71	R	FR INST TWDR LH+
72	–	–
73	G	RR SUR SP LH-
74	G	RR SUR SP RH-
75	W	RR DR SP RH-
76	–	–
77	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B136
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	W	TO MAIN HARNESS
3	BR	TO MAIN HARNESS
4	G	TO MAIN HARNESS
5	BG	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	W	TO MAIN HARNESS
8	W	TO MAIN HARNESS
9	B	TO MAIN HARNESS
10	W	TO MAIN HARNESS
11	SHIELD	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	SHIELD	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	W	TO MAIN HARNESS
17	SHIELD	TO MAIN HARNESS
18	W	TO MAIN HARNESS
19	LG	TO MAIN HARNESS - (WITHOUT SURROUND SOUND SYSTEM)
19	B	TO MAIN HARNESS - (WITH SURROUND SOUND SYSTEM)
20	SB	TO MAIN HARNESS - (WITHOUT SURROUND SOUND SYSTEM)
20	W	TO MAIN HARNESS - (WITH SURROUND SOUND SYSTEM)
21	B	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	SHIELD	TO MAIN HARNESS
24	B	TO MAIN HARNESS
25	W	TO MAIN HARNESS
26	SHIELD	TO MAIN HARNESS
27	B	TO MAIN HARNESS
28	W	TO MAIN HARNESS
29	SHIELD	TO MAIN HARNESS
30	B	TO MAIN HARNESS
31	W	TO MAIN HARNESS
32	L	TO MAIN HARNESS
33	Y	TO MAIN HARNESS
34	–	TO MAIN HARNESS
35	–	TO MAIN HARNESS
36	–	TO MAIN HARNESS
37	BR	TO MAIN HARNESS
38	–	TO MAIN HARNESS
39	–	TO MAIN HARNESS
40	–	TO MAIN HARNESS

Connector No.	B137
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO FRONT SEAT RH HARNESS
2	–	TO FRONT SEAT RH HARNESS
3	SB	TO FRONT SEAT RH HARNESS
4	LG	TO FRONT SEAT RH HARNESS
5	SHIELD	TO FRONT SEAT RH HARNESS
6	SB	TO FRONT SEAT RH HARNESS
7	–	TO FRONT SEAT RH HARNESS
8	SB	TO FRONT SEAT RH HARNESS
9	O	TO FRONT SEAT RH HARNESS
10	SHIELD	TO FRONT SEAT RH HARNESS
11	R	TO FRONT SEAT RH HARNESS
12	B	TO FRONT SEAT RH HARNESS
13	B	TO FRONT SEAT RH HARNESS
14	–	TO FRONT SEAT RH HARNESS
15	B/Y	TO FRONT SEAT RH HARNESS - (WITH SURROUND SOUND SYSTEM)
15	SB	TO FRONT SEAT RH HARNESS - (WITHOUT SURROUND SOUND SYSTEM)
16	L/G	TO FRONT SEAT RH HARNESS
17	–	TO FRONT SEAT RH HARNESS
18	L	TO FRONT SEAT RH HARNESS
19	BR	TO FRONT SEAT RH HARNESS
20	–	TO FRONT SEAT RH HARNESS
21	Y	TO FRONT SEAT RH HARNESS
22	SHIELD	TO FRONT SEAT RH HARNESS
23	G	TO FRONT SEAT RH HARNESS
24	W	TO FRONT SEAT RH HARNESS

Connector No.	B139
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR RH HARNESS
2	–	TO REAR DOOR RH HARNESS
3	B	TO REAR DOOR RH HARNESS
4	G	TO REAR DOOR RH HARNESS
5	–	TO REAR DOOR RH HARNESS
6	BR	TO REAR DOOR RH HARNESS
7	Y	TO REAR DOOR RH HARNESS
8	Y	TO REAR DOOR RH HARNESS
9	–	TO REAR DOOR RH HARNESS
10	–	TO REAR DOOR RH HARNESS
11	SB	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
11	W	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
12	LG	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
12	G	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO BODY HARNESS
2	W	TO BODY HARNESS
3	B	TO BODY HARNESS
4	L	TO BODY HARNESS
5	BR	TO BODY HARNESS
6	Y	TO BODY HARNESS
7	LG	TO BODY HARNESS
8	–	TO BODY HARNESS
9	G	TO BODY HARNESS
10	W	TO BODY HARNESS
11	P	TO BODY HARNESS
12	R	TO BODY HARNESS
13	G	TO BODY HARNESS
14	R	TO BODY HARNESS
15	B	TO BODY HARNESS
16	W	TO BODY HARNESS

Connector No.	B144
Connector Name	JOINT CONNECTOR-B11
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	B	SHIELD
3	SHIELD	SHIELD
4	SHIELD	SHIELD

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B145
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	TO BODY HARNESS
2	SB	TO BODY HARNESS
3	SB	TO BODY HARNESS
4	L	TO BODY HARNESS
5	BR	TO BODY HARNESS
6	SHIELD	TO BODY HARNESS
7	Y	TO BODY HARNESS
8	O	TO BODY HARNESS
9	V	TO BODY HARNESS
10	B	TO BODY HARNESS
11	W	TO BODY HARNESS
12	G	TO BODY HARNESS
13	R	TO BODY HARNESS
14	SHIELD	TO BODY HARNESS
15	–	TO BODY HARNESS
16	–	TO BODY HARNESS

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	W	TO BODY HARNESS
2	–	TO BODY HARNESS
3	P	TO BODY HARNESS
4	LG	TO BODY HARNESS
5	–	TO BODY HARNESS
6	G	TO BODY HARNESS
7	–	TO BODY HARNESS
8	V	TO BODY HARNESS
9	Y	TO BODY HARNESS
10	P	TO BODY HARNESS
11	G	TO BODY HARNESS
12	W	TO BODY HARNESS
13	G	TO BODY HARNESS
14	SB	TO BODY HARNESS
15	LG	TO BODY HARNESS
16	R	TO BODY HARNESS
17	BG	TO BODY HARNESS
18	W	TO BODY HARNESS
19	Y	TO BODY HARNESS
20	GR	TO BODY HARNESS
21	G	TO BODY HARNESS
22	LG	TO BODY HARNESS
23	B	TO BODY HARNESS
24	R	TO BODY HARNESS

Connector No.	B153
Connector Name	REAR SIDE SPEAKER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	W	RR SUR SP RH+
2	G	RR SUR SP RH-

Connector No.	B202
Connector Name	HEADREST DISPLAY UNIT (DRIVER SEAT)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	REAR1 HP LH-
2	G	REAR1 HP RH-
3	LG	REAR1 HP SHIELD
4	–	–
5	Y	REAR1 COMP+
6	–	–
7	W	AUX REQ OUT
8	G	ACC DET IN
9	–	–
10	LG	M-CAN 1L
11	P	M-CAN 1H
12	G	LOCATION DET LH (LH ONLY)
13	BR	ILL
14	–	–
15	W	BAT
16	W	BAT
17	B	REAR1 HP LH-
18	R	REAR1 HP RH-
19	V	AV GND
20	P	REAR1 COMP SHIELD
21	G	REAR1 COMP-
22	–	–
23	Y	CONT GND
24	SB	CON CK B
25	–	–
26	R	M-CAN 2L
27	LG	M-CAN 2H
28	–	–
29	GR	CON CK A
30	–	–
31	G	GND
32	G	GND

Connector No.	B219
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT LH HARNESS
2	G	TO FRONT SEAT LH HARNESS
3	LG	TO FRONT SEAT LH HARNESS
4	–	TO FRONT SEAT LH HARNESS
5	Y	TO FRONT SEAT LH HARNESS
6	–	TO FRONT SEAT LH HARNESS
7	W	TO FRONT SEAT LH HARNESS
8	G	TO FRONT SEAT LH HARNESS
9	–	TO FRONT SEAT LH HARNESS
10	LG	TO FRONT SEAT LH HARNESS
11	P	TO FRONT SEAT LH HARNESS
12	G	TO FRONT SEAT LH HARNESS
13	BR	TO FRONT SEAT LH HARNESS
14	–	TO FRONT SEAT LH HARNESS
15	W	TO FRONT SEAT LH HARNESS
16	W	TO FRONT SEAT LH HARNESS
17	B	TO FRONT SEAT LH HARNESS
18	R	TO FRONT SEAT LH HARNESS
19	V	TO FRONT SEAT LH HARNESS
20	P	TO FRONT SEAT LH HARNESS
21	G	TO FRONT SEAT LH HARNESS
22	–	TO FRONT SEAT LH HARNESS
23	Y	TO FRONT SEAT LH HARNESS
24	SB	TO FRONT SEAT LH HARNESS
25	–	TO FRONT SEAT LH HARNESS
26	R	TO FRONT SEAT LH HARNESS
27	LG	TO FRONT SEAT LH HARNESS
28	–	TO FRONT SEAT LH HARNESS
29	GR	TO FRONT SEAT LH HARNESS
30	–	TO FRONT SEAT LH HARNESS
31	G	TO FRONT SEAT LH HARNESS
32	G	TO FRONT SEAT LH HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B222
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT LH HARNESS
2	G	TO FRONT SEAT LH HARNESS
3	LG	TO FRONT SEAT LH HARNESS
4	–	TO FRONT SEAT LH HARNESS
5	Y	TO FRONT SEAT LH HARNESS
6	–	TO FRONT SEAT LH HARNESS
7	W	TO FRONT SEAT LH HARNESS
8	G	TO FRONT SEAT LH HARNESS
9	–	TO FRONT SEAT LH HARNESS
10	LG	TO FRONT SEAT LH HARNESS
11	P	TO FRONT SEAT LH HARNESS
12	G	TO FRONT SEAT LH HARNESS
13	BR	TO FRONT SEAT LH HARNESS
14	–	TO FRONT SEAT LH HARNESS
15	W	TO FRONT SEAT LH HARNESS
16	W	TO FRONT SEAT LH HARNESS
17	B	TO FRONT SEAT LH HARNESS
18	R	TO FRONT SEAT LH HARNESS
19	V	TO FRONT SEAT LH HARNESS
20	P	TO FRONT SEAT LH HARNESS
21	G	TO FRONT SEAT LH HARNESS
22	–	TO FRONT SEAT LH HARNESS
23	Y	TO FRONT SEAT LH HARNESS
24	SB	TO FRONT SEAT LH HARNESS
25	–	TO FRONT SEAT LH HARNESS
26	R	TO FRONT SEAT LH HARNESS
27	LG	TO FRONT SEAT LH HARNESS
28	–	TO FRONT SEAT LH HARNESS
29	GR	TO FRONT SEAT LH HARNESS
30	–	TO FRONT SEAT LH HARNESS
31	G	TO FRONT SEAT LH HARNESS
32	G	TO FRONT SEAT LH HARNESS

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	W	TO FRONT SEAT RH HARNESS
2	–	TO FRONT SEAT RH HARNESS
3	P	TO FRONT SEAT RH HARNESS
4	LG	TO FRONT SEAT RH HARNESS
5	SHIELD	TO FRONT SEAT RH HARNESS
6	G	TO FRONT SEAT RH HARNESS
7	–	TO FRONT SEAT RH HARNESS
8	V	TO FRONT SEAT RH HARNESS
9	Y	TO FRONT SEAT RH HARNESS
10	P	TO FRONT SEAT RH HARNESS
11	G	TO FRONT SEAT RH HARNESS
12	W	TO FRONT SEAT RH HARNESS
13	G	TO FRONT SEAT RH HARNESS
14	SB	TO FRONT SEAT RH HARNESS
15	LG	TO FRONT SEAT RH HARNESS
16	R	TO FRONT SEAT RH HARNESS
17	BR	TO FRONT SEAT RH HARNESS
18	W	TO FRONT SEAT RH HARNESS
19	Y	TO FRONT SEAT RH HARNESS
20	GR	TO FRONT SEAT RH HARNESS
21	G	TO FRONT SEAT RH HARNESS
22	LG	TO FRONT SEAT RH HARNESS
23	B	TO FRONT SEAT RH HARNESS
24	R	TO FRONT SEAT RH HARNESS

Connector No.	B302
Connector Name	HEADREST DISPLAY UNIT (PASSENGER SEAT)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	REAR1 HP LH+
2	G	REAR1 HP RH+
3	LG	REAR1 HP SHIELD
4	–	–
5	Y	REAR1 COMP+
6	–	–
7	W	AUX REQ OUT
8	G	ACC DET IN
9	–	–
10	LG	M-CAN 1L
11	P	M-CAN 1H
12	–	–
13	BR	ILL
14	–	–
15	W	BAT
16	W	BAT
17	B	REAR1 HP LH-
18	R	REAR1 HP RH-
19	V	AV GND
20	P	REAR1 COMP SHIELD
21	G	REAR1 COMP-
22	–	–
23	Y	CONT GND
24	SB	CON CK B
25	–	–
26	R	M-CAN 2L
27	LG	M-CAN 2H
28	G	LOCATION DET RH (RH ONLY)
29	GR	CON CK A
30	–	–
31	G	GND
32	G	GND

Connector No.	B316
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT RH HARNESS
2	G	TO FRONT SEAT RH HARNESS
3	LG	TO FRONT SEAT RH HARNESS
4	–	TO FRONT SEAT RH HARNESS
5	Y	TO FRONT SEAT RH HARNESS
6	–	TO FRONT SEAT RH HARNESS
7	W	TO FRONT SEAT RH HARNESS
8	G	TO FRONT SEAT RH HARNESS
9	–	TO FRONT SEAT RH HARNESS
10	LG	TO FRONT SEAT RH HARNESS
11	P	TO FRONT SEAT RH HARNESS
12	–	TO FRONT SEAT RH HARNESS
13	BR	TO FRONT SEAT RH HARNESS
14	–	TO FRONT SEAT RH HARNESS
15	W	TO FRONT SEAT RH HARNESS
16	W	TO FRONT SEAT RH HARNESS
17	B	TO FRONT SEAT RH HARNESS
18	R	TO FRONT SEAT RH HARNESS
19	V	TO FRONT SEAT RH HARNESS
20	P	TO FRONT SEAT RH HARNESS
21	G	TO FRONT SEAT RH HARNESS
22	–	TO FRONT SEAT RH HARNESS
23	Y	TO FRONT SEAT RH HARNESS
24	SB	TO FRONT SEAT RH HARNESS
25	–	TO FRONT SEAT RH HARNESS
26	R	TO FRONT SEAT RH HARNESS
27	LG	TO FRONT SEAT RH HARNESS
28	G	TO FRONT SEAT RH HARNESS
29	GR	TO FRONT SEAT RH HARNESS
30	–	TO FRONT SEAT RH HARNESS
31	G	TO FRONT SEAT RH HARNESS
32	G	TO FRONT SEAT RH HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B317
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT RH HARNESS
2	G	TO FRONT SEAT RH HARNESS
3	LG	TO FRONT SEAT RH HARNESS
4	–	TO FRONT SEAT RH HARNESS
5	Y	TO FRONT SEAT RH HARNESS
6	–	TO FRONT SEAT RH HARNESS
7	W	TO FRONT SEAT RH HARNESS
8	G	TO FRONT SEAT RH HARNESS
9	–	TO FRONT SEAT RH HARNESS
10	LG	TO FRONT SEAT RH HARNESS
11	P	TO FRONT SEAT RH HARNESS
12	–	TO FRONT SEAT RH HARNESS
13	BR	TO FRONT SEAT RH HARNESS
14	–	TO FRONT SEAT RH HARNESS
15	W	TO FRONT SEAT RH HARNESS
16	W	TO FRONT SEAT RH HARNESS
17	B	TO FRONT SEAT RH HARNESS
18	R	TO FRONT SEAT RH HARNESS
19	V	TO FRONT SEAT RH HARNESS
20	P	TO FRONT SEAT RH HARNESS
21	G	TO FRONT SEAT RH HARNESS
22	–	TO FRONT SEAT RH HARNESS
23	Y	TO FRONT SEAT RH HARNESS
24	SB	TO FRONT SEAT RH HARNESS
25	–	TO FRONT SEAT RH HARNESS
26	R	TO FRONT SEAT RH HARNESS
27	LG	TO FRONT SEAT RH HARNESS
28	G	TO FRONT SEAT RH HARNESS
29	GR	TO FRONT SEAT RH HARNESS
30	–	TO FRONT SEAT RH HARNESS
31	G	TO FRONT SEAT RH HARNESS
32	G	TO FRONT SEAT RH HARNESS

Connector No.	B400
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS
2	–	TO BODY HARNESS
3	–	TO BODY HARNESS
4	G	TO BODY HARNESS
5	W	TO BODY HARNESS
6	R	TO BODY HARNESS
7	W	TO BODY HARNESS
8	B	TO BODY HARNESS
9	W	TO BODY HARNESS
10	G	TO BODY HARNESS
11	–	TO BODY HARNESS
12	L	TO BODY HARNESS
13	Y	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	B	TO BODY HARNESS
17	B	TO BODY HARNESS
18	B	TO BODY HARNESS
19	SHIELD	TO BODY HARNESS
20	R	TO BODY HARNESS
21	B	TO BODY HARNESS
22	W	TO BODY HARNESS
23	SHIELD	TO BODY HARNESS
24	W	TO BODY HARNESS
25	B	TO BODY HARNESS
26	SHIELD	TO BODY HARNESS
27	B	TO BODY HARNESS
28	B	TO BODY HARNESS
29	SHIELD	TO BODY HARNESS
30	LG	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	RH12MB
Connector Color	BLACK

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 SUB HARNESS
2	B	TO BODY NO. 3 SUB HARNESS
3	W	TO BODY NO. 3 SUB HARNESS
4	B	TO BODY NO. 3 SUB HARNESS
5	B	TO BODY NO. 3 SUB HARNESS
6	–	TO BODY NO. 3 SUB HARNESS
7	–	TO BODY NO. 3 SUB HARNESS
8	B	TO BODY NO. 3 SUB HARNESS
9	B	TO BODY NO. 3 SUB HARNESS
10	W	TO BODY NO. 3 SUB HARNESS
11	B	TO BODY NO. 3 SUB HARNESS
12	R	TO BODY NO. 3 SUB HARNESS

Connector No.	B452
Connector Name	WIRE TO WIRE
Connector Type	RH12FB
Connector Color	BLACK

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 HARNESS
2	P	TO BODY NO. 3 HARNESS
3	G	TO BODY NO. 3 HARNESS
4	L	TO BODY NO. 3 HARNESS
5	Y	TO BODY NO. 3 HARNESS
6	–	TO BODY NO. 3 HARNESS
7	–	TO BODY NO. 3 HARNESS
8	L	TO BODY NO. 3 HARNESS
9	W	TO BODY NO. 3 HARNESS
10	P	TO BODY NO. 3 HARNESS
11	G	TO BODY NO. 3 HARNESS

12	R	TO BODY NO. 3 HARNESS

Connector No.	B455
Connector Name	REAR SONAR SENSOR LH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

3	2	1

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	G	ROL SENSOR SIGNAL
3	–	–

Connector No.	B456
Connector Name	REAR SONAR SENSOR RH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

3	2	1

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	W	ROR SENSOR SIGNAL
3	–	–

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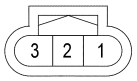
Connector No.	B457
Connector Name	REAR SONAR SENSOR LH INNER
Connector Type	RH03FB
Connector Color	BLACK

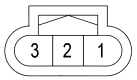
H.S.



Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	Y	RIL SENSOR SIGNAL
3	–	–

Connector No.	B458
Connector Name	REAR SONAR SENSOR RH INNER
Connector Type	RH03FB
Connector Color	BLACK

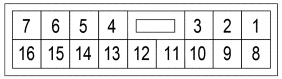
H.S.



Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	G	RIR SENSOR SIGNAL
3	–	–

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

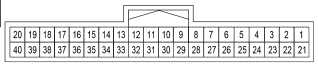
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	Y	TO MAIN HARNESS
3	G/B	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	Y	TO MAIN HARNESS
8	W	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	V	TO MAIN HARNESS
11	BR	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	L	TO MAIN HARNESS
14	SHIELD	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	W	TO MAIN HARNESS

Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

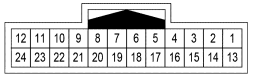
H.S.



Terminal No.	Color of Wire	Signal Name
1	Y	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	G/B	TO MAIN HARNESS
4	SB	TO MAIN HARNESS
5	LG	TO MAIN HARNESS
6	L	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
9	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
10	BR	TO MAIN HARNESS
11	Y	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	Y	TO MAIN HARNESS
14	LG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
14	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	BR	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
15	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	LG	TO MAIN HARNESS
17	L	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	BG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	BR	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	L	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	Y	TO MAIN HARNESS
20	LG	TO MAIN HARNESS
21	LG	TO MAIN HARNESS
22	Y	TO MAIN HARNESS
23	LG	TO MAIN HARNESS
24	SB	TO MAIN HARNESS
25	BR	TO MAIN HARNESS
26	B	TO MAIN HARNESS
27	–	TO MAIN HARNESS
28	G	TO MAIN HARNESS
29	SHIELD	TO MAIN HARNESS
30	R	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	W	TO MAIN HARNESS
33	V	TO MAIN HARNESS
34	Y	TO MAIN HARNESS
35	BG	TO MAIN HARNESS
36	SB	TO MAIN HARNESS
37	V	TO MAIN HARNESS
38	LG	TO MAIN HARNESS
39	Y	TO MAIN HARNESS
40	BR	TO MAIN HARNESS

Connector No.	D6
Connector Name	DOOR MIRROR LH (WITH AROUND VIEW MONITOR)
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	Y	BATTERY
8	LG	CLOSE
9	Y	OPEN
10	BG	MIRROR MOTOR [LH COMMON (DOWN&RIGHT)]
11	L	MIRROR MOTOR [LH HORIZONTAL(LEFT)]
12	LG	MIRROR MOTOR [LH VERTICAL (UP)]
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	–	–
19	B	TURN -
20	SB	TURN +
21	BG	MIRROR SENSOR (LH VERTICAL)
22	V	MIRROR SENSOR (LH HORIZONTAL)
23	SB	POWER SUPPLY (SENSOR FOR 5V)
24	Y	GND (SENSOR GND)

Connector No.	D12
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS02FW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	FR DOOR LH+ OUT
2	W	FR DOOR LH- OUT

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	D20
Connector Name	DOOR MIRROR LH (SIDE CAMERA)
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	R	COMP OUT+
6	W	POWER
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	G	CAMERA CONTROL
17	SHIELD	COMP OUT-
18	B	GND
19	–	–
20	–	–
21	–	–
22	–	–
23	–	–
24	–	–

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	W	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	L	TO MAIN HARNESS
8	BR	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	BR	TO MAIN HARNESS
11	LG	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	W/B	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	LG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	L	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	BR	TO MAIN HARNESS
20	SB	TO MAIN HARNESS
21	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	G	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
22	Y	TO MAIN HARNESS
23	LG	TO MAIN HARNESS
24	BR	TO MAIN HARNESS
25	Y	TO MAIN HARNESS
26	LG	TO MAIN HARNESS
27	–	TO MAIN HARNESS
28	–	TO MAIN HARNESS
29	Y	TO MAIN HARNESS
30	LG	TO MAIN HARNESS
31	BR	TO MAIN HARNESS

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS
Connector Color	WHITE

H.S.

4	3		2	1
10	9	8	7	6	5

32	–	TO MAIN HARNESS

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	L	TO MAIN HARNESS
5	BR	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	LG	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	W	TO MAIN HARNESS

Connector No.	D112
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS02FW
Connector Color	WHITE

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR DOOR RH+ OUT
2	W	FR DOOR RH- OUT

Connector No.	D113
Connector Name	DOOR MIRROR RH (SIDE CAMERA)
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	R	COMP OUT+
6	W	POWER
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	G	CAMERA CONTROL
17	SHIELD	COMP OUT-
18	B	GND
19	–	–
20	–	–
21	–	–
22	–	–
23	–	–
24	–	–

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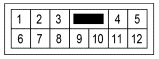
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

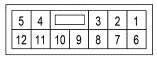
H.S.



Terminal No.	Color of Wire	Signal Name
1	BR	TO BODY HARNESS
2	L	TO BODY HARNESS
3	B	TO BODY HARNESS
4	SB	TO BODY HARNESS
5	–	TO BODY HARNESS
6	–	TO BODY HARNESS
7	–	TO BODY HARNESS
8	V	TO BODY HARNESS
9	R/W	TO BODY HARNESS
10	R/G	TO BODY HARNESS
11	Y	TO BODY HARNESS
12	LG	TO BODY HARNESS

Connector No.	D202
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	BG	TO REAR DOOR LH SUB HARNESS
2	B	TO REAR DOOR LH SUB HARNESS
3	–	TO REAR DOOR LH SUB HARNESS
4	V	TO REAR DOOR LH SUB HARNESS
5	P	TO REAR DOOR LH SUB HARNESS
6	W	TO REAR DOOR LH SUB HARNESS
7	SB	TO REAR DOOR LH SUB HARNESS
8	LG	TO REAR DOOR LH SUB HARNESS
9	Y	TO REAR DOOR LH SUB HARNESS
10	LG	TO REAR DOOR LH SUB HARNESS
11	Y	TO REAR DOOR LH SUB HARNESS
12	R	TO REAR DOOR LH SUB HARNESS

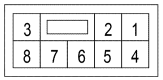
Connector No.	D207
Connector Name	REAR DOOR SPEAKER LH (WITH BOSE AUDIO SYSTEM)
Connector Type	NS02FBR-CS
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	RR DR SP LH+
2	Y	RR DR SP LH-

Connector No.	D208
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS
Connector Color	WHITE

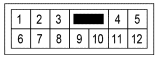
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR LH SUB HARNESS
2	–	TO REAR DOOR LH SUB HARNESS
3	–	TO REAR DOOR LH SUB HARNESS
4	–	TO REAR DOOR LH SUB HARNESS
5	–	TO REAR DOOR LH SUB HARNESS
6	–	TO REAR DOOR LH SUB HARNESS
7	LG	TO REAR DOOR LH SUB HARNESS
8	Y	TO REAR DOOR LH SUB HARNESS

Connector No.	D251
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	R	TO REAR DOOR LH HARNESS
2	B	TO REAR DOOR LH HARNESS
3	–	TO REAR DOOR LH HARNESS
4	Y	TO REAR DOOR LH HARNESS
5	O	TO REAR DOOR LH HARNESS
6	LG	TO REAR DOOR LH HARNESS
7	W	TO REAR DOOR LH HARNESS
8	L	TO REAR DOOR LH HARNESS
9	BR	TO REAR DOOR LH HARNESS
10	LG	TO REAR DOOR LH HARNESS
11	BR	TO REAR DOOR LH HARNESS
12	V	TO REAR DOOR LH HARNESS

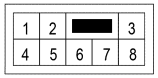
Connector No.	D252
Connector Name	REAR DOOR TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	RR DR SP LH+
2	BR	RR DR SP LH-

Connector No.	D257
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS
Connector Color	WHITE

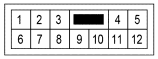
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR LH HARNESS
2	–	TO REAR DOOR LH HARNESS
3	–	TO REAR DOOR LH HARNESS
4	–	TO REAR DOOR LH HARNESS
5	–	TO REAR DOOR LH HARNESS
6	–	TO REAR DOOR LH HARNESS
7	LG	TO REAR DOOR LH HARNESS
8	BR	TO REAR DOOR LH HARNESS

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W/V	TO BODY HARNESS RH
2	–	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	V	TO BODY HARNESS RH
5	–	TO BODY HARNESS RH
6	Y	TO BODY HARNESS RH
7	LG	TO BODY HARNESS RH
8	SB	TO BODY HARNESS RH
9	R/W	TO BODY HARNESS RH
10	R/G	TO BODY HARNESS RH
11	G	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	D302
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	BG	TO REAR DOOR RH SUB HARNESS
2	B	TO REAR DOOR RH SUB HARNESS
3	–	TO REAR DOOR RH SUB HARNESS
4	SB	TO REAR DOOR RH SUB HARNESS
5	P	TO REAR DOOR RH SUB HARNESS
6	W	TO REAR DOOR RH SUB HARNESS
7	V	TO REAR DOOR RH SUB HARNESS
8	L	TO REAR DOOR RH SUB HARNESS
9	BR	TO REAR DOOR RH SUB HARNESS
10	W	TO REAR DOOR RH SUB HARNESS
11	G	TO REAR DOOR RH SUB HARNESS
12	R	TO REAR DOOR RH SUB HARNESS

Connector No.	D307
Connector Name	REAR DOOR SPEAKER RH (WITH BOSE AUDIO SYSTEM)
Connector Type	NS02FBR-CS
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	W	RR DR SP RH+
2	G	RR DR SP RH-

Connector No.	D308
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

3		2	1
8	7	6	5	4

Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR RH SUB HARNESS
2	–	TO REAR DOOR RH SUB HARNESS
3	–	TO REAR DOOR RH SUB HARNESS
4	–	TO REAR DOOR RH SUB HARNESS
5	–	TO REAR DOOR RH SUB HARNESS
6	–	TO REAR DOOR RH SUB HARNESS
7	W	TO REAR DOOR RH SUB HARNESS
8	G	TO REAR DOOR RH SUB HARNESS

Connector No.	D351
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	BG	TO REAR DOOR RH HARNESS
2	B	TO REAR DOOR RH HARNESS
3	–	TO REAR DOOR RH HARNESS
4	Y	TO REAR DOOR RH HARNESS
5	O	TO REAR DOOR RH HARNESS
6	LG	TO REAR DOOR RH HARNESS
7	W	TO REAR DOOR RH HARNESS
8	L	TO REAR DOOR RH HARNESS

2	G	RR DR SP RH-

9	BR	TO REAR DOOR RH HARNESS
10	LG	TO REAR DOOR RH HARNESS
11	BR	TO REAR DOOR RH HARNESS
12	V	TO REAR DOOR RH HARNESS

Connector No.	D352
Connector Name	REAR DOOR TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	LG	RR DR SP RH+
2	BR	RR DR SP RH-

Connector No.	D357
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS
Connector Color	WHITE

H.S.

1	2		3
4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR RH HARNESS
2	–	TO REAR DOOR RH HARNESS
3	–	TO REAR DOOR RH HARNESS
4	–	TO REAR DOOR RH HARNESS
5	–	TO REAR DOOR RH HARNESS
6	–	TO REAR DOOR RH HARNESS
7	LG	TO REAR DOOR RH HARNESS
8	BR	TO REAR DOOR RH HARNESS

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	BR	TO BODY HARNESS
2	BG	TO BODY HARNESS
3	V	TO BODY HARNESS
4	LG	TO BODY HARNESS
5	G	TO BODY HARNESS
6	SB	TO BODY HARNESS
7	L	TO BODY HARNESS
8	R	TO BODY HARNESS
9	G	TO BODY HARNESS
10	W	TO BODY HARNESS
11	P	TO BODY HARNESS
12	Y	TO BODY HARNESS
13	W	TO BODY HARNESS
14	B	TO BODY HARNESS
15	R	TO BODY HARNESS
16	SHIELD	TO BODY HARNESS
17	G	TO BODY HARNESS
18	–	TO BODY HARNESS
19	W	TO BODY HARNESS
20	W	TO BODY HARNESS
21	W	TO BODY HARNESS
22	LG	TO BODY HARNESS
23	Y	TO BODY HARNESS
24	LG	TO BODY HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	D511
Connector Name	REAR VIEW CAMERA (WITH NAVI)
Connector Type	TH08MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	COMP-
2	–	–
3	–	–
4	G	CONT
5	R	COMP+
6	–	–
7	B	GND
8	W	ON

Connector No.	E5
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	TO FRONT END MODULE HARNESS
2	SB	TO FRONT END MODULE HARNESS
3	BR	TO FRONT END MODULE HARNESS
4	B	TO FRONT END MODULE HARNESS
5	B	TO FRONT END MODULE HARNESS
6	P	TO FRONT END MODULE HARNESS
7	W/G	TO FRONT END MODULE HARNESS
8	G	TO FRONT END MODULE HARNESS

9	L	TO FRONT END MODULE HARNESS
10	G	TO FRONT END MODULE HARNESS
11	R	TO FRONT END MODULE HARNESS
12	P	TO FRONT END MODULE HARNESS
13	SHIELD	TO FRONT END MODULE HARNESS
14	SHIELD	TO FRONT END MODULE HARNESS
15	P	TO FRONT END MODULE HARNESS
16	B	TO FRONT END MODULE HARNESS

Connector No.	E22
Connector Name	ACCESSORY RELAY-2
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	ACC RELAY OUT
2	B	GROUND
3	R	BATT
5	P	ACC

Connector No.	E26
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	R	TO FRONT END MODULE HARNESS
2	W	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS

4	SHIELD	TO FRONT END MODULE HARNESS
5	B	TO FRONT END MODULE HARNESS
6	R	TO FRONT END MODULE HARNESS
7	W	TO FRONT END MODULE HARNESS
8	SHIELD	TO FRONT END MODULE HARNESS
9	Y	TO FRONT END MODULE HARNESS
10	BG	TO FRONT END MODULE HARNESS
11	G	TO FRONT END MODULE HARNESS
12	W	TO FRONT END MODULE HARNESS
13	R	TO FRONT END MODULE HARNESS
14	B	TO FRONT END MODULE HARNESS
15	G	TO FRONT END MODULE HARNESS
16	SHIELD	TO FRONT END MODULE HARNESS
17	W	TO FRONT END MODULE HARNESS
18	P	TO FRONT END MODULE HARNESS
19	W	TO FRONT END MODULE HARNESS
20	R	TO FRONT END MODULE HARNESS
21	W	TO FRONT END MODULE HARNESS
22	BR	TO FRONT END MODULE HARNESS
23	V	TO FRONT END MODULE HARNESS
24	SB	TO FRONT END MODULE HARNESS

Connector No.	E44
Connector Name	JOINT CONNECTOR-E01
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	SENSOR POWER SUPPLY
2	W	SENSOR POWER SUPPLY
3	W	SENSOR POWER SUPPLY

4	R	BATTERY
5	R	BATTERY
6	R	BATTERY
7	–	–
8	LG	BATTERY
9	LG	BATTERY
10	LG	BATTERY
11	LG	BATTERY
12	P	BATTERY
13	P	BATTERY
14	P	BATTERY
15	GR	GND
16	B	GND
17	B	GND
18	–	–
19	Y	BATTERY
20	Y	BATTERY
21	Y	BATTERY
22	Y	BATTERY
23	BG	EVAP CONTROL SYSTEM PRESSURE SENSOR
24	O	EVAP CONTROL SYSTEM PRESSURE SENSOR
25	–	–
26	G	GND
27	G	GND
28	G	GND
29	–	–
30	V	BATTERY
31	LG	BATTERY
32	V	BATTERY
33	V	BATTERY

Connector No.	E52
Connector Name	PARKING BRAKE SWITCH
Connector Type	P01FB-A
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	PKB

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	W	TO MAIN HARNESS
3G	P	TO MAIN HARNESS
4G	R	TO MAIN HARNESS
5G	P	TO MAIN HARNESS
6G	W	TO MAIN HARNESS
7G	SHIELD	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	LG	TO MAIN HARNESS
10G	P	TO MAIN HARNESS
11G	G	TO MAIN HARNESS
12G	P	TO MAIN HARNESS
13G	W	TO MAIN HARNESS
14G	BG	TO MAIN HARNESS
15G	W	TO MAIN HARNESS
16G	R	TO MAIN HARNESS
17G	B	TO MAIN HARNESS
18G	SHIELD	TO MAIN HARNESS
19G	W	TO MAIN HARNESS
20G	G	TO MAIN HARNESS
21G	P	TO MAIN HARNESS
22G	B	TO MAIN HARNESS
23G	SHIELD	TO MAIN HARNESS
24G	R	TO MAIN HARNESS
25G	W	TO MAIN HARNESS
26G	SHIELD	TO MAIN HARNESS
27G	W	TO MAIN HARNESS
28G	R	TO MAIN HARNESS
29G	B	TO MAIN HARNESS
30G	G	TO MAIN HARNESS
31G	L	TO MAIN HARNESS
32G	LG	TO MAIN HARNESS
33G	LG	TO MAIN HARNESS
34G	W	TO MAIN HARNESS
35G	P	TO MAIN HARNESS
36G	L	TO MAIN HARNESS
37G	BG	TO MAIN HARNESS
38G	W	TO MAIN HARNESS
39G	W	TO MAIN HARNESS
40G	Y	TO MAIN HARNESS
41G	BG	TO MAIN HARNESS
42G	P	TO MAIN HARNESS
43G	R	TO MAIN HARNESS
44G	W	TO MAIN HARNESS
45G	Y	TO MAIN HARNESS
46G	SB	TO MAIN HARNESS
47G	V	TO MAIN HARNESS
48G	BR	TO MAIN HARNESS
49G	W	TO MAIN HARNESS
50G	G	TO MAIN HARNESS
51G	B/W	TO MAIN HARNESS
52G	BR	TO MAIN HARNESS
53G	L	TO MAIN HARNESS
54G	P	TO MAIN HARNESS
55G	BR	TO MAIN HARNESS
56G	R	TO MAIN HARNESS
57G	P	TO MAIN HARNESS
58G	BG	TO MAIN HARNESS
59G	W	TO MAIN HARNESS
60G	B	TO MAIN HARNESS
61G	SHIELD	TO MAIN HARNESS
62G	P	TO MAIN HARNESS
63G	L	TO MAIN HARNESS
64G	R	TO MAIN HARNESS
65G	G/R	TO MAIN HARNESS
66G	R	TO MAIN HARNESS
67G	BG	TO MAIN HARNESS
68G	LG/R	TO MAIN HARNESS
69G	W	TO MAIN HARNESS
70G	G	TO MAIN HARNESS
71G	GR	TO MAIN HARNESS
72G	-	TO MAIN HARNESS
73G	-	TO MAIN HARNESS
74G	-	TO MAIN HARNESS
75G	G	TO MAIN HARNESS
76G	Y	TO MAIN HARNESS
77G	BR	TO MAIN HARNESS
78G	-	TO MAIN HARNESS
79G	P	TO MAIN HARNESS
80G	G	TO MAIN HARNESS
81G	R	TO MAIN HARNESS
82G	-	TO MAIN HARNESS
83G	-	TO MAIN HARNESS
84G	-	TO MAIN HARNESS
86G	-	TO MAIN HARNESS
87G	-	TO MAIN HARNESS
88G	-	TO MAIN HARNESS
89G	R	TO MAIN HARNESS
90G	L	TO MAIN HARNESS
91G	L	TO MAIN HARNESS
92G	-	TO MAIN HARNESS
93G	-	TO MAIN HARNESS
94G	Y	TO MAIN HARNESS
95G	W	TO MAIN HARNESS
96G	-	TO MAIN HARNESS
97G	-	TO MAIN HARNESS
98G	-	TO MAIN HARNESS
99G	-	TO MAIN HARNESS
100G	SHIELD	TO MAIN HARNESS

Connector No.	E207
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	P	TO ENGINE ROOM HARNESS
2	P	TO ENGINE ROOM HARNESS
3	R	TO ENGINE ROOM HARNESS
4	B	TO ENGINE ROOM HARNESS
5	G	TO ENGINE ROOM HARNESS
6	-	TO ENGINE ROOM HARNESS
7	-	TO ENGINE ROOM HARNESS
8	G	TO ENGINE ROOM HARNESS
9	R	TO ENGINE ROOM HARNESS
10	G	TO ENGINE ROOM HARNESS
11	P	TO ENGINE ROOM HARNESS
12	R	TO ENGINE ROOM HARNESS
13	SHIELD	TO ENGINE ROOM HARNESS
14	SHIELD	TO ENGINE ROOM HARNESS
15	-	TO ENGINE ROOM HARNESS
16	-	TO ENGINE ROOM HARNESS

Connector No.	E209
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO ENGINE ROOM HARNESS
2	L	TO ENGINE ROOM HARNESS
3	B	TO ENGINE ROOM HARNESS
4	SHIELD	TO ENGINE ROOM HARNESS
5	B	TO ENGINE ROOM HARNESS
6	R	TO ENGINE ROOM HARNESS
7	W	TO ENGINE ROOM HARNESS
8	SHIELD	TO ENGINE ROOM HARNESS
9	Y	TO ENGINE ROOM HARNESS
10	L	TO ENGINE ROOM HARNESS
11	SB	TO ENGINE ROOM HARNESS
12	Y	TO ENGINE ROOM HARNESS
13	R	TO ENGINE ROOM HARNESS
14	B	TO ENGINE ROOM HARNESS
15	G	TO ENGINE ROOM HARNESS
16	SHIELD	TO ENGINE ROOM HARNESS
17	W	TO ENGINE ROOM HARNESS
18	L	TO ENGINE ROOM HARNESS
19	Y	TO ENGINE ROOM HARNESS
20	V	TO ENGINE ROOM HARNESS
21	G	TO ENGINE ROOM HARNESS
22	L	TO ENGINE ROOM HARNESS
23	G	TO ENGINE ROOM HARNESS
24	R	TO ENGINE ROOM HARNESS

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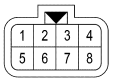
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	E211
Connector Name	WIRE TO WIRE
Connector Type	RS08MGY-PR
Connector Color	GRAY

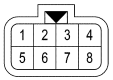
H.S.



Terminal No.	Color of Wire	Signal Name
1	R	TO FRONT FOG LAMP SUB HARNESS
2	B	TO FRONT FOG LAMP SUB HARNESS
3	R	TO FRONT FOG LAMP SUB HARNESS
4	W	TO FRONT FOG LAMP SUB HARNESS
5	W	TO FRONT FOG LAMP SUB HARNESS
6	–	TO FRONT FOG LAMP SUB HARNESS
7	B	TO FRONT FOG LAMP SUB HARNESS
8	B	TO FRONT FOG LAMP SUB HARNESS

Connector No.	E212
Connector Name	WIRE TO WIRE
Connector Type	RS08MGY-PR
Connector Color	GRAY

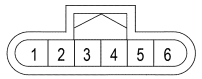
H.S.



Terminal No.	Color of Wire	Signal Name
1	L	TO FRONT FOG LAMP SUB HARNESS
2	B	TO FRONT FOG LAMP SUB HARNESS
3	B	TO FRONT FOG LAMP SUB HARNESS
4	L	TO FRONT FOG LAMP SUB HARNESS
5	Y	TO FRONT FOG LAMP SUB HARNESS
6	G	TO FRONT FOG LAMP SUB HARNESS
7	B	TO FRONT FOG LAMP SUB HARNESS
8	B	TO FRONT FOG LAMP SUB HARNESS

Connector No.	E226
Connector Name	FRONT CAMERA
Connector Type	RH06FB
Connector Color	BLACK

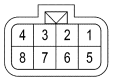
H.S.



Terminal No.	Color of Wire	Signal Name
1	R	ON
2	B	GND
3	G	COMP+
4	SHIELD	COMP-
5	–	–
6	W	CONT

Connector No.	E301
Connector Name	WIRE TO WIRE
Connector Type	RS08FGY-PR
Connector Color	GRAY

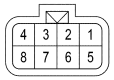
H.S.



Terminal No.	Color of Wire	Signal Name
1	G	TO FRONT END MODULE HARNESS
2	P	TO FRONT END MODULE HARNESS
3	LG	TO FRONT END MODULE HARNESS
4	W	TO FRONT END MODULE HARNESS
5	R	TO FRONT END MODULE HARNESS
6	R	TO FRONT END MODULE HARNESS
7	B	TO FRONT END MODULE HARNESS
8	B	TO FRONT END MODULE HARNESS

Connector No.	E302
Connector Name	WIRE TO WIRE
Connector Type	RS08FGY-PR
Connector Color	GRAY

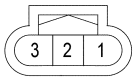
H.S.



Terminal No.	Color of Wire	Signal Name
1	G	TO FRONT END MODULE HARNESS
2	P	TO FRONT END MODULE HARNESS
3	W	TO FRONT END MODULE HARNESS
4	W	TO FRONT END MODULE HARNESS
5	R	TO FRONT END MODULE HARNESS
6	W	TO FRONT END MODULE HARNESS
7	B	TO FRONT END MODULE HARNESS
8	B	TO FRONT END MODULE HARNESS

Connector No.	E307
Connector Name	FRONT SONAR SENSOR LH OUTER
Connector Type	RH03FB
Connector Color	BLACK

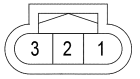
H.S.



Terminal No.	Color of Wire	Signal Name
1	P	FR SENSOR GND
2	G	FOL SENSOR SIGNAL
3	–	–

Connector No.	E308
Connector Name	FRONT SONAR SENSOR RH OUTER
Connector Type	RH03FB
Connector Color	BLACK

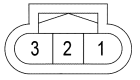
H.S.



Terminal No.	Color of Wire	Signal Name
1	P	–
2	G	FOR SENSOR SIGNAL
3	R	FR SENSOR GND

Connector No.	E309
Connector Name	FRONT SONAR SENSOR LH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
1	P	GROUND
2	W	SIGNAL
3	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	E310
Connector Name	FRONT SONAR SENSOR RH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	GROUND
2	W	SIGNAL
3	–	–

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	SB	TO ROOM LAMP HARNESS
2	LG	TO ROOM LAMP HARNESS
3	R	TO ROOM LAMP HARNESS
4	–	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	LG	TO ROOM LAMP HARNESS
7	L	TO ROOM LAMP HARNESS
8	Y	TO ROOM LAMP HARNESS
9	W	TO ROOM LAMP HARNESS
10	LG	TO ROOM LAMP HARNESS
11	BR	TO ROOM LAMP HARNESS
12	R/G	TO ROOM LAMP HARNESS
13	W	TO ROOM LAMP HARNESS
14	B	TO ROOM LAMP HARNESS
15	SHIELD	TO ROOM LAMP HARNESS
16	R	TO ROOM LAMP HARNESS
17	W	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	G	TO ROOM LAMP HARNESS
20	BR	TO ROOM LAMP HARNESS
21	LG	TO ROOM LAMP HARNESS
22	Y	TO ROOM LAMP HARNESS
23	P	TO ROOM LAMP HARNESS
24	B	TO ROOM LAMP HARNESS

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	LG	IGNITION
3P	G	IGN ELEC RELAY OUT 2
4P	–	–
5P	P	IGNITION
6P	BG	REAR DEFOGGER RELAY OUT
7P	LG	IGNITION
8P	BG	IGNITION
9P	L	BATTERY
10P	BR	IGNITION
11P	–	–
12P	–	–
13P	W	BATTERY
14P	Y	BATTERY
15P	L	BATT
16P	W	BLOWER FAN RELAY OUT

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS RH
2	–	TO BODY HARNESS RH
3	–	TO BODY HARNESS RH
4	–	TO BODY HARNESS RH
5	–	TO BODY HARNESS RH
6	GR	TO BODY HARNESS RH
7	V	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	R	TO BODY HARNESS RH
10	SHIELD	TO BODY HARNESS RH
11	W	TO BODY HARNESS RH
12	B	TO BODY HARNESS RH
13	–	TO BODY HARNESS RH
14	–	TO BODY HARNESS RH
15	–	TO BODY HARNESS RH
16	–	TO BODY HARNESS RH
17	–	TO BODY HARNESS RH
18	–	TO BODY HARNESS RH
19	P	TO BODY HARNESS RH
20	G	TO BODY HARNESS RH
21	SHIELD	TO BODY HARNESS RH
22	B	TO BODY HARNESS RH
23	R	TO BODY HARNESS RH
24	W	TO BODY HARNESS RH

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Type	NS16FBR
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	G	TO BODY HARNESS RH
4	L	TO BODY HARNESS RH
5	Y	TO BODY HARNESS RH
6	G	TO BODY HARNESS RH
7	W	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	W	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	R	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	W	TO BODY HARNESS RH

15	P	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
15	G	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
16	W	TO BODY HARNESS RH

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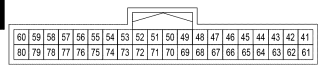
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH
Connector Color	BLACK

H.S.

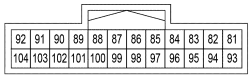


Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	–	–
47	–	–
48	R	HIGH SIDE START SW LED
49	–	–
50	–	–
51	–	–
52	W	AUDIO DONGLE
53	–	–
54	W	PW LIN/COM
55	BR	R SENSOR K-LINE
56	–	–
57	–	–
58	–	–
59	P	CAN-L
60	L	CAN-H
61	BG	REAR DEFOGGER RELAY OUT
62	W	STARTER RELAY OUT
63	BG	I-KEY LINK SIGNAL
64	P	BUZZER OUT
65	P	DOOR HANDLE LAMP
66	W	BLOWER FAN RELAY OUT
67	G	IGN ELEC RELAY OUT 2
68	P	MR OUTPUT
69	G	AT DEVICE OUT
70	P	IGN USM OUT 1
71	R	DR REQUEST SW
72	G	AS REQUEST SW
73	–	–
74	–	–
75	BG	COMBI SW OUT 5
76	P	COMBI SW OUT 4
77	P	COMBI SW OUT 3
78	W	COMBI SW OUT 2
79	W	COMBI SW OUT 1
80	R	BACK DOOR OPEN SW

ABNIA9065GB

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FGY-NH
Connector Color	GRAY

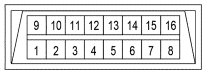
H.S.



Terminal No.	Color of Wire	Signal Name
81	L	BAT REAR WIPER FUSE
82	W	RL DOOR SW
83	BG	BACK DOOR REQUEST SW
84	BR	R WIPER AUTOSTOP SW
85	–	–
86	R	TRAILER FLASHER RL
87	P	TRAILER FLASHER RR
88	–	–
89	LG	REVERSE LAMP OUT
90	–	–
91	–	–
92	R	RR FLASHER
93	R	RR DOOR SW
94	G	AS DOOR SW
95	V	REAR WIPER OUT
96	BG	DR DOOR SW
97	W	BACK DOOR SW
98	–	–
99	P	ROOM ANT 3 B
100	W	ROOM ANT 3 A
101	R	REAR BUMPER ANT B
102	G	REAR BUMPER ANT A
103	BG	RL FLASHER
104	–	–

Connector No.	M22
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW
Connector Color	WHITE

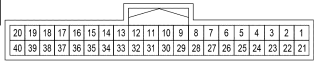
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	LG	M-CAN-L
4	B	GROUND
5	B	GROUND
6	L	CAN-H
7	R	KLINE
8	LG	IGN SW
9	–	–
10	–	–
11	SB	M-CAN-H
12	P	CAN-L
13	L	CAN-H
14	P	CAN-L
15	–	–
16	BG	POWER

Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH
Connector Color	WHITE

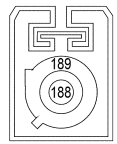
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	GND1
2	B	GND2
3	P	STRG SW INPUT 1
4	BG	STRG SW INPUT 2
5	P	ACC
6	V	SECURITY
7	R	AIR BAG
8	G	AS BELT
9	Y	DR BUCKLE SW
10	–	–
11	BG	ALTERNATOR (CHARGE)
12	G	PKB
13	–	–
14	G	STRG SW OUTPUT 1
15	W	STRG SW OUTPUT 2
16	B	STRG SW OUTPUT GND
17	–	–
18	–	–
19	–	–
20	–	–
21	BG	IGN
22	W	BAT
23	B	ILLUMI CONT OUT
24	R	STRG SW GND
25	G	BRAKE OIL SW
26	R	FUEL SENSOR GND
27	W	FUEL SENSOR
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	BR	SPEED 2 P/R
34	BG	SPEED 8 P/R
35	–	–
36	–	–
37	–	–
38	P	CAN-L
39	L	CAN-H
40	–	–

Connector No.	M25
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA CODING C
Connector Color	PINK

H.S.



Terminal No.	Color of Wire	Signal Name
188	B	GPS ANT
189	SHIELD	GPS SHIELD

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M30
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V
Connector Color	GRAY

H.S.

25 24 31 32 33

Terminal No.	Color of Wire	Signal Name
24	P	AUDIO STRG SW REMOTE A
25	W	ASCD
31	BG	AUDIO STRG SW REMOTE B
32	G	ASCDG
33	R	AUDIO STRG SW GND

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.

1G 2G 3G 4G 5G
6G 7G 8G 9G 10G

11G 12G 13G 14G 15G 16G 17G 18G 19G 20G 21G
22G 23G 24G 25G 26G 27G 28G 29G 30G

31G 32G 33G 34G 35G 36G 37G 38G 39G 40G 41G
42G 43G 44G 45G 46G 47G 48G 49G 50G

51G 52G 53G 54G 55G 56G 57G 58G 59G 60G 61G
62G 63G 64G 65G 66G 67G 68G 69G 70G 71G 72G
73G 74G 75G 76G 77G 78G 79G 80G 81G 82G 83G
84G 85G 86G 87G 88G 89G 90G 91G 92G 93G 94G
95G 96G 97G 98G 99G 100G

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Terminal No.	Color of Wire	Signal Name
1G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
1G	P	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)

2G	W	TO ENGINE ROOM HARNESS
3G	P	TO ENGINE ROOM HARNESS
4G	G	TO ENGINE ROOM HARNESS
5G	P	TO ENGINE ROOM HARNESS
6G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6G	R	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7G	SHIELD	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	BG	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R	TO ENGINE ROOM HARNESS
12G	G	TO ENGINE ROOM HARNESS
13G	G	TO ENGINE ROOM HARNESS
14G	V	TO ENGINE ROOM HARNESS
15G	W	TO ENGINE ROOM HARNESS
16G	R	TO ENGINE ROOM HARNESS
17G	B	TO ENGINE ROOM HARNESS
18G	SHIELD	TO ENGINE ROOM HARNESS
19G	SB	TO ENGINE ROOM HARNESS
20G	LG	TO ENGINE ROOM HARNESS
21G	R	TO ENGINE ROOM HARNESS
22G	B	TO ENGINE ROOM HARNESS
23G	SHIELD	TO ENGINE ROOM HARNESS
24G	W	TO ENGINE ROOM HARNESS
25G	R	TO ENGINE ROOM HARNESS
26G	SHIELD	TO ENGINE ROOM HARNESS
27G	B	TO ENGINE ROOM HARNESS
28G	W	TO ENGINE ROOM HARNESS
29G	G	TO ENGINE ROOM HARNESS
30G	R	TO ENGINE ROOM HARNESS
31G	L	TO ENGINE ROOM HARNESS
32G	G	TO ENGINE ROOM HARNESS
33G	G	TO ENGINE ROOM HARNESS
34G	G	TO ENGINE ROOM HARNESS
35G	P	TO ENGINE ROOM HARNESS
36G	L	TO ENGINE ROOM HARNESS
37G	L	TO ENGINE ROOM HARNESS
38G	W	TO ENGINE ROOM HARNESS
39G	R	TO ENGINE ROOM HARNESS
40G	Y	TO ENGINE ROOM HARNESS
41G	L	TO ENGINE ROOM HARNESS
42G	P	TO ENGINE ROOM HARNESS
43G	W	TO ENGINE ROOM HARNESS
44G	G	TO ENGINE ROOM HARNESS
45G	R	TO ENGINE ROOM HARNESS
46G	Y	TO ENGINE ROOM HARNESS
47G	Y	TO ENGINE ROOM HARNESS
48G	LG	TO ENGINE ROOM HARNESS
49G	P	TO ENGINE ROOM HARNESS
50G	L	TO ENGINE ROOM HARNESS

51G	B/W	TO ENGINE ROOM HARNESS
52G	BR	TO ENGINE ROOM HARNESS
53G	L	TO ENGINE ROOM HARNESS
54G	BG	TO ENGINE ROOM HARNESS
55G	G	TO ENGINE ROOM HARNESS
56G	P	TO ENGINE ROOM HARNESS
57G	P	TO ENGINE ROOM HARNESS
58G	L	TO ENGINE ROOM HARNESS
59G	B	TO ENGINE ROOM HARNESS
60G	W	TO ENGINE ROOM HARNESS
61G	SHIELD	TO ENGINE ROOM HARNESS
62G	G	TO ENGINE ROOM HARNESS
63G	P	TO ENGINE ROOM HARNESS
64G	W	TO ENGINE ROOM HARNESS
65G	G/R	TO ENGINE ROOM HARNESS
66G	R	TO ENGINE ROOM HARNESS
67G	W	TO ENGINE ROOM HARNESS
68G	LG/R	TO ENGINE ROOM HARNESS
69G	P	TO ENGINE ROOM HARNESS
70G	BG	TO ENGINE ROOM HARNESS
71G	GR	TO ENGINE ROOM HARNESS
72G	–	TO ENGINE ROOM HARNESS
73G	–	TO ENGINE ROOM HARNESS
74G	–	TO ENGINE ROOM HARNESS
75G	G	TO ENGINE ROOM HARNESS
76G	Y	TO ENGINE ROOM HARNESS
77G	BR	TO ENGINE ROOM HARNESS
78G	–	TO ENGINE ROOM HARNESS
79G	R	TO ENGINE ROOM HARNESS
80G	W	TO ENGINE ROOM HARNESS
81G	G	TO ENGINE ROOM HARNESS
82G	P	TO ENGINE ROOM HARNESS
83G	P	TO ENGINE ROOM HARNESS
84G	P	TO ENGINE ROOM HARNESS
85G	P	TO ENGINE ROOM HARNESS
86G	P	TO ENGINE ROOM HARNESS
87G	P	TO ENGINE ROOM HARNESS
88G	P	TO ENGINE ROOM HARNESS
89G	R	TO ENGINE ROOM HARNESS
90G	P	TO ENGINE ROOM HARNESS
91G	L	TO ENGINE ROOM HARNESS
92G	P	TO ENGINE ROOM HARNESS
93G	P	TO ENGINE ROOM HARNESS
94G	O	TO ENGINE ROOM HARNESS
95G	B	TO ENGINE ROOM HARNESS
96G	P	TO ENGINE ROOM HARNESS
97G	P	TO ENGINE ROOM HARNESS
98G	P	TO ENGINE ROOM HARNESS
99G	P	TO ENGINE ROOM HARNESS
100G	SHIELD	TO ENGINE ROOM HARNESS

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	V	TO BODY HARNESS RH
2	G	TO BODY HARNESS RH
3	Y	TO BODY HARNESS RH
4	R	TO BODY HARNESS RH
5	BG	TO BODY HARNESS RH
6	LG	TO BODY HARNESS RH
7	SB	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	B	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	SHIELD	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH
13	B	TO BODY HARNESS RH
14	SHIELD	TO BODY HARNESS RH
15	B	TO BODY HARNESS RH
16	W	TO BODY HARNESS RH
17	SHIELD	TO BODY HARNESS RH
18	SB	TO BODY HARNESS RH
19	LG	TO BODY HARNESS RH
20	SB	TO BODY HARNESS RH
21	B	TO BODY HARNESS RH
22	W	TO BODY HARNESS RH
23	SHIELD	TO BODY HARNESS RH
24	W	TO BODY HARNESS RH
25	B	TO BODY HARNESS RH
26	SHIELD	TO BODY HARNESS RH
27	B	TO BODY HARNESS RH
28	W	TO BODY HARNESS RH
29	SHIELD	TO BODY HARNESS RH
30	B	TO BODY HARNESS RH
31	W	TO BODY HARNESS RH
32	L	TO BODY HARNESS RH
33	Y	TO BODY HARNESS RH
34	–	TO BODY HARNESS RH
35	–	TO BODY HARNESS RH
36	–	TO BODY HARNESS RH
37	BR	TO BODY HARNESS RH
38	–	TO BODY HARNESS RH
39	–	TO BODY HARNESS RH
40	–	TO BODY HARNESS RH

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	GR	TO BODY HARNESS
2A	BR	TO BODY HARNESS
3A	Y	TO BODY HARNESS
4A	V	TO BODY HARNESS
5A	L/B	TO BODY HARNESS
6A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	G	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	Y	TO BODY HARNESS
8A	W	TO BODY HARNESS
9A	L	TO BODY HARNESS
10A	R	TO BODY HARNESS
11A	R	TO BODY HARNESS
12A	BG	TO BODY HARNESS
13A	O	TO BODY HARNESS
14A	LG	TO BODY HARNESS
15A	R	TO BODY HARNESS
16A	G	TO BODY HARNESS
17A	B	TO BODY HARNESS
18A	B	TO BODY HARNESS
19A	SHIELD	TO BODY HARNESS
20A	B	TO BODY HARNESS
21A	SHIELD	TO BODY HARNESS
22A	–	TO BODY HARNESS
23A	W	TO BODY HARNESS
24A	B	TO BODY HARNESS
25A	SHIELD	TO BODY HARNESS
26A	B	TO BODY HARNESS
27A	B	TO BODY HARNESS
28A	SHIELD	TO BODY HARNESS
29A	R	TO BODY HARNESS
30A	B	TO BODY HARNESS
31A	R	TO BODY HARNESS
32A	Y/R	TO BODY HARNESS
33A	W	TO BODY HARNESS
34A	B	TO BODY HARNESS
35A	SHIELD	TO BODY HARNESS
36A	L/Y	TO BODY HARNESS
37A	LG	TO BODY HARNESS
38A	V	TO BODY HARNESS
39A	SB	TO BODY HARNESS
40A	BR	TO BODY HARNESS
41A	Y	TO BODY HARNESS
42A	G	TO BODY HARNESS
43A	–	TO BODY HARNESS
44A	W	TO BODY HARNESS
45A	R	TO BODY HARNESS
46A	BG	TO BODY HARNESS
47A	LG	TO BODY HARNESS
48A	R	TO BODY HARNESS
49A	P	TO BODY HARNESS
50A	W	TO BODY HARNESS
51A	L	TO BODY HARNESS
52A	P	TO BODY HARNESS
53A	G	TO BODY HARNESS
54A	W	TO BODY HARNESS
55A	BG	TO BODY HARNESS
56A	BR	TO BODY HARNESS
57A	P	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
57A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
58A	G	TO BODY HARNESS
59A	SB	TO BODY HARNESS
60A	L	TO BODY HARNESS
61A	G	TO BODY HARNESS
62A	BR	TO BODY HARNESS
63A	BR	TO BODY HARNESS
64A	Y	TO BODY HARNESS
65A	W	TO BODY HARNESS
66A	BG	TO BODY HARNESS
67A	Y	TO BODY HARNESS
68A	LG	TO BODY HARNESS
69A	R	TO BODY HARNESS
70A	P	TO BODY HARNESS
71A	BR	TO BODY HARNESS
72A	SB	TO BODY HARNESS
73A	BG	TO BODY HARNESS
74A	BR	TO BODY HARNESS
75A	LG	TO BODY HARNESS
76A	W	TO BODY HARNESS
77A	L	TO BODY HARNESS
78A	V	TO BODY HARNESS
79A	LG	TO BODY HARNESS
80A	Y	TO BODY HARNESS
81A	L	TO BODY HARNESS
82A	BG	TO BODY HARNESS
83A	Y	TO BODY HARNESS
84A	LG	TO BODY HARNESS
85A	SHIELD	TO BODY HARNESS
86A	Y	TO BODY HARNESS
87A	LG	TO BODY HARNESS
88A	BR	TO BODY HARNESS
89A	L	TO BODY HARNESS
90A	P	TO BODY HARNESS
91A	L	TO BODY HARNESS
92A	L	TO BODY HARNESS
93A	B	TO BODY HARNESS
94A	W	TO BODY HARNESS
95A	W	TO BODY HARNESS
96A	–	TO BODY HARNESS
97A	SB	TO BODY HARNESS
98A	Y	TO BODY HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
98A	L	TO BODY HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
99A	–	TO BODY HARNESS
100A	–	TO BODY HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M47
Connector Name	TCU
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	B+
2	B	GND
3	P	ACC
4	LG	IGN
5	G	ACC OUT
6	G	AV ACC
7	B	GND
8	–	–
9	L	V CAN-H
10	P	V CAN-L
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	W	MIC VCC
19	B	MIC SIG
20	SHIELD	MIC GND
21	W	MIC VCC DETECTION
22	B	DCM MIC SIG
23	SHIELD	DCM MIC GND
24	–	–
25	–	–
26	–	–
27	–	–
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	–	–
34	R	ECALL SW
35	W	LED A
36	–	–
37	–	–
38	–	–

39	–	–
40	–	–

Connector No.	M55
Connector Name	AV CONTROL UNIT
Connector Type	GT17HN-4DP-2H(A)
Connector Color	BLUE

H.S.

138	137
140	139
141	

Terminal No.	Color of Wire	Signal Name
137	R	VBUS
138	B	USB GND
139	G	USB D+
140	W	USB D-
141	SHIELD	SHIELD

Connector No.	M56
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO CONSOLE SUB HARNESS
2	W	TO CONSOLE SUB HARNESS
3	SHIELD	TO CONSOLE SUB HARNESS
4	P	TO CONSOLE SUB HARNESS
5	Y	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	SHIELD	TO CONSOLE SUB HARNESS
8	P	TO CONSOLE SUB HARNESS
9	Y	TO CONSOLE SUB HARNESS
10	–	TO CONSOLE SUB HARNESS
11	–	TO CONSOLE SUB HARNESS
12	–	TO CONSOLE SUB HARNESS
13	R	TO CONSOLE SUB HARNESS
14	W	TO CONSOLE SUB HARNESS
15	B	TO CONSOLE SUB HARNESS

16	SHIELD	TO CONSOLE SUB HARNESS

Connector No.	M62
Connector Name	INSTRUMENT PANEL TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR INST TWDR LH+
2	W	FR INST TWDR LH-

Connector No.	M63
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO CONSOLE SUB HARNESS
2	G	TO CONSOLE SUB HARNESS
3	R	TO CONSOLE SUB HARNESS
4	SHIELD	TO CONSOLE SUB HARNESS
5	W	TO CONSOLE SUB HARNESS
6	B	TO CONSOLE SUB HARNESS
7	V	TO CONSOLE SUB HARNESS
8	G	TO CONSOLE SUB HARNESS
9	R	TO CONSOLE SUB HARNESS
10	SHIELD	TO CONSOLE SUB HARNESS
11	W	TO CONSOLE SUB HARNESS
12	B	TO CONSOLE SUB HARNESS
13	L	TO CONSOLE SUB HARNESS
14	G	TO CONSOLE SUB HARNESS
15	R	TO CONSOLE SUB HARNESS
16	SHIELD	TO CONSOLE SUB HARNESS
17	W	TO CONSOLE SUB HARNESS
18	B	TO CONSOLE SUB HARNESS

19	L	TO CONSOLE SUB HARNESS
20	G	TO CONSOLE SUB HARNESS
21	R	TO CONSOLE SUB HARNESS
22	SHIELD	TO CONSOLE SUB HARNESS
23	W	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS

Connector No.	M64
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO CONSOLE SUB HARNESS
2	B	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	LG	TO CONSOLE SUB HARNESS
5	SHIELD	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	BG	TO CONSOLE SUB HARNESS
9	B	TO CONSOLE SUB HARNESS
10	–	TO CONSOLE SUB HARNESS
11	B/W	TO CONSOLE SUB HARNESS
12	BR	TO CONSOLE SUB HARNESS
13	Y	TO CONSOLE SUB HARNESS
14	SB	TO CONSOLE SUB HARNESS
15	L	TO CONSOLE SUB HARNESS
16	LG	TO CONSOLE SUB HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M65
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SUB HARNESS
2	G	TO CONSOLE SUB HARNESS
3	BR	TO CONSOLE SUB HARNESS
4	BG	TO CONSOLE SUB HARNESS
5	W	TO CONSOLE SUB HARNESS
6	P	TO CONSOLE SUB HARNESS
7	W	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	LG	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	R	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
8	L	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
9	V	TO CONSOLE SUB HARNESS
10	BG	TO CONSOLE SUB HARNESS
11	P	TO CONSOLE SUB HARNESS
12	G	TO CONSOLE SUB HARNESS
13	SHIELD	TO CONSOLE SUB HARNESS
14	B	TO CONSOLE SUB HARNESS
15	R	TO CONSOLE SUB HARNESS
16	W	TO CONSOLE SUB HARNESS
17	SB	TO CONSOLE SUB HARNESS
18	P	TO CONSOLE SUB HARNESS
19	G	TO CONSOLE SUB HARNESS
20	BG	TO CONSOLE SUB HARNESS
21	R	TO CONSOLE SUB HARNESS
22	W	TO CONSOLE SUB HARNESS
23	R	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS
25	G	TO CONSOLE SUB HARNESS
26	W	TO CONSOLE SUB HARNESS
27	LG	TO CONSOLE SUB HARNESS
28	B	TO CONSOLE SUB HARNESS
29	BR	TO CONSOLE SUB HARNESS
30	SHIELD	TO CONSOLE SUB HARNESS
31	B	TO CONSOLE SUB HARNESS

32	W	TO CONSOLE SUB HARNESS

Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	L	TO BODY HARNESS
2	G	TO BODY HARNESS
3	Y	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
3	R	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
4	P	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
4	SHIELD	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
5	LG	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	W	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	BG	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	SB	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	G	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
9	R	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
10	SHIELD	TO BODY HARNESS
11	B	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
11	W	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
12	W	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
12	B	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
13	Y	TO BODY HARNESS
14	SB	TO BODY HARNESS
15	LG	TO BODY HARNESS
16	LG	TO BODY HARNESS

17	SB	TO BODY HARNESS
18	G	TO BODY HARNESS
19	P	TO BODY HARNESS
20	W	TO BODY HARNESS
21	R	TO BODY HARNESS
22	B	TO BODY HARNESS
23	SHIELD	TO BODY HARNESS
24	-	TO BODY HARNESS

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1R	R	TAIL LH
2R	LG	IGNITION
3R	G	BATTERY
4R	-	-
5R	Y	BATTERY
6R	Y	IGNITION
7R	-	-
8R	-	-
9R	G	BRAKE
10R	W	BATTERY
11R	-	-
12R	-	-
13R	GR	GROUND
14R	-	-
15R	-	-
16R	BG	IGNITION

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO BODY HARNESS - (WITHOUT NAVI)
1	R	TO BODY HARNESS - (WITH NAVI)
2	B	TO BODY HARNESS - (WITHOUT NAVI)
2	W	TO BODY HARNESS - (WITH NAVI)
3	R	TO BODY HARNESS - (WITHOUT NAVI)
3	B	TO BODY HARNESS - (WITH NAVI)
4	SHIELD	TO BODY HARNESS
5	B	TO BODY HARNESS
6	W	TO BODY HARNESS
7	SHIELD	TO BODY HARNESS
8	B	TO BODY HARNESS
9	SB	TO BODY HARNESS
10	BG	TO BODY HARNESS
11	R	TO BODY HARNESS
12	W	TO BODY HARNESS
13	–	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	L	TO BODY HARNESS
17	P	TO BODY HARNESS - (WITHOUT NAVI)
17	Y	TO BODY HARNESS - (WITH NAVI)
18	Y	TO BODY HARNESS - (WITHOUT NAVI)
18	P	TO BODY HARNESS - (WITH NAVI)
19	W	TO BODY HARNESS - (WITHOUT NAVI)
19	B	TO BODY HARNESS - (WITH NAVI)
20	B	TO BODY HARNESS - (WITHOUT NAVI)
20	W	TO BODY HARNESS - (WITH NAVI)
21	R	TO BODY HARNESS - (WITHOUT NAVI)
21	SHIELD	TO BODY HARNESS - (WITH NAVI)
22	G	TO BODY HARNESS - (WITHOUT NAVI)
22	W	TO BODY HARNESS - (WITH NAVI)
23	SHIELD	TO BODY HARNESS - (WITHOUT NAVI)
23	R	TO BODY HARNESS - (WITH NAVI)
24	SHIELD	TO BODY HARNESS
25	B	TO BODY HARNESS
26	G	TO BODY HARNESS
27	R	TO BODY HARNESS - (WITHOUT NAVI)
27	B	TO BODY HARNESS - (WITH NAVI)
28	B	TO BODY HARNESS - (WITHOUT NAVI)
28	R	TO BODY HARNESS - (WITH NAVI)
29	G	TO BODY HARNESS - (WITH NAVI)
29	W	TO BODY HARNESS - (WITHOUT NAVI)
30	SHIELD	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

Connector No.	M70
Connector Name	SONAR CONTROL UNIT
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	FIR SENSOR SIGNAL
2	B	FIL SENSOR SIGNAL
3	R	FOL SENSOR SIGNAL
4	R	FOR SENSOR SIGNAL
5	B	V CAN-H
6	W	V CAN-L
7	–	–
8	–	–
9	B	RIR SENSOR SIGNAL
10	B	ROR SENSOR SIGNAL
11	–	–
12	LG	IGN
13	B	FR SENSOR GND
14	B	RR SENSOR GND
15	GR	GND
16	LG	DISABLE SW
17	GR	LED OUTPUT
18	–	–
19	BR	SPEAKER PWR
20	LG	SPEAKER RR SIGNAL
21	B	RIL SENSOR SIGNAL
22	W	ROL SENSOR SIGNAL
23	–	–
24	–	–

Connector No.	M73
Connector Name	INSTRUMENT PANEL TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR INST TWDR RH+
2	W	FR INST TWDR RH-

Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK

H.S.

116	115	114	113	112	111	110	109	108	107	106	105
128	127	126	125	124	123	122	121	120	119	118	117

Terminal No.	Color of Wire	Signal Name
105	LG	FR FLASHER
106	–	–
107	W	LOW SIDE START SW LED
108	G	SHIFT LOCK SOLENOID OUT
109	R	REVERSE SIGNAL
110	–	–
111	P	ACC LED
112	–	–
113	L	ACC RELAY OUT
114	W	AS DOOR ANT A
115	BG	AS DOOR ANT B
116	W	ROOM ANT 2 A
117	SB	FL FLASHER
118	–	–
119	R	RF NIMOCO
120	–	–
121	G	DR DOOR ANT B
122	P	DR DOOR ANT A
123	–	–
124	–	–
125	–	–
126	P	IMMO START BUTTON ANT B
127	BG	IMMO START BUTTON ANT A
128	R	ROOM ANT 2 B

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	SHIELD	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	P	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS RH
10	G	TO BODY HARNESS RH
11	L	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	P	TO BODY HARNESS RH
15	O	TO BODY HARNESS RH
16	SB	TO BODY HARNESS RH
17	L	TO BODY HARNESS RH
18	P	TO BODY HARNESS RH
19	R	TO BODY HARNESS RH
20	–	TO BODY HARNESS RH
21	G	TO BODY HARNESS RH
22	R	TO BODY HARNESS RH
23	G	TO BODY HARNESS RH
24	R	TO BODY HARNESS RH - (WITH CLIMATE CONTROLLED SEAT)
24	V	TO BODY HARNESS RH - (WITHOUT CLIMATE CONTROLLED SEAT)

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT DOOR RH HARNESS
2	SHIELD	TO FRONT DOOR RH HARNESS
3	G	TO FRONT DOOR RH HARNESS
4	R	TO FRONT DOOR RH HARNESS
5	B	TO FRONT DOOR RH HARNESS
6	G	TO FRONT DOOR RH HARNESS
7	Y	TO FRONT DOOR RH HARNESS
8	W	TO FRONT DOOR RH HARNESS
9	BG	TO FRONT DOOR RH HARNESS
10	P	TO FRONT DOOR RH HARNESS
11	LG	TO FRONT DOOR RH HARNESS
12	B	TO FRONT DOOR RH HARNESS
13	W	TO FRONT DOOR RH HARNESS
14	Y/R	TO FRONT DOOR RH HARNESS
15	GR	TO FRONT DOOR RH HARNESS
16	B/W	TO FRONT DOOR RH HARNESS
17	BG	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	G	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	W	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	BG	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	G	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
19	P	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
20	G	TO FRONT DOOR RH HARNESS
21	W	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	R	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
22	SB	TO FRONT DOOR RH HARNESS
23	P	TO FRONT DOOR RH HARNESS
24	G	TO FRONT DOOR RH HARNESS
25	BG	TO FRONT DOOR RH HARNESS
26	W	TO FRONT DOOR RH HARNESS
27	–	TO FRONT DOOR RH HARNESS
28	–	TO FRONT DOOR RH HARNESS
29	W	TO FRONT DOOR RH HARNESS
30	SB	TO FRONT DOOR RH HARNESS
31	W	TO FRONT DOOR RH HARNESS
32	–	TO FRONT DOOR RH HARNESS

Connector No.	M92
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	–	–
6	SHIELD	FRONT COMP SHIELD
7	SHIELD	SHIELD
8	B	R CAMERA COMP
9	B	FRONT DISP IT
10	W	IT FRONT DISP
11	Y	BATT
12	B	GND
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	B	FRONT COMP +
19	W	FRONT COMP -
20	R	FRONT COMP SYNC
21	–	–

22	SHIELD	SHIELD
23	P	ACC
24	–	–

Connector No.	M95
Connector Name	WIRE TO WIRE
Connector Type	GT13SH-2/1S-HU
Connector Color	GRAY

H.S.

1	2
	3
4	5

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M96
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	Y	+B
3	LG	IGN
4	P	ACC
5	–	–
6	–	–
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	–	–
19	B	MCAN-1H
20	W	MCAN-1L
21	–	–
22	–	–
23	SHIELD	MCAN GND
24	–	–
25	LG	REV
26	–	–
27	B	CAN-H
28	W	CAN-L
29	SHIELD	CAN GND
30	W	MIRROR SIGNAL 2
31	–	–
32	G	MIRROR SIGNAL 1
33	–	–
34	–	–
35	–	–
36	–	–
37	–	–
38	–	–
39	–	–
40	–	–

Connector No.	M97
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72
41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71

Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	–	–
47	B	VIDEO OUTPUT +
48	SHIELD	VIDEO OUTPUT -
49	W	RV SERIAL SIGNAL
50	B	RV POWER
51	–	–
52	R	RV POWER GND
53	G	RV VIDEO +
54	SHIELD	RV VIDEO -
55	B	SV2 SERIAL SIGNAL
56	W	SV2 POWER
57	–	–
58	G	SV2 POWER GND
59	R	SV2 VIDEO +
60	SHIELD	SV2 POWER GND
61	W	SV1 SERIAL SIGNAL
62	B	SV1 POWER
63	–	–
64	R	SV1 POWER GND
65	G	SV1 VIDEO +
66	SHIELD	SV1 VIDEO -
67	B	FV SERIAL SIGNAL
68	W	FV POWER
69	–	–
70	G	FV POWER GND
71	R	FV VIDEO +
72	SHIELD	FV VIDEO -

Connector No.	M98
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	GR	GND
2	–	–
3	P	ACC
4	R	ILL
5	B	ILL CONT
6	SB	MCAN-H
7	–	–
8	LG	MCAN-L
9	V	EJECT GND
10	–	–
11	–	–
12	–	–
13	–	–
14	Y	CD (DVD) EJECT
15	R	AIRBAG CUTOFF
16	LG	HAZARD

Connector No.	M109
Connector Name	FRONT TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	P	FR DR SP LH+ (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
1	G	FR DR SP LH+ (WITH BOSE AUDIO SYSTEM WITH SURROUND SOUND SYSTEM)
2	W	FR DR SP LH- (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)

2	R	FR DR SP LH- (WITH BOSE AUDIO SYSTEM WITH SURROUND SOUND SYSTEM)

Connector No.	M110
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FRONT CENTER SP+
2	W	FRONT CENTER SP-

Connector No.	M111
Connector Name	FRONT TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	W	FR DR SP RH+ (WITH SURROUND SOUND SYSTEM)
1	G	FR DR SP RH+ (WITHOUT SURROUND SOUND SYSTEM)
2	B	FR DR SP RH- (WITH SURROUND SOUND SYSTEM)
2	W	FR DR SP RH- (WITHOUT SURROUND SOUND SYSTEM)

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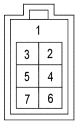
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M115
Connector Name	WIRE TO WIRE
Connector Type	GT17VS-6DS-HU
Connector Color	GRAY

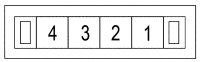
H.S.



Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO CONSOLE SUB HARNESS
2	R	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	W	TO CONSOLE SUB HARNESS
5	–	TO CONSOLE SUB HARNESS
6	G	TO CONSOLE SUB HARNESS
7	–	TO CONSOLE SUB HARNESS

Connector No.	M120
Connector Name	JOINT CONNECTOR-M21
Connector Type	TK04FW-J
Connector Color	WHITE

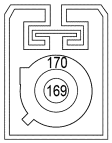
H.S.



Terminal No.	Color of Wire	Signal Name
1	LG	REVERSE LAMP OUT
2	LG	REVERSE LAMP OUT
3	LG	REVERSE LAMP OUT
4	–	–

Connector No.	M133
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA CODING C
Connector Color	PINK

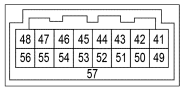
H.S.



Terminal No.	Color of Wire	Signal Name
169	B	SAT ANT
170	SHIELD	SAT SHIELD

Connector No.	M134
Connector Name	TCU
Connector Type	GT17HN-16DP-2H
Connector Color	GRAY

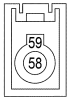
H.S.



Terminal No.	Color of Wire	Signal Name
41	W	U-VOICE
42	L	VOICE GND
43	–	–
44	–	–
45	–	–
46	B	MANUFACTURE SPECIFIC
47	B	USB VBUS
48	B	USB D-
49	B	D-VOICE
50	–	–
51	–	–
52	–	–
53	–	–
54	–	–
55	SHIELD	USB GND
56	L/W	D+
57	SHIELD	CONN CHASSIS GND

Connector No.	M135
Connector Name	TCU
Connector Type	GT16C-1S-HU
Connector Color	GRAY

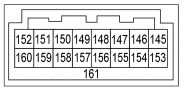
H.S.



Terminal No.	Color of Wire	Signal Name
58	B	TEL ANT
59	SHIELD	TEL SHIELD

Connector No.	M136
Connector Name	AV CONTROL UNIT (WITH TELEMATICS SYSTEM)
Connector Type	GT17HN-16DP-2H
Connector Color	GRAY

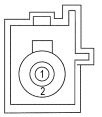
H.S.



Terminal No.	Color of Wire	Signal Name
145	B	USB D-
146	B	USB VBUS
147	B	MANUFACTURE SPECIFIC
148	–	–
149	–	–
150	–	–
151	L	VOICE GND
152	W	U-VOICE
153	L/W	D+
154	SHIELD	USB GND
155	–	–
156	–	–
157	–	–
158	–	–
159	–	–
160	B	D-VOICE
161	SHIELD	CONN CHASSIS GND

Connector No.	M138
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU (B)
Connector Color	GREEN

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	M140
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT17H-4DP-2H
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
162	–	–
163	–	–
164	W	GVIF-
165	R	GVIF+
166	SHIELD	SHIELD

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

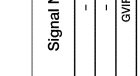
Connector No.	M141
Connector Name	DISPLAY UNIT
Connector Type	GT17H-4DP-2H
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
25	–	–
26	–	–
27	W	GVIF-
28	R	GVIF+
29	SHIELD	SHIELD

Connector No.	M143
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU
Connector Color	GRAY

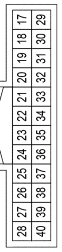
H.S.



Terminal No.	Color of Wire	Signal Name
171	B	ANT +B
172	B	ANT MAIN
173	SHIELD	SHIELD
174	B	ANT SUB
175	SHIELD	SHIELD

Connector No.	M148
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH24FW-NH
Connector Color	WHITE

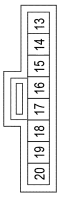
H.S.



Terminal No.	Color of Wire	Signal Name
17	–	–
18	–	–
19	G/W	AIRBAG CUTOFF
20	BR	ILL
21	W/L	ENCD-B 2
22	G	ENCD-PUSH 1
23	L	ENCD-B 1
24	Y	KEY-SCAN IN 2
25	R	KEY-SCAN IN 0
26	W/V	KEY-SCAN OUT 1
27	W/B	KEY-SCAN OUT 3
28	P	CD (DVD) EJECT
29	–	–
30	–	–
31	V	ILL CONT
32	G	ENCD-A 2
33	L/R	ENCD-PUSH 2
34	GR	ENCD-A 1
35	W/R	KEY-SCAN IN 3
36	O	KEY-SCAN IN 1
37	G	KEY-SCAN OUT 0
38	L	KEY-SCAN OUT 2
39	SB	KEY-SCAN OUT 4
40	B	GND

Connector No.	M149
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY
Connector Color	GRAY

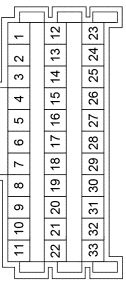
H.S.



Terminal No.	Color of Wire	Signal Name
13	R	ASCD
14	B	AUDIO STRG SW REMOTE A
15	GR	AUDIO STRG SW REMOTE B
16	L	ASCDG
17	BR	AUDIO STRG SW GND
18	G	HORN SWITCH
19	Y	ILL CONT
20	W	ILL

Connector No.	M150
Connector Name	JOINT CONNECTOR-M27
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

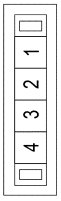


Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	B	GROUND
5	B	GROUND
6	B	GROUND
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–

15	W	SENSOR POWER
16	W	SENSOR POWER
17	W	SENSOR POWER
18	–	–
19	–	–
20	–	–
21	SHIELD	GROUND
22	SHIELD	GROUND
23	GR	GROUND
24	SHIELD	GROUND
25	SHIELD	GROUND
26	SHIELD	GROUND
27	SHIELD	GROUND
28	SHIELD	GROUND
29	SHIELD	GROUND
30	SHIELD	GROUND
31	GR	GROUND
32	B	GROUND
33	B	GROUND

Connector No.	M151
Connector Name	JOINT CONNECTOR-M14
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	FR DOOR RH- OUT
3	W	FR DOOR RH- OUT
4	B	FR DOOR RH- OUT

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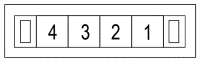
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M152
Connector Name	JOINT CONNECTOR-M19
Connector Type	TK04FW-J
Connector Color	WHITE

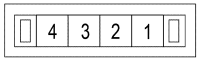
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	G	FR DOOR RH+ OUT
3	G	FR DOOR RH+ OUT
4	G	FR DOOR RH+ OUT

Connector No.	M153
Connector Name	JOINT CONNECTOR-M16
Connector Type	TK04FW-J
Connector Color	WHITE

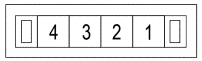
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	G	FR DOOR RH+ OUT
3	G	FR DOOR RH+ OUT
4	W	FR DOOR RH+ OUT

Connector No.	M154
Connector Name	JOINT CONNECTOR-M20
Connector Type	TK04FW-J
Connector Color	WHITE

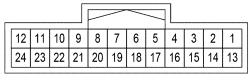
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	FR DOOR RH- OUT
3	R	FR DOOR RH- OUT
4	W	FR DOOR RH- OUT

Connector No.	M155
Connector Name	PRESET SWITCH
Connector Type	TH24FW-NH
Connector Color	WHITE

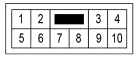
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	G/W	AIRBAG CUTOFF
4	BR	ILL
5	W/L	ENCD-B 2
6	G	ENCD-PUSH 1
7	L	ENCD-B 1
8	Y	KEY-SCAN IN 2
9	R	KEY-SCAN IN 0
10	W/V	KEY-SCAN OUT 1
11	W/B	KEY-SCAN OUT 3
12	P	CD (DVD) EJECT
13	–	–
14	–	–
15	V	ILL CONT
16	G	ENCD-A 2
17	L/R	ENCD-PUSH 2
18	GR	ENCD-A 1
19	W/R	KEY-SCAN IN 3
20	O	KEY-SCAN IN 1
21	G	KEY-SCAN OUT 0
22	L	KEY-SCAN OUT 2
23	SB	KEY-SCAN OUT 4
24	B	GND

Connector No.	M158
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS
Connector Color	WHITE

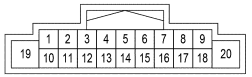
H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT DOOR RH HARNESS
2	B	TO FRONT DOOR RH HARNESS
3	SHIELD	TO FRONT DOOR RH HARNESS
4	BR	TO FRONT DOOR RH HARNESS
5	Y	TO FRONT DOOR RH HARNESS
6	L	TO FRONT DOOR RH HARNESS
7	LG	TO FRONT DOOR RH HARNESS
8	GR	TO FRONT DOOR RH HARNESS
9	BR	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
9	G	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
10	Y	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
10	W	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

Connector No.	M161
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI AND SURROUND SOUND SYSTEM)
Connector Type	NH18FW-CS2
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	B	FR LH PRE+
3	W	FR LH PRE-
4	B	RR LH PRE+
5	W	RR LH PRE-
6	G	STRG SW A
7	G	ACC
8	–	–
9	–	–
10	BR	SHIELD
11	W	FR RH PRE+
12	B	FR RH PRE-
13	B	RR RH PRE+
14	W	RR RH PRE-
15	B	STRG SW GND
16	W	STRG SW B
17	–	–
18	–	–
19	Y	+B
20	GR	GND

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M162
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI AND SURROUND SOUND SYSTEM)
Connector Type	TH28FW
Connector Color	WHITE

H.S.

21	22	23	24	25	26	27	28	29	30	31	32	33	34
35	36	37	38	39	40	41	42	43	44	45	46	47	48

Terminal No.	Color of Wire	Signal Name
21	–	–
22	–	–
23	–	–
24	W	AUX AUDIO LH
25	–	–
26	W	HP 1 LH+
27	B	HP 1 RH+
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	–	–
34	–	–
35	–	–
36	–	–
37	SHIELD	AUX SHIELD
38	R	AUX AUDIO RH
39	B	AUX AUDIO-
40	R	HP 1 LH-
41	G	HP 1 RH-
42	SHIELD	HP 1 SHIELD
43	–	–
44	–	–
45	–	–
46	–	–
47	–	–
48	–	–

Connector No.	M163
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI AND SURROUND SOUND SYSTEM)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

Terminal No.	Color of Wire	Signal Name
49	–	–
50	–	–
51	–	–
52	–	–
53	G	PKB SIG
54	–	–
55	W	NAVI COMP1-
56	B	NAVI COMP1+
57	BG	RESERVE I1
58	G	RESERVE I2
59	SHIELD	MIC GND
60	W	MIC VCC
61	W	IT-DISP
62	P	CAN-L
63	LG	M-CAN L
64	LG	M-CAN L TRM
65	–	–
66	–	–
67	P	MR OUTPUT
68	LG	IGN
69	R	REVERSE SIG
70	BG	SPEED
71	SHIELD	NAVI COMP1 SHIELD
72	R	GND
73	–	–
74	–	–
75	B	MIC SIG
76	SHIELD	DISP SHIELD
77	B	DISP-IT
78	L	CAN-H
79	SB	M-CAN H
80	SB	M-CAN H TRM

Connector No.	M164
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI AND SURROUND SOUND SYSTEM)
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

81	83	85	87	89	91	93	95	97	99	101	103	105	107	109	111	113	115	117	119
82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120

Terminal No.	Color of Wire	Signal Name
81	–	–
82	–	–
83	–	–
84	–	–
85	–	–
86	–	–
87	–	–
88	–	–
89	–	–
90	–	–
91	W	AUX VIDEO+
92	B	AUX VIDEO-
93	–	–
94	SHIELD	VIDEO SHIELD
95	–	–
96	–	–
97	Y	DVD EJECT
98	V	EJECT GND
99	–	–
100	–	–
101	–	–
102	–	–
103	–	–
104	–	–
105	W	NAVI COMP2-
106	SHIELD	NAVI COMP2 SHIELD
107	B	NAVI COMP2+
108	–	–
109	–	–
110	–	–
111	–	–
112	–	–
113	–	–
114	–	–
115	–	–

116	–	–
117	–	–
118	–	–
119	–	–
120	–	–

Connector No.	M165
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI AND SURROUND SOUND SYSTEM)
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136

Terminal No.	Color of Wire	Signal Name
121	–	–
122	B	GUIDE+
123	W	GUIDE-
124	B	SUB WOOFER PRE+
125	W	CENTER PRE+
126	Y	CENTER SHIELD
127	–	–
128	–	–
129	–	–
130	–	–
131	SHIELD	GUIDE SHIELD
132	W	SUB WOOFER PRE-
133	B	CENTER PRE-
134	–	–
135	–	–
136	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M167
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO FRONT DOOR LH HARNESS
2	V	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	V	TO FRONT DOOR LH HARNESS
5	SB	TO FRONT DOOR LH HARNESS
6	BR	TO FRONT DOOR LH HARNESS
7	Y	TO FRONT DOOR LH HARNESS
8	W	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
8	V	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
9	P	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM (WITHOUT SURROUND SOUND SYSTEM)
9	G	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
9	SB	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
10	L	TO FRONT DOOR LH HARNESS
11	BR	TO FRONT DOOR LH HARNESS
12	Y	TO FRONT DOOR LH HARNESS
13	LG	TO FRONT DOOR LH HARNESS
14	SHIELD	TO FRONT DOOR LH HARNESS
15	B	TO FRONT DOOR LH HARNESS
16	W	TO FRONT DOOR LH HARNESS

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO FRONT DOOR LH HARNESS
2	R	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	P	TO FRONT DOOR LH HARNESS
5	V	TO FRONT DOOR LH HARNESS
6	R	TO FRONT DOOR LH HARNESS
7	G	TO FRONT DOOR LH HARNESS
8	P	TO FRONT DOOR LH HARNESS
9	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
9	R	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
10	R	TO FRONT DOOR LH HARNESS
11	G	TO FRONT DOOR LH HARNESS
12	P	TO FRONT DOOR LH HARNESS
13	P	TO FRONT DOOR LH HARNESS
14	BG	TO FRONT DOOR LH HARNESS
15	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	G	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
16	G	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
17	G	TO FRONT DOOR LH HARNESS
18	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	BG	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	W	TO FRONT DOOR LH HARNESS
20	SB	TO FRONT DOOR LH HARNESS
21	P	TO FRONT DOOR LH HARNESS
22	W	TO FRONT DOOR LH HARNESS
23	G	TO FRONT DOOR LH HARNESS
24	SB	TO FRONT DOOR LH HARNESS
25	R	TO FRONT DOOR LH HARNESS
26	B	TO FRONT DOOR LH HARNESS
27	–	TO FRONT DOOR LH HARNESS
28	B	TO FRONT DOOR LH HARNESS
29	SHIELD	TO FRONT DOOR LH HARNESS
30	R	TO FRONT DOOR LH HARNESS
31	G	TO FRONT DOOR LH HARNESS
32	W	TO FRONT DOOR LH HARNESS
33	BG	TO FRONT DOOR LH HARNESS
34	Y	TO FRONT DOOR LH HARNESS
35	R	TO FRONT DOOR LH HARNESS
36	BG	TO FRONT DOOR LH HARNESS
37	W	TO FRONT DOOR LH HARNESS
38	P	TO FRONT DOOR LH HARNESS
39	W	TO FRONT DOOR LH HARNESS
40	P	TO FRONT DOOR LH HARNESS

Connector No.	M170
Connector Name	JOINT CONNECTOR-M09
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SHIELD	SHIELD
2	Y	SHIELD
3	SHIELD	SHIELD
4	–	–
5	–	–
6	GR	SHIELD
7	SHIELD	SHIELD
8	SHIELD	SHIELD
9	SHIELD	SHIELD
10	SHIELD	SHIELD
11	–	–
12	G	SENS GND
13	–	–
14	G	SENS GND
15	G	SENS GND
16	G	SENS GND
17	G	SENS GND
18	Y	SENS GND
19	Y	SENS GND
20	Y	SENS GND
21	Y	SENS GND
22	Y	SENS GND
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	W	PW LIN
29	W	PW LIN
30	W	PW LIN
31	–	–
32	W	PW LIN
33	W	PW LIN

ABNIA9077GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M175
Connector Name	JOINT CONNECTOR-M22
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	BATTERY
2	Y	BATTERY
3	Y	BATTERY
4	Y	BATTERY
5	Y	BATTERY
6	Y	BATTERY
7	Y	BATTERY
8	Y	BATTERY
9	Y	BATTERY
10	–	–
11	Y	BATTERY
12	R	BATTERY
13	R	BATTERY
14	R	BATTERY
15	B	ILLUMI CONT OUT
16	B	ILLUMI CONT OUT
17	B	ILLUMI CONT OUT
18	–	–
19	L	DOOR LOCK DR/AS/FL
20	L	DOOR LOCK DR/AS/FL
21	L	DOOR LOCK DR/AS/FL
22	L	DOOR LOCK DR/AS/FL
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	–	–
29	P	ACCESSORY
30	P	ACCESSORY
31	P	ACCESSORY
32	P	ACCESSORY
33	–	–

Connector No.	M176
Connector Name	JOINT CONNECTOR-M56
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	SB	M CAN-H
2	SB	M CAN-H
3	SB	M CAN-H
4	SB	M CAN-H

Connector No.	M177
Connector Name	JOINT CONNECTOR-M57
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	LG	M CAN-L
2	LG	M CAN-L
3	LG	M CAN-L
4	LG	M CAN-L

Connector No.	M178
Connector Name	JOINT CONNECTOR-M58
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	SB	M CAN-H
2	B	M CAN-H
3	SB	M CAN-H
4	–	–

Connector No.	M179
Connector Name	JOINT CONNECTOR-M59
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	LG	M CAN-L
2	W	M CAN-L
3	LG	M CAN-L
4	–	–

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO CONSOLE SWITCH SUB HARNESS
2	Y	TO CONSOLE SWITCH SUB HARNESS
3	V	TO CONSOLE SWITCH SUB HARNESS
4	–	TO CONSOLE SWITCH SUB HARNESS
5	SHIELD	TO CONSOLE SWITCH SUB HARNESS
6	W	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	BG	TO CONSOLE SWITCH SUB HARNESS
9	B	TO CONSOLE SWITCH SUB HARNESS
10	B	TO CONSOLE SWITCH SUB HARNESS
11	R	TO CONSOLE SWITCH SUB HARNESS
12	BR	TO CONSOLE SWITCH SUB HARNESS
13	LG	TO CONSOLE SWITCH SUB HARNESS
14	L	TO CONSOLE SWITCH SUB HARNESS
15	LG	TO CONSOLE SWITCH SUB HARNESS
16	Y	TO CONSOLE SWITCH SUB HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M202
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	W	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	SB	TO CONSOLE SWITCH SUB HARNESS
10	W	TO CONSOLE SWITCH SUB HARNESS
11	B	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	B	TO CONSOLE SWITCH SUB HARNESS
14	LG	TO CONSOLE SWITCH SUB HARNESS
15	W	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	B	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	B	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	R	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	L	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M205
Connector Name	FRONT AUXILIARY INPUT JACKS
Connector Type	A08FW
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
1	W	AUX AUDIO RH+
2	B	AUX GND
3	R	AUX AUDIO LH+
4	–	–
5	–	–
6	–	–
7	W	COMP1 IN +
8	B	COMP1 IN -

Connector No.	M208
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SWITCH SUB HARNESS
2	SHIELD	TO CONSOLE SWITCH SUB HARNESS
3	B	TO CONSOLE SWITCH SUB HARNESS
4	W	TO CONSOLE SWITCH SUB HARNESS
5	SB	TO CONSOLE SWITCH SUB HARNESS
6	G	TO CONSOLE SWITCH SUB HARNESS
7	R	TO CONSOLE SWITCH SUB HARNESS
8	SHIELD	TO CONSOLE SWITCH SUB HARNESS
9	W	TO CONSOLE SWITCH SUB HARNESS
10	B	TO CONSOLE SWITCH SUB HARNESS
11	V	TO CONSOLE SWITCH SUB HARNESS
12	G	TO CONSOLE SWITCH SUB HARNESS
13	R	TO CONSOLE SWITCH SUB HARNESS
14	SHIELD	TO CONSOLE SWITCH SUB HARNESS
15	W	TO CONSOLE SWITCH SUB HARNESS
16	B	TO CONSOLE SWITCH SUB HARNESS
17	SHIELD	TO CONSOLE SWITCH SUB HARNESS
18	B	TO CONSOLE SWITCH SUB HARNESS
19	R	TO CONSOLE SWITCH SUB HARNESS
20	W	TO CONSOLE SWITCH SUB HARNESS
21	L	TO CONSOLE SWITCH SUB HARNESS
22	G	TO CONSOLE SWITCH SUB HARNESS
23	R	TO CONSOLE SWITCH SUB HARNESS
24	SHIELD	TO CONSOLE SWITCH SUB HARNESS
25	W	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	L	TO CONSOLE SWITCH SUB HARNESS
28	G	TO CONSOLE SWITCH SUB HARNESS
29	R	TO CONSOLE SWITCH SUB HARNESS
30	SHIELD	TO CONSOLE SWITCH SUB HARNESS
31	W	TO CONSOLE SWITCH SUB HARNESS
32	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M209
Connector Name	USB INTERFACE
Connector Type	HAA04FG
Connector Color	GREEN

H.S.

2	1
4	3
5	

Terminal No.	Color of Wire	Signal Name
1	B	USB GND
2	R	V-BUS
3	W	USB D-
4	G	USB D+
5	SHIELD	SHIELD

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M210
Connector Name	WIRE TO WIRE
Connector Type	GT17VS-6DP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	W	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	G	TO MAIN HARNESS
7	–	TO MAIN HARNESS

Connector No.	M214
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	V	TO MAIN HARNESS
5	Y	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS
10	–	TO MAIN HARNESS
11	–	TO MAIN HARNESS
12	–	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	R	TO MAIN HARNESS
15	B	TO MAIN HARNESS

16	SHIELD	TO MAIN HARNESS

Connector No.	M215
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	W	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	V	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	R	TO MAIN HARNESS
10	SHIELD	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	L	TO MAIN HARNESS
14	G	TO MAIN HARNESS
15	R	TO MAIN HARNESS
16	SHIELD	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	B	TO MAIN HARNESS
19	L	TO MAIN HARNESS
20	G	TO MAIN HARNESS
21	R	TO MAIN HARNESS
22	SHIELD	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	B	TO MAIN HARNESS

Connector No.	M216
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	R	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	B	TO MAIN HARNESS
8	BG	TO MAIN HARNESS
9	B	TO MAIN HARNESS
10	–	TO MAIN HARNESS
11	–	TO MAIN HARNESS
12	BR	TO MAIN HARNESS
13	LG	TO MAIN HARNESS
14	L	TO MAIN HARNESS
15	LG	TO MAIN HARNESS
16	Y	TO MAIN HARNESS

Connector No.	M217
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	BG	TO MAIN HARNESS
3	Y	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	P	TO MAIN HARNESS

7	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	W	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	L	TO MAIN HARNESS
9	G	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
9	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
10	V	TO MAIN HARNESS
11	P	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	SHIELD	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	W	TO MAIN HARNESS
16	R	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	L	TO MAIN HARNESS
19	G	TO MAIN HARNESS
20	Y	TO MAIN HARNESS
21	B	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	R	TO MAIN HARNESS
24	B	TO MAIN HARNESS
25	G	TO MAIN HARNESS
26	W	TO MAIN HARNESS
27	LG	TO MAIN HARNESS
28	B	TO MAIN HARNESS
29	BR	TO MAIN HARNESS
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	W	TO MAIN HARNESS

Connector No.	M230
Connector Name	JOINT CONNECTOR-M01
Connector Type	A06FGY
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	B	GND
3	SHIELD	GND
4	SHIELD	GND
5	–	–
6	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M231
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	SB	TO CONSOLE SWITCH SUB HARNESS
10	G	TO CONSOLE SWITCH SUB HARNESS
11	R	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	W	TO CONSOLE SWITCH SUB HARNESS
14	B	TO CONSOLE SWITCH SUB HARNESS
15	V	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	SHIELD	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	–	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	R	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	L	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M251
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO CONSOLE SUB HARNESS
2	Y	TO CONSOLE SUB HARNESS
3	V	TO CONSOLE SUB HARNESS
4	G	TO CONSOLE SUB HARNESS
5	SHIELD	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	BG	TO CONSOLE SUB HARNESS
9	B	TO CONSOLE SUB HARNESS
10	B	TO CONSOLE SUB HARNESS
11	R	TO CONSOLE SUB HARNESS
12	P	TO CONSOLE SUB HARNESS
13	BR	TO CONSOLE SUB HARNESS
14	SB	TO CONSOLE SUB HARNESS
15	LG	TO CONSOLE SUB HARNESS
16	Y	TO CONSOLE SUB HARNESS

Connector No.	M254
Connector Name	REAR AUXILIARY INPUT JACKS
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	VTR VIDEO+ OUT
2	B	VTR VIDEO- OUT
3	B	VTR AUDIO GND
4	R	VTR AUDIO L+ OUT
5	W	VTR AUDIO R+ OUT
6	–	–
7	–	–
8	–	–
9	SHIELD	AUDIO SHIELD IN1
10	–	–
11	R	RR AUDIO R+ IN1
12	–	–
13	G	RR AUDIO R- IN1
14	B	RR AUDIO L+ IN1
15	V	AV GND IN (A GND)
16	W	RR AUDIO L- IN1
17	R	RR AUDIO R+ IN2
18	BG	AV GND IN2 (A GND)
19	G	RR AUDIO R- IN2
20	R	RR AUDIO L+ IN2
21	SHIELD	AUDIO SHIELD IN2
22	W	RR AUDIO L- IN2
23	SHIELD	AUDIO SHIELD OUT2
24	W	RR AUDIO L- OUT1
25	G	RR AUDIO R- OUT2
26	B	RR AUDIO L+ OUT2
27	R	RR AUDIO R+ OUT2
28	L	AV GND OUT2 (A GND)
29	P	AV GND OUT1 (A GND)
30	W	RR AUDIO L- OUT1
31	G	RR AUDIO R- OUT1
32	B	RR AUDIO L+ OUT1
33	R	RR AUDIO R+ OUT1
34	–	–
35	SHIELD	AUDIO SHIELD OUT1
36	–	–
37	–	–
38	V	ACC
39	B	GND (POWER)
40	Y	BAT

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M257
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SUB HARNESS
2	LG	TO CONSOLE SUB HARNESS
3	W	TO CONSOLE SUB HARNESS
4	G	TO CONSOLE SUB HARNESS
5	–	TO CONSOLE SUB HARNESS
6	SHIELD	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	W	TO CONSOLE SUB HARNESS
9	BG	TO CONSOLE SUB HARNESS
10	W	TO CONSOLE SUB HARNESS
11	B	TO CONSOLE SUB HARNESS
12	SHIELD	TO CONSOLE SUB HARNESS
13	B	TO CONSOLE SUB HARNESS
14	LG	TO CONSOLE SUB HARNESS
15	W	TO CONSOLE SUB HARNESS
16	G	TO CONSOLE SUB HARNESS
17	R	TO CONSOLE SUB HARNESS
18	B	TO CONSOLE SUB HARNESS
19	W	TO CONSOLE SUB HARNESS
20	B	TO CONSOLE SUB HARNESS
21	B	TO CONSOLE SUB HARNESS
22	R	TO CONSOLE SUB HARNESS
23	B	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS
25	SHIELD	TO CONSOLE SUB HARNESS
26	R	TO CONSOLE SUB HARNESS
27	B	TO CONSOLE SUB HARNESS
28	W	TO CONSOLE SUB HARNESS
29	L	TO CONSOLE SUB HARNESS
30	G	TO CONSOLE SUB HARNESS
31	R	TO CONSOLE SUB HARNESS
32	SHIELD	TO CONSOLE SUB HARNESS
33	W	TO CONSOLE SUB HARNESS
34	B	TO CONSOLE SUB HARNESS
35	P	TO CONSOLE SUB HARNESS
36	G	TO CONSOLE SUB HARNESS
37	R	TO CONSOLE SUB HARNESS
38	SHIELD	TO CONSOLE SUB HARNESS

39	W	TO CONSOLE SUB HARNESS
40	B	TO CONSOLE SUB HARNESS

Connector No.	M259
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SUB HARNESS
2	SHIELD	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	W	TO CONSOLE SUB HARNESS
5	BG	TO CONSOLE SUB HARNESS
6	G	TO CONSOLE SUB HARNESS
7	R	TO CONSOLE SUB HARNESS
8	SHIELD	TO CONSOLE SUB HARNESS
9	W	TO CONSOLE SUB HARNESS
10	B	TO CONSOLE SUB HARNESS
11	V	TO CONSOLE SUB HARNESS
12	G	TO CONSOLE SUB HARNESS
13	R	TO CONSOLE SUB HARNESS
14	SHIELD	TO CONSOLE SUB HARNESS
15	W	TO CONSOLE SUB HARNESS
16	B	TO CONSOLE SUB HARNESS
17	SHIELD	TO CONSOLE SUB HARNESS
18	R	TO CONSOLE SUB HARNESS
19	B	TO CONSOLE SUB HARNESS
20	W	TO CONSOLE SUB HARNESS
21	L	TO CONSOLE SUB HARNESS
22	G	TO CONSOLE SUB HARNESS
23	R	TO CONSOLE SUB HARNESS
24	SHIELD	TO CONSOLE SUB HARNESS
25	W	TO CONSOLE SUB HARNESS
26	B	TO CONSOLE SUB HARNESS
27	P	TO CONSOLE SUB HARNESS
28	G	TO CONSOLE SUB HARNESS
29	R	TO CONSOLE SUB HARNESS
30	SHIELD	TO CONSOLE SUB HARNESS
31	W	TO CONSOLE SUB HARNESS
32	B	TO CONSOLE SUB HARNESS

Connector No.	M269
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	BG	TO CONSOLE SWITCH SUB HARNESS
10	G	TO CONSOLE SWITCH SUB HARNESS
11	R	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	W	TO CONSOLE SWITCH SUB HARNESS
14	B	TO CONSOLE SWITCH SUB HARNESS
15	V	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	SHIELD	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	–	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	R	TO CONSOLE SWITCH SUB HARNESS
27	B	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	P	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M500
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1 PP-HU
Connector Color	GRAY

H.S.

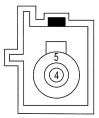
Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS

ABNIA9082GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M501
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU (B)
Connector Color	GREEN

H.S.



Terminal No.	Color of Wire	Signal Name
4	B	SAT ANT
5	SHIELD	SAT SHIELD

Connector No.	M502
Connector Name	ANTENNA BASE
Connector Type	GT17VSN-6DP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT +B
2	B	ANT MAIN
3	SHIELD	SHIELD

Connector No.	M503
Connector Name	WIRE TO WIRE
Connector Type	GT13S-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

ABNIA9083GB

Connector No.	M504
Connector Name	WIRE TO WIRE
Connector Type	GT13S-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

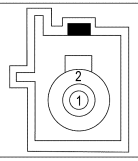
Connector No.	M505
Connector Name	GLASS ANTENNA (FM SUB)
Connector Type	P01FB-A
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT SUB

Connector No.	M509
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU (B)
Connector Color	GREEN

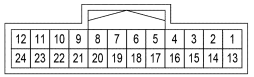
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

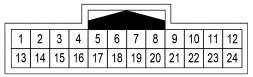
H.S.



Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	W	TO MAIN HARNESS
4	Y/R	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	Y	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	W	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	R/G	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	SHIELD	TO MAIN HARNESS
16	P	TO MAIN HARNESS
17	BG	TO MAIN HARNESS
18	–	TO MAIN HARNESS
19	V	TO MAIN HARNESS
20	W	TO MAIN HARNESS
21	SB	TO MAIN HARNESS
22	L	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	B	TO MAIN HARNESS

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO ROOM LAMP HARNESS
2	B	TO ROOM LAMP HARNESS
3	BG	TO ROOM LAMP HARNESS
4	P	TO ROOM LAMP HARNESS
5	SHIELD	TO ROOM LAMP HARNESS
6	B	TO ROOM LAMP HARNESS
7	W	TO ROOM LAMP HARNESS
8	B	TO ROOM LAMP HARNESS
9	B	TO ROOM LAMP HARNESS
10	W	TO ROOM LAMP HARNESS
11	R	TO ROOM LAMP HARNESS
12	G	TO ROOM LAMP HARNESS
13	–	TO ROOM LAMP HARNESS
14	–	TO ROOM LAMP HARNESS
15	L	TO ROOM LAMP HARNESS
16	SB	TO ROOM LAMP HARNESS
17	–	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	–	TO ROOM LAMP HARNESS
20	–	TO ROOM LAMP HARNESS
21	SB	TO ROOM LAMP HARNESS
22	L	TO ROOM LAMP HARNESS
23	BR	TO ROOM LAMP HARNESS
24	V	TO ROOM LAMP HARNESS

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	R101
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	V	TO ROOM LAMP HARNESS
2	R	TO ROOM LAMP HARNESS
3	G	TO ROOM LAMP HARNESS
4	P	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	L	TO ROOM LAMP HARNESS
7	R	TO ROOM LAMP HARNESS
8	B	TO ROOM LAMP HARNESS
9	B	TO ROOM LAMP HARNESS
10	W	TO ROOM LAMP HARNESS
11	R	TO ROOM LAMP HARNESS
12	G	TO ROOM LAMP HARNESS
13	–	TO ROOM LAMP HARNESS
14	–	TO ROOM LAMP HARNESS
15	L	TO ROOM LAMP HARNESS
16	SB	TO ROOM LAMP HARNESS
17	–	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	–	TO ROOM LAMP HARNESS
20	–	TO ROOM LAMP HARNESS
21	–	TO ROOM LAMP HARNESS
22	–	TO ROOM LAMP HARNESS
23	BR	TO ROOM LAMP HARNESS
24	L	TO ROOM LAMP HARNESS

Connector No.	R105
Connector Name	TELEMATICS SWITCH
Connector Type	TH08FW-NH
Connector Color	WHITE

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	V	ACC
2	G	LED A
3	P	ECALL SW
4	–	–
5	W	ILL
6	B	ILL CONT
7	R	GROUND
8	–	–

Connector No.	R109
Connector Name	MICROPHONE
Connector Type	TK04FW
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	R	MIC VCC
2	–	–
3	GR	MIC GND
4	L	MIC SIG

ABNIA9084GB

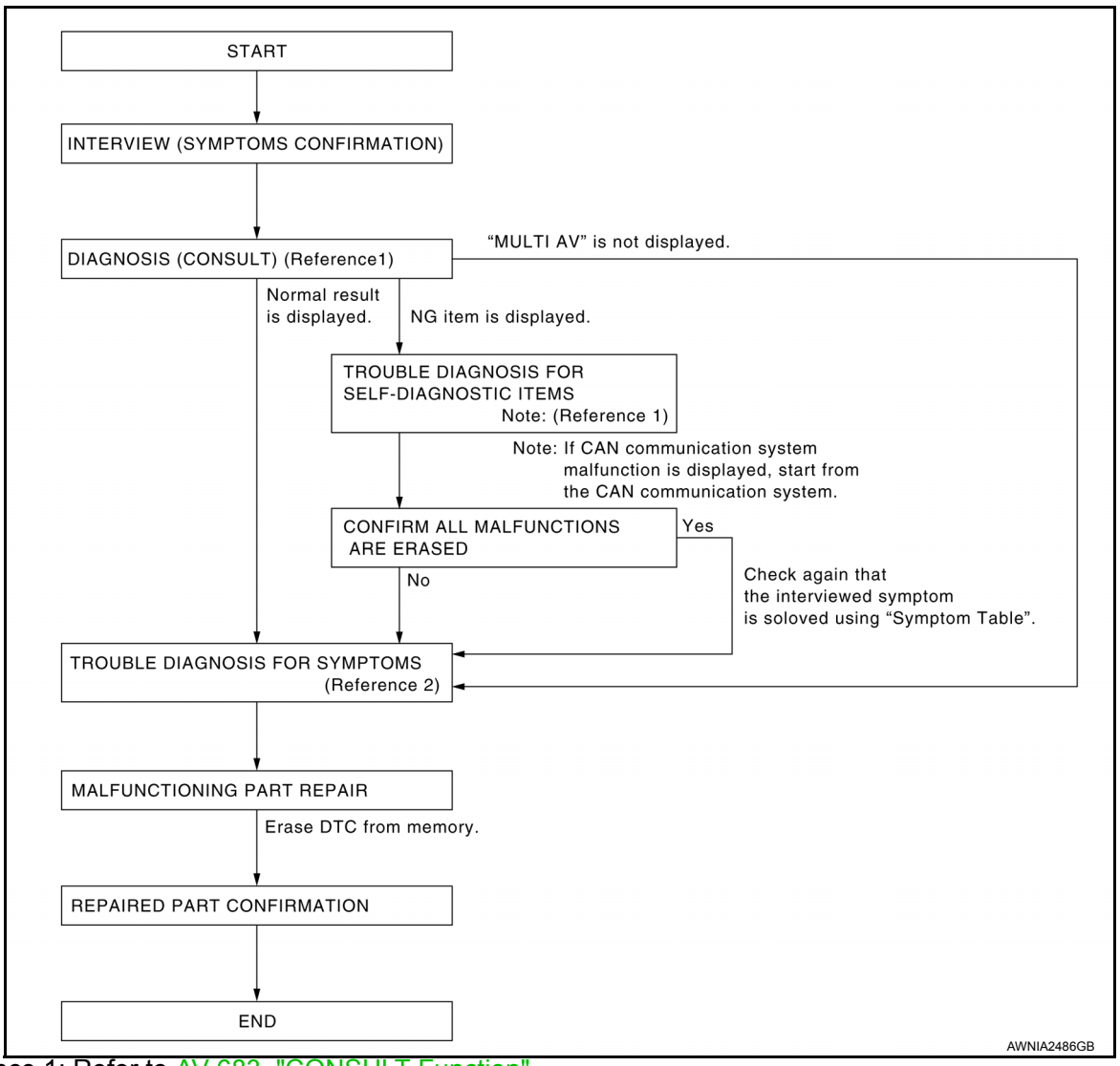
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow (Multi AV System)

INFOID:0000000012849826

OVERALL SEQUENCE



Reference 1: Refer to AV-683, "CONSULT Function".
Reference 2: Refer to AV-897, "Symptom Table".

DETAILED FLOW

1.CHECK SYMPTOM

Check the malfunction symptoms by performing the following items.
- Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred).
- Check the symptom.

>> GO TO 2

2.SELF-DIAGNOSIS (CONSULT)

1. Connect CONSULT and perform "SELF-DIAGNOSIS" for "MULTI AV".
   NOTE:
   Skip to step 4 of the diagnosis procedure if "MULTI AV" is not displayed.
2. Check if any DTC No. is displayed in the self-diagnosis results.

Is any DTC No. displayed?

YES >> GO TO 3
NO >> GO TO 4

3.CHECK SELF-DIAGNOSIS RESULTS (CONSULT)

1. Check the DTC No. indicated in the self-diagnosis results.
2. Perform the relevant diagnosis referring to the DTC No. list. Refer to AV-698, "DTC Index".

NOTE:
Start with the diagnosis for the CAN communication system if “CAN COMM CIRCUIT [U1000] or CONTROL UNIT (CAN) [U1010]” is displayed.

>> GO TO 5

4.PERFORM DIAGNOSIS BY SYMPTOM

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to AV-897, "Symptom Table".

>> GO TO 5

5.REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace the identified malfunctioning parts.

NOTE:
Erase the stored self-diagnosis results after repairing or replacing the relevant components if any DTC No. has been indicated in the self-diagnosis results.

>> GO TO 6

6.CHECK AFTER REPAIR

1. Perform self-diagnosis for “MULTI AV” with CONSULT after repairing or replacing the malfunctioning parts.
2. Check if any DTC No. is displayed in the self-diagnosis results.

Is any DTC No. displayed?

YES >> GO TO 3
NO >> GO TO 7

7.FINAL CHECK

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

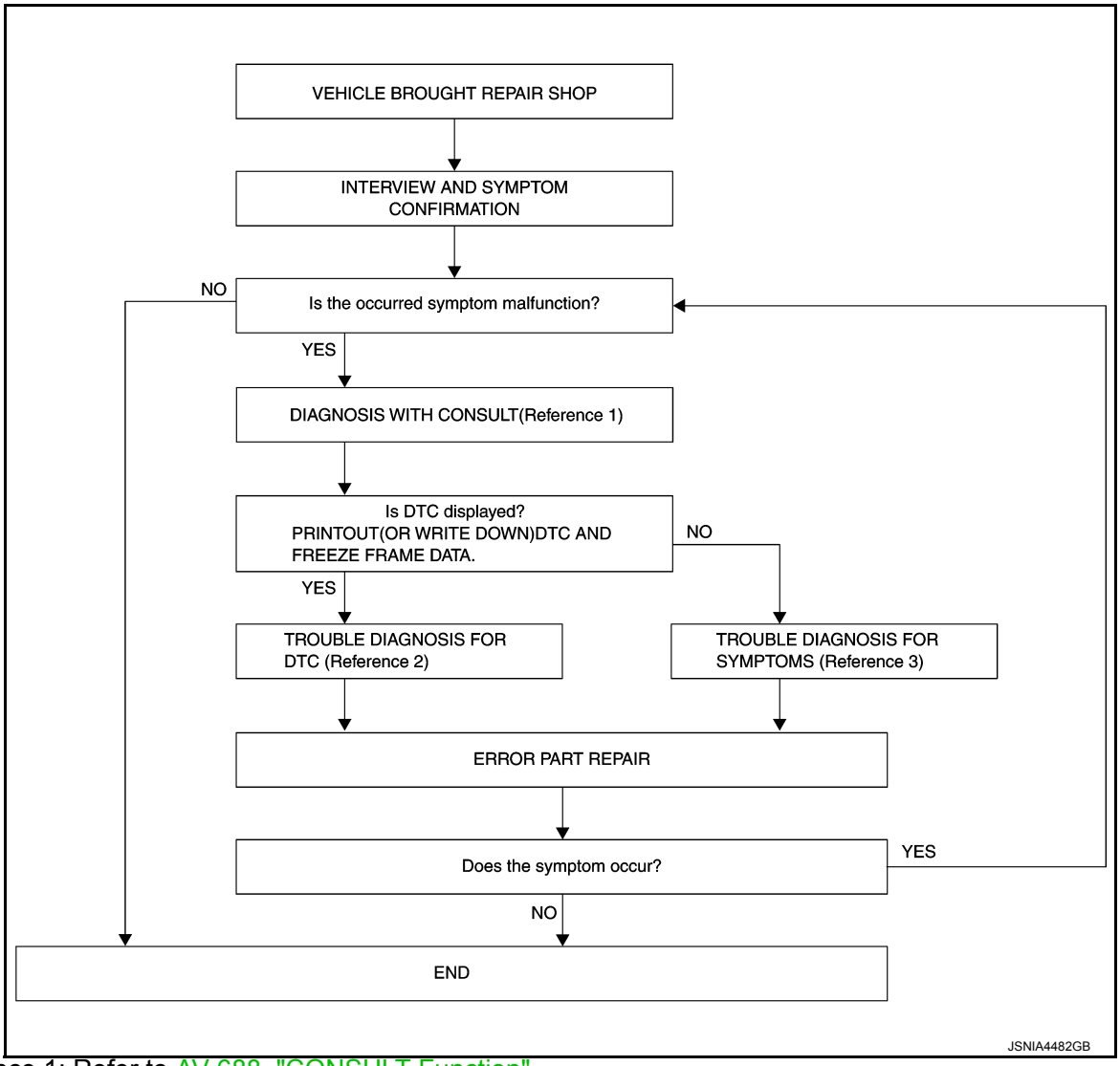
Are any symptoms present?

YES >> GO TO 4
NO >> Inspection End.

Work Flow (Camera Assistance Sonar)

INFOID:0000000012849827

OVERALL SEQUENCE



Reference 1: Refer to AV-688, "CONSULT Function".
Reference 2: Refer to AV-722, "DTC Index".
Reference 3: Refer to AV-897, "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

1. Connect CONSULT and perform a self-diagnosis for “SONAR”. Refer to AV-688, "CONSULT Function".
   NOTE:
   Skip to step 4 of the diagnosis procedure if “SONAR” is not displayed.
2. When DTC is detected, follow the instructions below:

- Record DTC and Freeze Frame Data.

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-722, "DTC Index".

>> GO TO 5.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to AV-897, "Symptom Table".

>> GO TO 5.

5. ERROR PART REPAIR

1. Repair or replace the identified malfunctioning parts.
2. Perform a self-diagnosis for “SONAR” with CONSULT.
   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

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description

INFOID:0000000012849828

BEFORE REPLACEMENT

When replacing AV control unit, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:

If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing AV control unit.

AFTER REPLACEMENT

CAUTION:

When replacing AV control unit, you must perform “After Replace ECU” with CONSULT.

- **Complete the procedure of “After Replace ECU” in order.**
- **If you set incorrect “After Replace ECU”, incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Work Procedure

INFOID:0000000012849829

1. SAVING VEHICLE SPECIFICATION

-CONSULT

Enter “Re/Programming, Configuration” and perform “Before Replace ECU” to save or print current vehicle specification.

NOTE:

If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing AV control unit.

>> GO TO 2.

2. REPLACE AV CONTROL UNIT

Replace AV control unit. Refer to AV-914, "Removal and Installation".

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

CONSULT

1. Enter "Re/Programming, Configuration".
2. If “Before Replace ECU” operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press “Confirm” to write vehicle specification. Refer to AV-773, "CONFIGURATION (AV CONTROL UNIT) : Work Procedure".
3. If “Before Replace ECU” operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to AV-773, "CONFIGURATION (AV CONTROL UNIT) : Work Procedure".

>> GO TO 4.

4. OPERATION CHECK

Check that the operation of the AV control unit is normal.

>> Work End.

CONFIGURATION (AV CONTROL UNIT)

CONFIGURATION (AV CONTROL UNIT) : Description

INFOID:0000000012849830

Vehicle specification needs to be written with CONSULT because it is not written after replacing AV control unit.
Configuration has three functions as follows:

Function	Description
"Before Replace ECU"	• Reads the vehicle configuration of current AV control unit. • Saves the read vehicle configuration.
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

CAUTION:
- **When replacing AV control unit, you must perform “Select Saved Data List” or "After Replace ECU" with CONSULT.**
- **Complete the procedure of “Select Saved Data List” or "After Replace ECU" in order.**
- **If you set incorrect “Select Saved Data List” or "After Replace ECU", incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**
- **Never perform “Select Saved Data List” or "After Replace ECU" except for new AV control unit.**

CONFIGURATION (AV CONTROL UNIT) : Work Procedure

INFOID:0000000012849831

1.WRITING MODE SELECTION

CONSULT
Select “Reprogramming, Configuration” of AV control unit.

When writing saved data>>GO TO 2.
When writing manually>>GO TO 3.

2.PERFORM “SAVED DATA LIST”

CONSULT
Automatically “Operation Log Selection” window will display if “Before Replace ECU” was performed. Select applicable file from the “Save Data List” and press “Confirm”.

>> Work End.

3.PERFORM “AFTER REPLACE ECU” OR “MANUAL CONFIGURATION”

CONSULT
1. Select “After Replace ECU” or “Manual Configuration”.
2. Identify the correct model and configuration list. Refer to AV-774, "CONFIGURATION (AV CONTROL UNIT) : Configuration List".
3. Confirm and/or change setting value for each item.
   CAUTION:
   Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.
4. Select “Next”.
   CAUTION:
   Make sure to select “Next”, confirm each setting value and press “OK” even if the indicated configuration of brand new AV control unit is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model can not be memorized.
5. When "Completed", select "End".

>> GO TO 4.

4.OPERATION CHECK

Confirm that each function controlled by AV control unit operates normally.

>> Work End.

CONFIGURATION (AV CONTROL UNIT) : Configuration List

INFOID:0000000012849832

CAUTION:
Thoroughly read and understand the vehicle specification. Incorrect settings may result in abnormal control of ECU.

SETTING ITEM		NOTE
Items	Setting Value	
SOUND SYSTEM	BASE ⇔ BOSE	BASE: Without BOSE audio BOSE: With BOSE audio
CAMERA SYSTEM	NONE/AVM ⇔ REAR CAMERA	NONE/AVM: With no camera system or with around view monitor REAR CAMERA: With rear view camera

⇔: Items which confirm vehicle specifications

ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT : Description

INFOID:0000000012849833

BEFORE REPLACEMENT

When replacing around view monitor control unit, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:
If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing around view monitor control unit.

AFTER REPLACEMENT

CAUTION:
When replacing around view monitor control unit, you must perform “After Replace ECU” with CONSULT.
- **Complete the procedure of “After Replace ECU” in order.**
- **If you set incorrect “After Replace ECU”, incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**

ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT : Work Procedure

INFOID:0000000012849834

1.SAVING VEHICLE SPECIFICATION

-CONSULT
Enter “Re/Programming, Configuration” and perform “Before Replace ECU” to save or print current vehicle specification.

NOTE:
If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing around view monitor control unit.

>> GO TO 2.

2.REPLACE AROUND VIEW MONITOR CONTROL UNIT

Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".

>> GO TO 3.

3.WRITING VEHICLE SPECIFICATION

CONSULT
1. Enter "Re/Programming, Configuration".

2. If “Before Replace ECU” operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press “Confirm” to write vehicle specification. Refer to AV-775, "CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Work Procedure".
3. If “Before Replace ECU” operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to AV-775, "CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Work Procedure".

>> GO TO 4.

4. OPERATION CHECK

Check that the operation of the around view monitor control unit and camera images (fixed guide lines and predictive course lines) are normal.

>> Work End.

CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT)

CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Description

INFOID:0000000012849835

Vehicle specification needs to be written with CONSULT because it is not written after replacing around view monitor control unit.
Configuration has three functions as follows:

Function	Description
"Before Replace ECU"	• Reads the vehicle configuration of current around view monitor control unit. • Saves the read vehicle configuration.
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

CAUTION:
- **When replacing around view monitor control unit, you must perform “Select Saved Data List” or "After Replace ECU" with CONSULT.**
- **Complete the procedure of “Select Saved Data List” or "After Replace ECU" in order.**
- **If you set incorrect “Select Saved Data List” or "After Replace ECU", incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**
- **Never perform “Select Saved Data List” or "After Replace ECU" except for new around view monitor control unit.**

CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Work Procedure

INFOID:0000000012849836

1. WRITING MODE SELECTION

CONSULT
Select “Reprogramming, Configuration” of around view monitor control unit.

When writing saved data>>GO TO 2.
When writing manually>>GO TO 3.

2. PERFORM “SAVED DATA LIST”

CONSULT
Automatically “Operation Log Selection” window will display if “Before Replace ECU” was performed. Select applicable file from the “Save Data List” and press “Confirm”.

>> Work End.

3. PERFORM “AFTER REPLACE ECU” OR “MANUAL CONFIGURATION”

CONSULT
1. Select “After Replace ECU” or “Manual Configuration”.
2. Identify the correct model and configuration list. Refer to AV-776, "CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Configuration List".
3. Confirm and/or change setting value for each item.
   CAUTION:
   Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.
4. Select “Next”.
   CAUTION:
   Make sure to select “Next”, confirm each setting value and press “OK” even if the indicated configuration of brand new around view monitor control unit is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model can not be memorized.
5. When "Completed", select "End".

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by around view monitor control unit operates normally.

>> Work End.

CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Configuration List

INFOID:0000000012849837

CAUTION:
Thoroughly read and understand the vehicle specification. Incorrect settings may result in abnormal control of ECU.

MANUAL SETTING ITEM	
Items	Setting value
BCI FUNCTION	WITH ⇔ WITHOUT

⇔: Items which confirm vehicle specifications

ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT : Description

INFOID:0000000012849838

BEFORE REPLACEMENT

When replacing sonar control unit, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:
If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing sonar control unit.

AFTER REPLACEMENT

CAUTION:
When replacing sonar control unit, you must perform “After Replace ECU” with CONSULT.
- **Complete the procedure of “After Replace ECU” in order.**
- **If you set incorrect “After Replace ECU”, incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**

ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT : Work Procedure

INFOID:0000000012849839

1. SAVING VEHICLE SPECIFICATION

-CONSULT

Enter “Re/Programming, Configuration” and perform “Before Replace ECU” to save or print current vehicle specification.

NOTE:

If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing sonar control unit.

>> GO TO 2.

2.REPLACE SONAR CONTROL UNIT

Replace sonar control unit. Refer to AV-941, "Removal and Installation".

>> GO TO 3.

3.WRITING VEHICLE SPECIFICATION

CONSULT

1. Enter "Re/Programming, Configuration".
2. If “Before Replace ECU” operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press “Confirm” to write vehicle specification. Refer to AV-777, "CONFIGURATION (SONAR CONTROL UNIT) : Work Procedure".
3. If “Before Replace ECU” operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to AV-777, "CONFIGURATION (SONAR CONTROL UNIT) : Work Procedure".

>> GO TO 4.

4.OPERATION CHECK

Check that the operation of the sonar control unit is normal.

>> Work End.

CONFIGURATION (SONAR CONTROL UNIT)

CONFIGURATION (SONAR CONTROL UNIT) : Description

INFOID:0000000012849840

Vehicle specification needs to be written with CONSULT because it is not written after replacing sonar control unit.

Configuration has three functions as follows:

Function	Description
"Before Replace ECU"	• Reads the vehicle configuration of current sonar control unit. • Saves the read vehicle configuration.
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

CAUTION:

- **When replacing sonar control unit, you must perform “Select Saved Data List” or "After Replace ECU" with CONSULT.**
- **Complete the procedure of “Select Saved Data List” or "After Replace ECU" in order.**
- **If you set incorrect “Select Saved Data List” or "After Replace ECU", incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**
- **Never perform “Select Saved Data List” or "After Replace ECU" except for new sonar control unit.**

CONFIGURATION (SONAR CONTROL UNIT) : Work Procedure

INFOID:0000000012849841

1.WRITING MODE SELECTION

CONSULT

Select “Reprogramming, Configuration” of sonar control unit.

When writing saved data>>GO TO 2.
When writing manually>>GO TO 3.

2.PERFORM “SAVED DATA LIST”

CONSULT
Automatically “Operation Log Selection” window will display if “Before Replace ECU” was performed. Select applicable file from the “Save Data List” and press “Confirm”.

>> Work End.

3.PERFORM “AFTER REPLACE ECU” OR “MANUAL CONFIGURATION”

CONSULT
1. Select “After Replace ECU” or “Manual Configuration”.
2. Identify the correct model and configuration list. Refer to AV-778, "CONFIGURATION (SONAR CONTROL UNIT) : Configuration List".
3. Confirm and/or change setting value for each item.
   CAUTION:
   Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.
4. Select “Next”.
   CAUTION:
   Make sure to select “Next”, confirm each setting value and press “OK” even if the indicated configuration of brand new sonar control unit is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model can not be memorized.
5. When "Completed", select "End".

>> GO TO 4.

4.OPERATION CHECK

Confirm that each function controlled by sonar control unit operates normally.

>> Work End.

CONFIGURATION (SONAR CONTROL UNIT) : Configuration List

INFOID:0000000012849842

CAUTION:
Thoroughly read and understand the vehicle specification. Incorrect settings may result in abnormal control of ECU.

MANUAL SETTING ITEM	
Items	Setting value
BCI FUNCTION	WITH ⇔ WITHOUT

⇔: Items which confirm vehicle specifications

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Description

INFOID:0000000012849843

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

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Work Procedure

INFOID:0000000012849844

1.DRIVING

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

>> END

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description

INFOID:0000000012849845

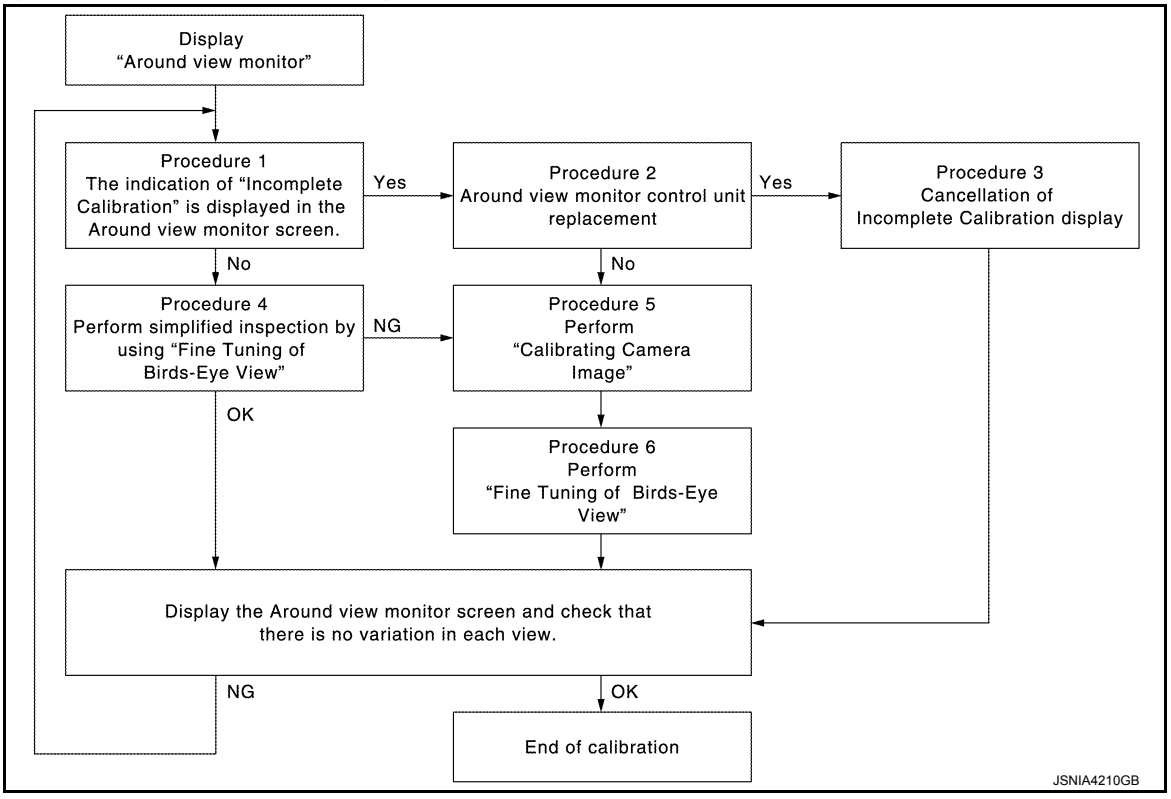
- Calibration must be performed after removing/replacing the cameras, removing parts (e.g. front grille, door mirror, and others) mounted on the cameras, or replacing the Around view monitor control unit.
- The use of CONSULT is required to perform calibration or writing of calibration results to the Around view monitor control unit.
- Align the white lines on the road near the vehicle at the boundary of each camera image by this camera calibration. The white lines far from the vehicle may not be aligned at the boundary of each camera image. The farther the line, the greater the difference is.

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Work Procedure

INFOID:0000000012849846

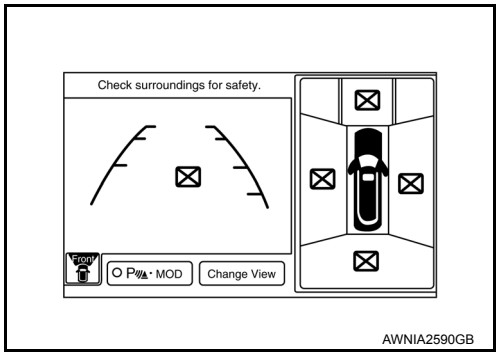
CALIBRATION FLOWCHART

Following the flowchart shown in the figure, perform the calibration.



NOTE:

View in the incomplete calibration state is indicated by “⊠” on the around view monitor.



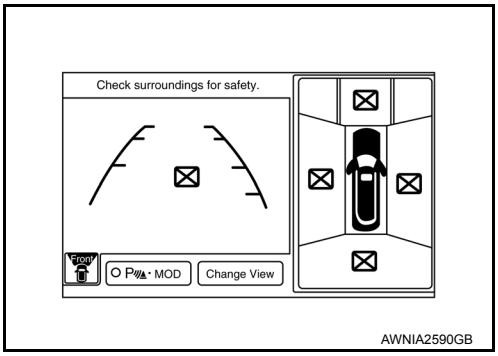
CALIBRATION PROCEDURE

1. AROUND VIEW MONITOR SCREEN CONFIRMATION

Check that there is no indication of “Incomplete calibration”.

Is the “Incomplete calibration” display visible?

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



2. CHECK THAT AROUND VIEW MONITOR CONTROL UNIT IS REPLACED

Check that the around view monitor control unit is replaced.

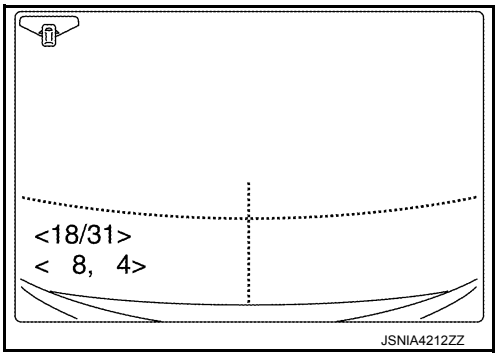
Is the around view monitor control unit replaced?

YES >> GO TO 3.
NO >> GO TO 5.

3. CANCEL THE INDICATION OF INCOMPLETE CALIBRATION (PERFORM THIS ONLY AFTER REPLACING AROUND VIEW MONITOR CONTROL UNIT.)

CONSULT work support

1. On the CONSULT screen, touch “CALIBRATING CAMERA IMAGE (FRONT CAMERA)”, “CALIBRATING CAMERA IMAGE (PASS-SIDE CAMERA)”, “CALIBRATING CAMERA IMAGE (DR-SIDE CAMERA)”, or “CALIBRATING CAMERA IMAGE (REAR CAMERA)” to accept the selection.
   NOTE:
   To cancel the indication of Incomplete calibration, select items based on the target camera.
2. On the adjustment screen of each camera, touch “APPLY” button. After this, touch “OK” button.
   CAUTION:
   - **Never perform operations other than those mentioned above.**
   - **Never perform “Initialize Camera Image Calibration”.**
3. Display the around view monitor screen to check that there is no errors, such as deviations among the camera images.



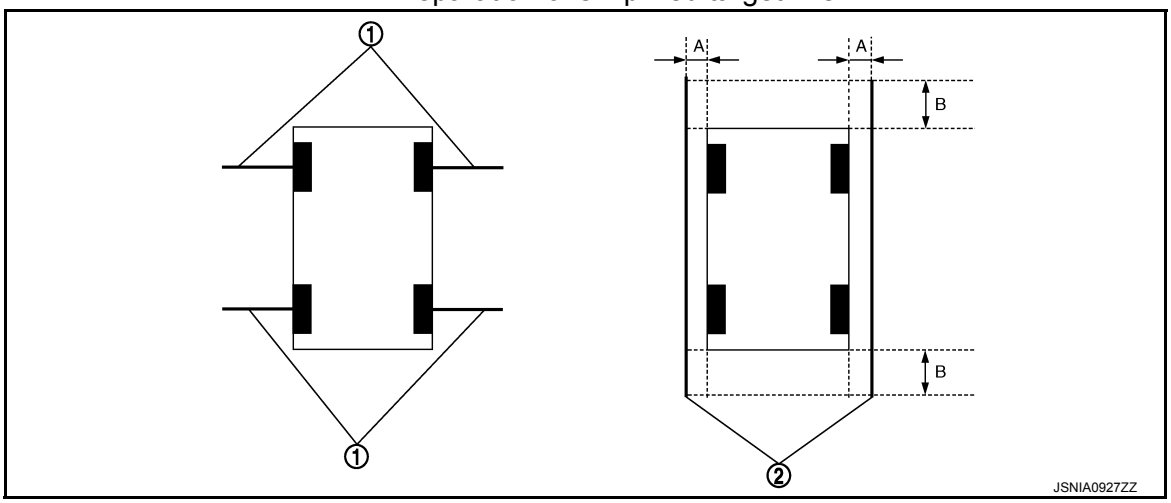
Is there a malfunction?

YES >> Calibration end
NO >> GO TO 1.

4. PERFORM SIMPLIFIED CONFIRMATION/ADJUSTMENT BY “FINE TUNING OF BIRDS-EYE VIEW”

1. Put target line 1 on the ground beside each axle using packing tape, etc.
2. Put target lines 2 equal to the vehicle total length + approximately 1.0 m (39.3 in) from the vehicle side (right and left) at approximately 30 cm (11.8 in) away from the vehicle (make the line as parallel with the vehicle as possible)

Preparation of simplified target line



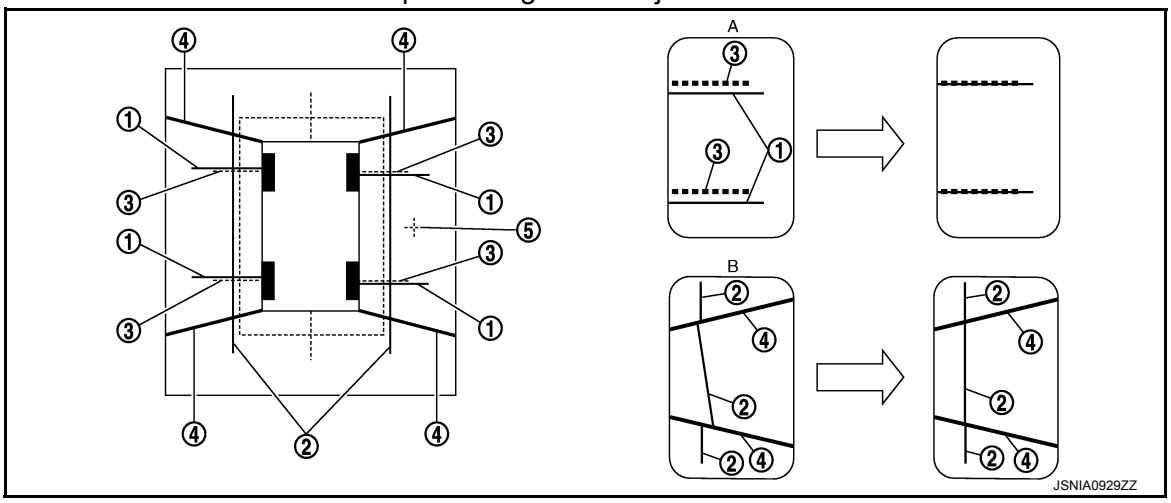
1. Target lines 1
2. Target lines 2
A. Approx. 30 cm (11.8 in)
B. Approx. 1.0 m (39.3 in)

3. CONSULT work support
   Touch “FINE TUNING OF BIRDS-EYE VIEW” on the CONSULT screen.
4. On the CONSULT screen, touch “SELECT” button to select right or left camera and perform camera calibration as instructed below:

- If the marker on the screen deviates from Target line 1, touch “AXIS X” button and “AXIS Y” button to adjust so that the marker is placed on the Target line 1.
- If Target line 2 is misaligned among the cameras, adjust each camera image to bring Target line 2 into a straight line.

CAUTION:
Never adjust the front camera and rear view camera. Only adjust the right and left cameras.

Simplified target line adjustment method



1. Target lines 1
2. Target lines 2
3. Marker for target line 1
4. Boundary between cameras
5. Crosshairs cursor (mark indicated the selected camera)
A. Adjustment method for target lines 1 (right)
B. Adjustment method for target lines 2 (right)

5. Adjust right and left cameras. Touch "APPLY" on the CONSULT screen to display adjustment results.
6. After adjusting right and left cameras, check that the marker is properly placed on the screen and there is no deviation in Target line 1.
   NOTE:
   • It can be initialized to the NISSAN factory default condition with “Initialize Camera Image Calibration”.
   • The adjustment value is cancelled on this mode by performing “Initialize Camera Image Calibration”.

Is the difference corrected?

YES >> On the CONSULT screen, touch “OK” button to complete writing to the around view monitor control unit.

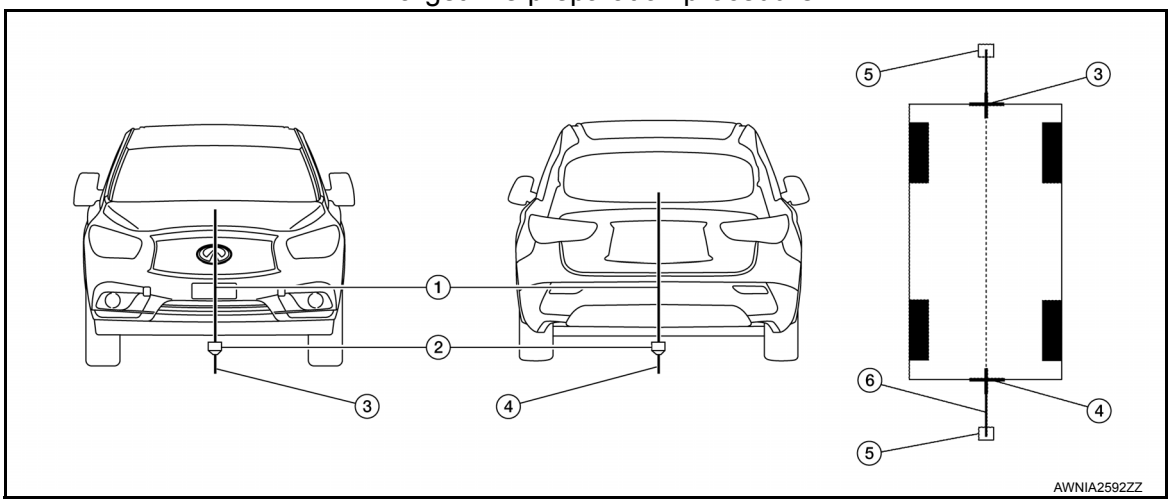
NO >> GO TO 5.

5. PERFORM “CALIBRATING CAMERA IMAGE”

Preparation of target line

1. Hang a string with a weight as shown in the figure. Put the points FM0, RM0 (mark) on the ground at the center of the vehicle front end and rear end with white packing tape or a pen.
2. Route the vinyl string under the vehicle, and then pull and fix it on the point approximately 1.0 m (39.9 in) to the front and rear of the vehicle through the points FM0 and RM0 using packing tape.

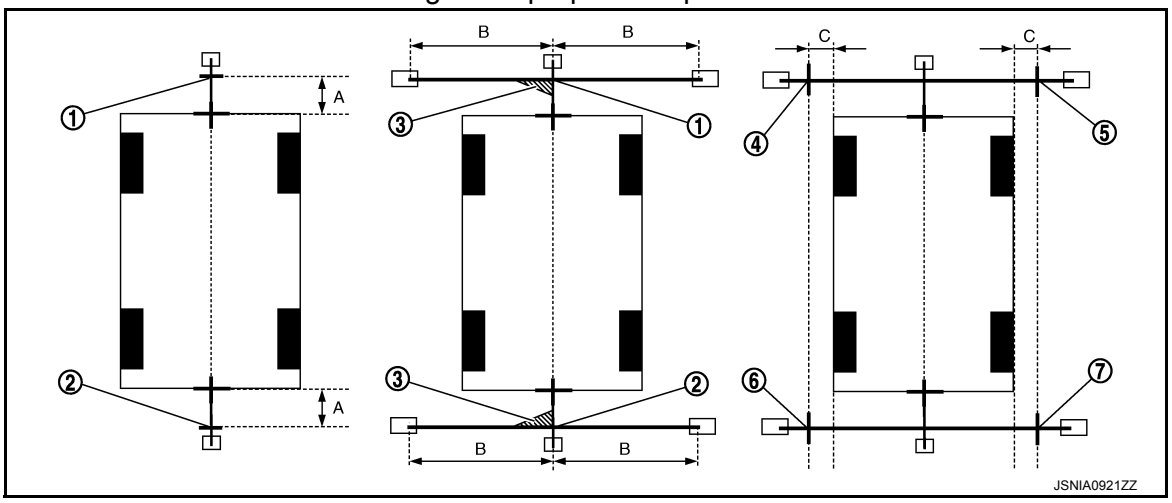
Target line preparation procedure 1



1. Thread
2. Weight
3. Point FM0 (mark)
4. Point RM0 (mark)
5. Packing tape (to fix the vinyl string)
6. Vinyl string

3. Put the points FM and RM (mark) 75 cm (29.5 in) from the points FM0 and RM0 individually.
4. Route the vinyl string through the points FM and RM using a triangle scale, and then fix it at approximately 1.5 m (59 in) on both sides with packing tape.
5. Put the points FL, FR, RL, and RR (mark) to both right and left [vehicle width / 2 + 30 cm (11.8 in)] from the points FM and RM.

Target line preparation procedure 2



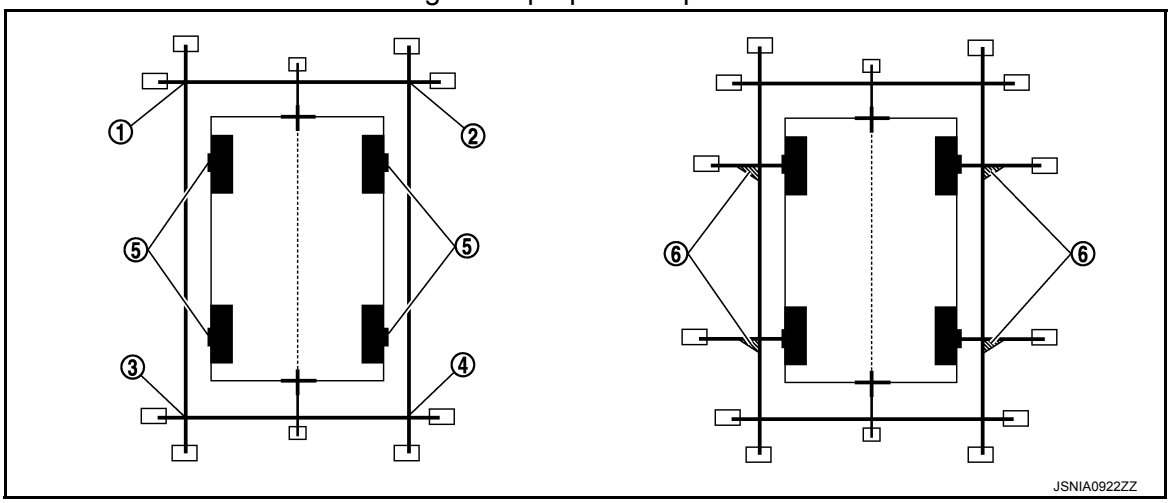
1. Point FM
2. Point RM
3. Triangle scale
4. Point FL (mark)
5. Point FR (mark)
6. Point RL (mark)

7. Point RR (mark)

A. 75 cm (29.5 in) B. Approx. 1.5 m (59 in) C. 30 cm (11.8 in) [Vehicle width/ 2 + 30 cm (11.8 in) from the points FM and RM]

6. Draw the lines of the points FL – RL and FR – RR with vinyl string, and fix it with packing tape.
7. Put a mark on the center of each axle, draw vertical lines to the lines of the points FL – RL and FR – RR from the marks on the center of the axle using a triangle scale, and then fix the lines using packing tape.

Target line preparation procedure 3

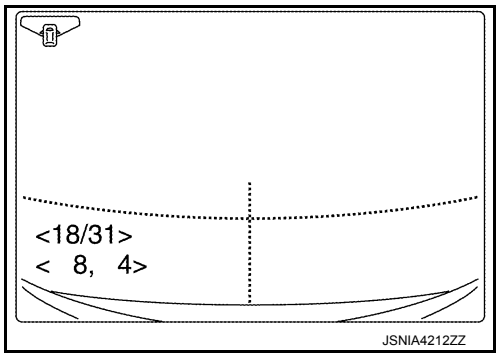


1. Point FL 2. Point FR 3. Point RL
4. Point RR 5. Center position of axle 6. Triangle scale

Perform “Calibrating Camera Image”

CONSULT work support

1. On the CONSULT screen, touch “CALIBRATING CAMERA IMAGE (FRONT CAMERA)”, “CALIBRATING CAMERA IMAGE (PASS-SIDE CAMERA)”, “CALIBRATING CAMERA IMAGE (DR-SIDE CAMERA)”, or “CALIBRATING CAMERA IMAGE (REAR CAMERA)” to accept the selection.
NOTE:
To cancel the indication of Incomplete calibration, select items based on the target camera.
2. On the adjustment screen of each camera, adjust the parameter by touching the “AXIS X” button, “AXIS Y” button, and “ROTATE” button to place the calibration marker shown on the camera screen on the target line drawn on the ground.



Adjustment range	
Rotation direction (Center dial)	: 31 patterns (16 on the center)
Upper/lower direction (upper/lower switch)	: –22 – 22
Left/right direction (left/right switch)	: –22 – 22

3. Touch “APPLY” button on the CONSULT screen. “PRCSNG” is displayed and adjustment results are shown on the camera screen.
CAUTION:
Check that “PRCSNG” is displayed. Do never perform other operations while “PRCSNG” is displayed.
4. Touch “OK” button on the CONSULT screen. “PRCSNG” is displayed and adjustment results are written to the around view monitor control unit.
CAUTION:
Check that “PRCSNG” is displayed. Do never perform other operations while “PRCSNG” is displayed.

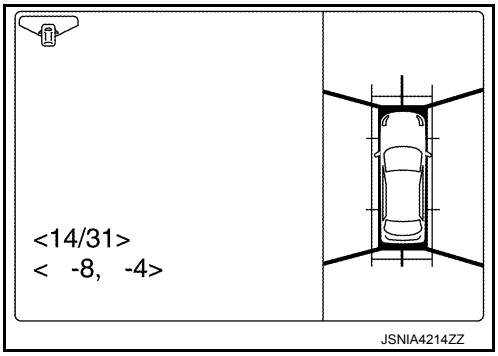
>> GO TO 6.

6. PERFORM “FINE TUNING OF BIRDS-EYE VIEW”

This mode is designed to align the boundary between each camera image that could not be aligned in the “Calibrating Camera Image” mode.

CONSULT work support

1. Select “FINE TUNING OF BIRDS-EYE VIEW” by touching CONSULT screen.
2. On the adjustment screen of each camera, adjust the parameter by touching the “AXIS X” button, “AXIS Y” button”, and “ROTATE” button to place the calibration marker shown on the camera screen on the target line drawn on the ground.
   NOTE:
   Touch “SELECT” button on the CONSULT screen to select the target camera.
3. Touch “APPLY” button on the CONSULT screen. “PRCSNG” is displayed and adjustment results are shown on the camera screen.
   CAUTION:
   Check that “PRCSNG” is displayed. Do never perform other operations while “PRCSNG” is displayed.



4. Touch “OK” button on the CONSULT screen. “PRCSNG” is displayed and adjustment results are written to the around view monitor control unit.
   CAUTION:
   - **Check that “PRCSNG” is displayed. Never perform other operations while “PRCSNG” is displayed.**
   - **After pressing the “OK” button, never press buttons other than the “BACK” button.**

   NOTE:
   - It can be initialized to the NISSAN factory default condition with “Initialize Camera Image Calibration”.
   - The adjustment value is cancelled in this mode by performing “Initialize Camera Image Calibration”.

>> Calibration end

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

AV CONTROL UNIT

AV CONTROL UNIT : DTC Logic

INFOID:0000000012849847

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1000]	AV control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.	CAN communication system.

AV CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012849848

1. PERFORM SELF DIAGNOSTIC RESULT

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

Is CAN COMM CIRCUIT displayed?

YES >> Refer to LAN-28, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-50, "Intermittent Incident".

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : DTC Logic

INFOID:0000000012849849

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1000]	Sonar control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.	CAN communication system.

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : Diagnosis Procedure

INFOID:0000000012849850

1. PERFORM SELF DIAGNOSTIC RESULT

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Perform Self Diagnostic Result for SONAR.

Is CAN COMM CIRCUIT displayed?

YES >> Refer to LAN-28, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-50, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

AV CONTROL UNIT

AV CONTROL UNIT : DTC Logic

INFOID:0000000012849851

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : DTC Logic

INFOID:0000000012849852

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the sonar control unit if the malfunction occurs constantly. Refer to AV-941, "Removal and Installation".

U1200 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849853

CONSULT Display	DTC Detection Condition	Possible Cause
CONT UNIT [U1200]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U1201 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849854

CONSULT Display	DTC Detection Condition	Possible Cause
GYRO NO CONN [U1201]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U1202 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849855

CONSULT Display	DTC Detection Condition	Possible Cause
G-SENSOR NO CONN [U1202]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U1204 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849856

CONSULT Display	DTC Detection Condition	Possible Cause
GPS CONN [U1204]	GPS malfunction is detected.	An intermittent error caused by strong radio interference, GPS reception error, etc. may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849857

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1204 detected?

YES >> Replace AV control unit. Refer to AV-914, "Removal and Installation".
NO >> Refer to GI-50, "Intermittent Incident".

U1205 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849858

CONSULT Display	DTC Detection Condition	Possible Cause
GPS ROM [U1205]	GPS malfunction is detected.	An intermittent error caused by strong radio interference, GPS reception error, etc. may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849859

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1205 detected?

YES >> Replace AV control unit. Refer to AV-914, "Removal and Installation".
NO >> Refer to GI-50, "Intermittent Incident".

U1206 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849860

CONSULT Display	DTC Detection Condition	Possible Cause
GPS RAM [U1206]	GPS malfunction is detected.	An intermittent error caused by strong radio interference, GPS reception error, etc. may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849861

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1206 detected?

YES >> Replace AV control unit. Refer to AV-914, "Removal and Installation".
NO >> Refer to GI-50, "Intermittent Incident".

U1207 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849862

CONSULT Display	DTC Detection Condition	Possible Cause
GPS RTC [U1207]	GPS malfunction is detected.	An intermittent error caused by strong radio interference, GPS reception error, etc. may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849863

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1207 detected?

YES >> Replace AV control unit. Refer to AV-914, "Removal and Installation".
NO >> Refer to GI-50, "Intermittent Incident".

U1216 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849864

CONSULT Display	DTC Detection Condition	Possible Cause
CAN CONT [U1216]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U1217 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849865

CONSULT Display	DTC Detection Condition	Possible Cause
BLUETOOTH MODULE [U1217]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U1218 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849866

CONSULT Display	DTC Detection Condition	Possible Cause
HDD CONN [U1218]	AV control unit malfunction is detected.	An intermittent error causing HDD malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U1219 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849867

CONSULT Display	DTC Detection Condition	Possible Cause
HDD READ [U1219]	AV control unit malfunction is detected.	An intermittent error causing HDD malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U121A AV CONTROL UNIT

DTC Logic

INFOID:0000000012849868

CONSULT Display	DTC Detection Condition	Possible Cause
HDD WRITE [U121A]	AV control unit malfunction is detected.	An intermittent error causing HDD malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U121B AV CONTROL UNIT

DTC Logic

INFOID:0000000012849869

CONSULT Display	DTC Detection Condition	Possible Cause
HDD COMM [U121B]	AV control unit malfunction is detected.	An intermittent error causing HDD malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U121C AV CONTROL UNIT

DTC Logic

INFOID:0000000012849870

CONSULT Display	DTC Detection Condition	Possible Cause
HDD ACCESS [U121C]	AV control unit malfunction is detected.	An intermittent error causing HDD malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U121D AV CONTROL UNIT

DTC Logic

INFOID:0000000012849871

CONSULT Display	DTC Detection Condition	Possible Cause
DSP CONN [U121D]	AV control unit malfunction is detected.	An intermittent error causing disc player malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849872

1.CHECK CD PLAYBACK

Check the CD playback operation of the AV control unit. Refer to Owner's Manual for audio system operating instructions.

Is the CD playback function of the AV control unit operating normally?

YES >> Refer to GI-50, "Intermittent Incident".
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

U121E AV CONTROL UNIT

DTC Logic

INFOID:0000000012849873

CONSULT Display	DTC Detection Condition	Possible Cause
DSP COMM [U121E]	AV control unit malfunction is detected.	An intermittent error causing disc player malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849874

1.CHECK CD PLAYBACK

Check the CD playback operation of the AV control unit. Refer to Owner's Manual for audio system operating instructions.

Is the CD playback function of the AV control unit operating normally?

YES >> Refer to GI-50, "Intermittent Incident".
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

U1225 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849875

CONSULT Display	DTC Detection Condition	Possible Cause
USB CONTROLLER [U1225]	USB connection malfunction is detected.	Check that connection to USB connector is normal.

U1227 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849876

CONSULT Display	DTC Detection Condition	Possible Cause
DVD COMM [U1227]	AV control unit malfunction is detected.	An intermittent error causing disc player malfunction may be detected. Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012849877

1.CHECK DVD PLAYBACK

Check the DVD playback operation of the AV control unit. Refer to Owner's Manual for audio system operating instructions.

Is the DVD playback function of the AV control unit operating normally?

YES >> Refer to GI-50, "Intermittent Incident".
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

U1228 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849878

CONSULT Display	DTC Detection Condition	Possible Cause
SUB CPU CONN [U1228]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U1229 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849879

CONSULT Display	DTC Detection Condition	Possible Cause
iPod CERTIFICATION [U1229]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U122A AV CONTROL UNIT

DTC Logic

INFOID:0000000012849880

CONSULT Display	DTC Detection Condition	Possible Cause
CONFIG UNFINISH [U122A]	Configuration data is incomplete.	Write configuration data. Refer to AV-773, "CONFIGURATION (AV CONTROL UNIT) : Work Procedure".

Diagnosis Procedure

INFOID:0000000012849881

1.PERFORM CONFIGURATION

When U122A is detected, configuration data must be written.

>> Write configuration data with CONSULT. Refer to AV-773, "CONFIGURATION (AV CONTROL UNIT) : Work Procedure".

U122E AV CONTROL UNIT

DTC Logic

INFOID:0000000012849882

CONSULT Display	DTC Detection Condition	Possible Cause
Built-in AUDIO CONN [U122E]	AV control unit malfunction is detected.	Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U1231 BOSE AMP.

DTC Logic

INFOID:0000000012849883

CONSULT Display	DTC Detection Condition	Possible Cause
AMP TEMP [U1231]	BOSE amp. malfunction is detected.	Replace BOSE amp. if malfunction occurs constantly. Refer to AV-920, "Removal and Installation".

U1232 STEERING ANGLE SENSOR

DTC Logic

INFOID:0000000012849884

CONSULT Display	DTC Detection Condition	Possible Cause
ST ANGLE SEN CALIB [U1232]	Predictive course line center position adjustment of steering angle sensor is incomplete.	Adjust predictive course line center position of steering angle sensor.

Diagnosis Procedure

INFOID:0000000012849885

1.ADJUST PREDICTIVE COURSE LINE CENTER POSITION OF STEERING ANGLE SENSOR

When U1232 is detected, the predictive course line center position of the steering angle sensor needs to be adjusted.

>> Adjust the predictive course line center position of steering angle sensor. Refer to AV-778, "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Work Procedure".

U1243 DISPLAY UNIT

DTC Logic

INFOID:0000000012849886

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT DISP CONN [U1243]	When any of the following is detected. • display unit power supply or ground circuit malfunction. • serial communication circuit malfunction between front display unit and AV control unit.	• Display unit power supply and ground circuits. • Serial communication circuits between front display unit and AV control unit.

Diagnosis Procedure

INFOID:0000000012849887

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check display unit power supply and ground circuits. Refer to AV-846, "DISPLAY UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect display unit connector M92 and AV control unit connector M163.
3. Check continuity between display unit connector M92 terminals 9, 10 and AV control unit connector M163 terminals 77, 61.

Display unit		AV control unit		Continuity
Connector	Terminals	Connector	Terminals	
M92	9	M163	77	Yes
	10		61	

4. Check continuity between display unit connector M92 terminals 9, 10 and ground.

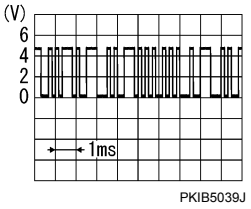
Display unit		Ground	Continuity
Connector	Terminals		
M92	9	—	No
	10		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK COMMUNICATION SIGNAL (CONT→DISP)

1. Connect display unit connector M92 and AV control unit connector M163.
2. Turn ignition switch ON.
3. Check signal between display unit connector M92 terminal 10 and ground.

Display unit		Ground	Condition	Reference value
(+)		(−)		
Connector	Terminal			
M92	10	—	When adjusting display brightness.	

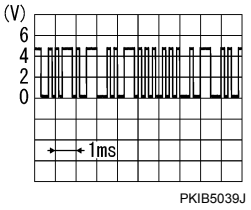
PKIB5039J

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

4. CHECK COMMUNICATION SIGNAL (DISP→CONT)

Check signal between display unit connector M92 terminal 9 and ground.

Display unit		Ground	Condition	Reference value
(+)		(−)		
Connector	Terminal			
M92	9	—	When adjusting display brightness.	

PKIB5039J

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace display unit. Refer to AV-919, "Removal and Installation".

U1244 GPS ANTENNA

DTC Logic

INFOID:0000000012849888

CONSULT Display	DTC Detection Condition	Possible Cause
GPS ANTENNA CONN [U1244]	GPS antenna connection malfunction is detected.	GPS antenna disconnection.

Diagnosis Procedure

INFOID:0000000012849889

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.GPS ANTENNA INSPECTION

Visually inspect the GPS antenna and antenna feeder. Refer to AV-947, "Removal and Installation".

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV CONTROL UNIT VOLTAGE

1. Disconnect AV control unit connector M25.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector M25 and ground.

AV control unit		Ground	Voltage
Connector	Terminal		
M25	188	—	5.0 V

Is inspection result normal?

YES >> Inspection End.
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

U1258 SATELLITE RADIO ANTENNA

DTC Logic

INFOID:0000000012849890

CONSULT Display	DTC Detection Condition	Possible Cause
XM ANTENNA CONN [U1258]	Satellite radio antenna connection malfunction is detected.	Satellite radio antenna disconnection.

Diagnosis Procedure

INFOID:0000000012849891

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.SATELLITE RADIO ANTENNA INSPECTION

Visually inspect the satellite radio antenna and antenna feeder. Refer to AV-945, "Location of Antennas".

Is inspection result normal?

YES >> GO TO 2.
NO >> Replace malfunctioning parts.

2.CHECK AV CONTROL UNIT VOLTAGE

1. Disconnect AV control unit connector M133.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector M133 and ground.

AV control unit		Ground	Voltage
Connector	Terminal		
M133	169	—	5.0 V

Is inspection result normal?

YES >> Inspection End.
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

U125A HEADREST DISPLAY UNIT

DTC Logic

INFOID:0000000012849892

CONSULT Display	DTC Detection Condition	Possible Cause
3RD DISP CONN [U125A]	When any of the following is detected. • headrest display unit power supply or ground circuit malfunction. • AV communication circuit malfunction between headrest display units.	• Headrest display unit power supply and ground circuits. • AV communication circuits between headrest display units.

Diagnosis Procedure

INFOID:0000000012849893

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK HEADREST DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check headrest display unit power supply and ground circuits. Refer to AV-850, "HEADREST DISPLAY UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV COMMUNICATION CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect headrest display unit connectors.
3. Check continuity between headrest display unit (driver seat) connector B202 and headrest display unit (passenger seat) connector B302.

Headrest display unit (driver seat)		Headrest display unit (passenger seat)		Continuity
Connector	Terminals	Connector	Terminals	
B202	26	B302	10	Yes
	27		11	

4. Check continuity between headrest display unit (driver seat) connector B202 and ground.

Headrest display unit (driver seat)		Ground	Continuity
Connector	Terminals		
B202	26	—	No
	27		

Is the inspection result normal?

YES >> Replace headrest display unit (passenger seat). Refer to AV-938, "Removal and Installation".
NO >> Repair or replace harness or connectors.

U1263 USB

DTC Logic

INFOID:0000000012849894

CONSULT Display	DTC Detection Condition	Possible Cause
USB OVERCURRENT [U126]	Overcurrent in USB connector is detected.	Check USB harness between the AV control unit and USB connector.

Diagnosis Procedure

INFOID:0000000012849895

1.CHECK USB INTERFACE HARNESS

Visually inspect USB interface harness.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace USB interface harness. Refer to AV-929, "Removal and Installation".

2.CHECK USB INTERFACE HARNESS CONTINUITY

Check USB interface harness continuity. Refer to AV-888, "Diagnosis Procedure".

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-914, "Removal and Installation".
NO >> Replace USB interface harness. Refer to AV-929, "Removal and Installation".

U1264 ANTENNA AMP.

DTC Logic

INFOID:0000000012849896

CONSULT Display	DTC Detection Condition	Possible Cause
ANTENNA AMP TERMINAL [U1264]	Antenna amp. ON signal circuit open or short circuited.	Antenna amp. ON signal circuit between AV control unit and antenna amp.

Diagnosis Procedure

INFOID:0000000012849897

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND ANTENNA BASE

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M143 and antenna base connector M502.
3. Check continuity between AV control unit connector M143 and antenna base connector M502.

AV control unit		Antenna base		Continuity
Connector	Terminal	Connector	Terminal	
M143	171	M502	1	Yes

4. Check continuity between AV control unit connector M143 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M143	171	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector M143.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector M143 and ground.

AV control unit		Ground	Voltage (Approx.)
(+)		(–)	
Connector	Terminal		
M143	171	—	Battery voltage

Is the inspection result normal?

YES >> Replace antenna base. Refer to AV-945, "Location of Antennas".
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

U1300 AV COMM CIRCUIT

Description

INFOID:0000000012849898

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

SELF DIAGNOSTIC RESULT DISPLAY ITEM

CONSULT Display	DTC Detection Condition	Possible Cause
• AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240]	When any of the following is detected: • Multifunction switch power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and multifunction switch.	• Multifunction switch power supply and ground circuits. Refer to AV-848, "MULTIFUNCTION SWITCH : Diagnosis Procedure". • AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT [U1300] • AMP CONN [U124E]	When any of the following is detected: • BOSE speaker amp. power supply or ground circuit malfunction. • AV communication circuits between AV control unit and BOSE speaker amp. are malfunctioning.	• BOSE speaker amp. power supply and ground circuits. Refer to AV-847, "BOSE AMP. : Diagnosis Procedure". • AV communication circuits between AV control unit and BOSE speaker amp.
• AV COMM CIRCUIT [U1300] • VIDEO DIST CONN [U1246]	When any of the following is detected: • video distributor power supply or ground circuit malfunction. • headrest display unit (driver seat) power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and headrest display unit (driver seat).	• Video distributor power supply and ground circuits. Refer to AV-849, "VIDEO DISTRIBUTOR : Diagnosis Procedure". • Headrest display unit (driver seat) power supply and ground circuits. Refer to AV-850, "HEADREST DISPLAY UNIT : Diagnosis Procedure". • AV communication circuits between AV control unit and headrest display unit (driver seat).
• AV COMM CIRCUIT [U1300] • AROUND CAMERA CONN [U125B]	When any of the following is detected: • around view monitor control unit power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and around view monitor control unit.	• Around view monitor control unit power supply and ground circuits. Refer to AV-850, "AROUND VIEW MONITOR CONTROL UNIT : Diagnosis Procedure". • AV communication circuits between AV control unit and around view monitor control unit.
• AV COMM CIRCUIT [U1300] • SONAR CONN [U125C]	When any of the following is detected: • sonar control unit power supply or ground circuit malfunction. • AV communication circuit malfunction between AV control unit and sonar control unit.	• Sonar control unit power supply and ground circuits. Refer to AV-851, "SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : Diagnosis Procedure". • AV communication circuits between AV control unit and sonar control unit.

CONSULT Display	DTC Detection Condition	Possible Cause
• AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • SONAR CONN [U125C] • AROUND CAMERA CONN [U125B] • VIDEO DIST CONN [U1246]	AV communication circuit malfunction between AV control unit and multifunction switch.	AV communication circuits between AV control unit and multifunction switch.
• AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • AMP CONN [U124E] • SONAR CONN [U125C] • AROUND CAMERA CONN [U125B] • VIDEO DIST CONN [U1246]		

U1302 CAMERA POWER VOLT

DTC Logic

INFOID:0000000012849899

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAMERA SUPPLY POWER SUPPLY VOLTAGE ABNORMALITY [U1302]	Short in camera power circuit.	• Harness or connectors. • Camera. • Around view monitor control unit.

Diagnosis Procedure

INFOID:0000000012849900

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK CAMERA DATA MONITOR

Check CAMERA IMAGE SIG, CAMERA COMM STATUS and CAMERA COMM LINE for each camera in “DATA MONITOR” of “AVM”.

Is “OK” displayed for all cameras?

YES >> Refer to GI-50, "Intermittent Incident".
NO-1 (Front camera)>>GO TO 2.
NO-2 (Rear view camera)>>GO TO 4.
NO-3 (LH side camera)>>GO TO 6.
NO-4 (RH side camera)>>GO TO 8.

2.CHECK FRONT CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and camera connectors.
3. Check continuity between around view monitor control unit connector M97 and front camera connector E226.

Around view monitor control unit		Front camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	68	E226	1	Yes
	70		2	

4. Check continuity between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	68	—	No

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector M97 and front camera connector E226.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit connector M97 terminals.

Around view monitor control unit M97		Condition	Voltage (Approx.)
(+)	(–)		
Terminal	Terminal		
68	70	CAMERA switch is ON or shift position is R.	6.0 V

Is the inspection result normal?

YES >> Replace front camera. Refer to AV-933, "Removal and Installation".
NO >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".

4. CHECK REAR VIEW CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and rear view camera connector D511.
3. Check continuity between around view monitor control unit connector M97 and rear view camera connector D511.

Around view monitor control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	50	D511	8	Yes
	52		7	

4. Check continuity between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	50	—	No

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector M97 and rear view camera connector D511.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit connector M97 terminals.

Around view monitor control unit M97		Condition	Voltage (Approx.)
(+)	(–)		
Terminal	Terminal		
50	52	CAMERA switch is ON or shift position is R.	6.0 V

Is the inspection result normal?

YES >> Replace rear view camera. Refer to AV-934, "Removal and Installation".
NO >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".

6. CHECK LH SIDE CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and LH side camera connector D20.
3. Check continuity between around view monitor control unit connector M97 and LH side camera connector D20.

Around view monitor control unit		LH side camera		Continuity
Connector	Terminal	Connector	Terminal	

M97	56	D20	6	Yes
	58		18	

4. Check continuity between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	56	—	No

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace harness or connectors.

7. CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector M97 and LH side camera connector D20.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit connector M97 terminals.

Around view monitor control unit M97		Condition	Voltage (Approx.)
(+)	(−)		
Terminal	Terminal		
56	58	CAMERA switch is ON or shift position is R.	6.0 V

Is the inspection result normal?

YES >> Replace LH side camera. Refer to AV-935, "Removal and Installation".
NO >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".

8. CHECK RH SIDE CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and RH side camera connector D113.
3. Check continuity between around view monitor control unit connector M97 and RH side camera connector D113.

Around view monitor control unit		RH side camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	62	D113	6	Yes
	64		18	

4. Check continuity between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	62	—	No

Is the inspection result normal?

YES >> GO TO 9.
NO >> Repair or replace harness or connectors.

9. CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector M97 and RH side camera connector D113.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit connector M97 terminals.

Around view monitor control unit M97		Condition	Voltage (Approx.)
(+)	(–)		
Terminal	Terminal		
62	64	CAMERA switch is ON or shift position is R.	6.0 V

Is the inspection result normal?

YES >> Replace LH side camera. Refer to AV-935, "Removal and Installation".
NO >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".

U1303 LED POWER SUPPLY VOLT

DTC Logic

INFOID:0000000012849901

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
LED SUPPLY POWER SUPPLY VOLTAGE ABNORMALITY [U1303]	Short in camera power circuit.	• Harness or connectors. • Camera. • Around view monitor control unit.

Diagnosis Procedure

INFOID:0000000012849902

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK CAMERA DATA MONITOR

Check CAMERA IMAGE SIG, CAMERA COMM STATUS and CAMERA COMM LINE for each camera in “DATA MONITOR” of “AVM”.

Is “OK” displayed for all cameras?

YES >> Refer to GI-50, "Intermittent Incident".
NO-1 (LH side camera)>>GO TO 2.
NO-2 (RH side camera)>>GO TO 4.

2.CHECK LH SIDE CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and LH side camera connector D20.
3. Check continuity between around view monitor control unit connector M97 and LH side camera connector D20.

Around view monitor control unit		LH side camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	56	D20	6	Yes
	58		18	

4. Check continuity between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	56	—	No

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector M97 and LH side camera connector D20.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit connector M97 terminals.

Around view monitor control unit M97		Condition	Voltage (Approx.)
(+)	(–)		
Terminal	Terminal		
56	58	CAMERA switch is ON or shift position is R.	6.0 V

Is the inspection result normal?

YES >> Replace LH side camera. Refer to AV-935, "Removal and Installation".
NO >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".

4. CHECK RH SIDE CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and RH side camera connector D113.
3. Check continuity between around view monitor control unit connector M97 and RH side camera connector D113.

Around view monitor control unit		RH side camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	62	D113	6	Yes
	64		18	

4. Check continuity between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	62	—	No

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector M97 and RH side camera connector D113.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit connector M97 terminals.

Around view monitor control unit M97		Condition	Voltage (Approx.)
(+)	(–)		
Terminal	Terminal		
62	64	CAMERA switch is ON or shift position is R.	6.0 V

Is the inspection result normal?

YES >> Replace RH side camera. Refer to AV-935, "Removal and Installation".
NO >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".

U1304 CAMERA IMAGE CALIBRATION

DTC Logic

INFOID:0000000012849903

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
NON-COMPLETION OF THE CALIBRATION [U1304]	Camera calibration malfunction.	Cameras are not calibrated. Refer to AV-779, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Work Procedure".

U1305 CONFIG UNFINISH

DTC Logic

INFOID:0000000012849904

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
NON-COMPLETION OF THE WRITE CONFIGURATION [U1305]	Around view monitor control unit configuration malfunction.	Around view monitor control unit not configurated. Refer to AV-775, "CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) : Work Procedure".

U1310 AV CONTROL UNIT

DTC Logic

INFOID:0000000012849905

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (AV) [U1310]	An initial diagnosis error is detected in AV communication circuit.	Replace AV control unit if malfunction occurs constantly. Refer to AV-914, "Removal and Installation".

U1601, U1603, U1609, U160B FRONT DOOR SPEAKER/TWEETER

DTC Logic

INFOID:0000000012849906

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FL-DOOR WOOFER (OPEN, SHORT, GND-SHORT) [U1601] FL-DOOR WOOFER (VB-SHOR] [U1603]	When any of the following is detected: • Sound signal circuit malfunction between BOSE speaker amp. and front door speaker LH. • Sound signal circuit malfunction between BOSE speaker amp. and front tweeter LH.	• Sound signal circuits between BOSE speaker amp. and front door speaker LH. Refer to AV-861, "Diagnosis Procedure". • Sound signal circuits between BOSE speaker amp. and front tweeter LH. Refer to AV-858, "Diagnosis Procedure".
FR-DOOR WOOFER (OPEN, SHORT, GND-SHORT) [U1609] FR-DOOR WOOFER (VB-SHOR) [U160B]	When any of the following is detected: • Sound signal circuit malfunction between BOSE speaker amp. and front door speaker RH. • Sound signal circuit malfunction between BOSE speaker amp. and front tweeter RH.	• Sound signal circuits between BOSE speaker amp. and front door speaker RH. Refer to AV-861, "Diagnosis Procedure". • Sound signal circuits between BOSE speaker amp. and front tweeter RH. Refer to AV-858, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849907

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1601, U1603, U1609 or U160B detected?

YES >> Refer to AV-861, "Diagnosis Procedure" (front door speaker) or AV-858, "Diagnosis Procedure" (front tweeter).

NO >> Refer to GI-50, "Intermittent Incident".

U1627, U162F TWEETER

DTC Logic

INFOID:0000000012849908

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
F-INST L-TWEETER (OPEN, SHORT, GND-SHORT or VB-SHOR) [U1627]	Sound signal circuit malfunction between BOSE speaker amp. and instrument panel tweeter LH.	Sound signal circuits between BOSE speaker amp. and instrument panel tweeter LH. Refer to AV-855, "Diagnosis Procedure".
F-INST R-TWEETER (OPEN, SHORT, GND-SHORT or VB-SHOR) [U162F]	Sound signal circuit malfunction between BOSE speaker amp. and instrument panel tweeter RH.	Sound signal circuits between BOSE speaker amp. and instrument panel tweeter RH. Refer to AV-855, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849909

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1627 or U162F detected?

YES >> Refer to AV-855, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

U162A CENTER SPEAKER

DTC Logic

INFOID:0000000012849910

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
F-INST C-SQUAWK (OPEN, SHORT, GND-SHORT, or VB-SHORT) [U162A]	Sound signal circuit malfunction between BOSE speaker amp. and center speaker.	Sound signal circuits between BOSE speaker amp. and center speaker. Refer to AV-853, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849911

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U162A detected?

YES >> Refer to AV-853, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

U1684, U1687, U168C, U168F REAR DOOR SPEAKER/TWEETER

DTC Logic

INFOID:0000000012849912

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
2L-DOOR SPEAKER (OPEN, SHORT, GND-SHORT) [U1684] 2L-DOOR SPEAKER (VB-SHOR) [U1687]	When any of the following is detected: • sound signal circuit malfunction between BOSE speaker amp. and rear door speaker LH. • sound signal circuit malfunction between BOSE speaker amp. and rear door tweeter LH.	• Sound signal circuits between BOSE speaker amp. and rear door speaker LH. Refer to AV-867, "Diagnosis Procedure". • Sound signal circuits between BOSE speaker amp. and rear door tweeter LH. Refer to AV-864, "Diagnosis Procedure".
2R-DOOR SPEAKER (OPEN, SHORT, GND-SHORT) [U168C] 2R-DOOR SPEAKER (VB-SHOR) [U168F]	When either one of the following items are detected: • sound signal circuit malfunction between BOSE speaker amp. and rear door speaker RH. • sound signal circuit malfunction between BOSE speaker amp. and rear door tweeter RH.	• Sound signal circuits between BOSE speaker amp. and rear door speaker RH. Refer to AV-867, "Diagnosis Procedure". • Sound signal circuits between BOSE speaker amp. and rear door tweeter RH. Refer to AV-864, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849913

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U1684, U1687, U168C or U168F detected?

YES >> Refer to AV-867, "Diagnosis Procedure" (rear door speaker) or AV-864, "Diagnosis Procedure" (rear door tweeter).

NO >> Refer to GI-50, "Intermittent Incident".

U175D WOOFER

DTC Logic

INFOID:0000000012849914

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
R-LUGGAGE L-WOOFER (OPEN, SHORT, GND-SHORT or VB-SHOR) [U175D]	Sound signal circuit malfunction between BOSE speaker amp. and subwoofer.	Sound signal circuits between BOSE speaker amp. and subwoofer. Refer to AV-873, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849915

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U175D detected?

YES >> Refer to AV-873, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

U176A, U1772 ROOF SPEAKER

DTC Logic

INFOID:0000000012849916

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
R-ROOF L-SQAWK (OPEN, SHORT, GND-SHORT or VB-SHOR) [U176A]	Sound signal circuit malfunction between BOSE speaker amp. and rear side speaker LH.	Sound signal circuits between BOSE speaker amp. and rear side speaker LH. Refer to AV-870, "Diagnosis Procedure".
R-ROOF R-SQAWK (OPEN, SHORT, GND-SHORT or VB-SHOR) [U1772]	Sound signal circuit malfunction between BOSE speaker amp. and rear side speaker RH.	Sound signal circuits between BOSE speaker amp. and rear side speaker RH. Refer to AV-870, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012849917

1.PERFORM SELF DIAGNOSTIC RESULT

1. Perform Self Diagnostic Result for MULTI AV.
2. Erase Self Diagnostic Result. Turn ignition switch OFF.
3. Turn ignition switch ON. Perform Self Diagnostic Result again.

Is DTC U176A or U1772 detected?

YES >> Refer to AV-870, "Diagnosis Procedure".
NO >> Refer to GI-50, "Intermittent Incident".

B2720 CORNER SENSOR [RL]

DTC Logic

INFOID:0000000012849918

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR LEFT SIDE EXTERNAL SENSOR [B2720]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Rear sonar sensor LH outer.

Diagnosis Procedure

INFOID:0000000012849919

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK REAR SONAR SENSOR LH OUTER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and rear sonar sensor LH outer connector.
3. Check continuity between sonar control unit connector M70 and rear sonar sensor LH outer connector B455.

Sonar control unit		Rear sonar sensor LH outer		Continuity
Connector	Terminal	Connector	Terminal	
M70	22	B455	2	Yes
	14		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	22	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR SONAR SENSOR LH OUTER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	22	—	0V

Is the inspection result normal?

YES >> Replace rear sonar sensor LH outer. Refer to AV-942, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2721 CENTER SENSOR [RL]

DTC Logic

INFOID:0000000012849920

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR LEFT SIDE INTERNAL SENSOR [B2721]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Rear sonar sensor LH inner.

Diagnosis Procedure

INFOID:0000000012849921

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK REAR SONAR SENSOR LH INNER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and rear sonar sensor LH inner connector.
3. Check continuity between sonar control unit connector M70 and rear sonar sensor LH inner connector B457.

Sonar control unit		Rear sonar sensor LH inner		Continuity
Connector	Terminal	Connector	Terminal	
M70	21	B457	2	Yes
	14		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	21	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR SONAR SENSOR LH INNER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	21	—	0V

Is the inspection result normal?

YES >> Replace rear sonar sensor LH inner. Refer to AV-942, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2722 CENTER SENSOR [RR]

DTC Logic

INFOID:0000000012849922

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR RIGHT SIDE INTERNAL SENSOR [B2722]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Rear sonar sensor RH inner.

Diagnosis Procedure

INFOID:0000000012849923

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK REAR SONAR SENSOR RH INNER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and rear sonar sensor RH inner connector.
3. Check continuity between sonar control unit connector M70 and rear sonar sensor RH inner connector B458.

Sonar control unit		Rear sonar sensor RH inner		Continuity
Connector	Terminal	Connector	Terminal	
M70	9	B458	2	Yes
	14		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	9	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR SONAR SENSOR RH INNER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	9	—	0V

Is the inspection result normal?

YES >> Replace rear sonar sensor RH inner. Refer to AV-942, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2723 CORNER SENSOR [RR]

DTC Logic

INFOID:0000000012849924

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR RIGHT SIDE EXTERNAL SENSOR [B2723]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Rear sonar sensor RH outer.

Diagnosis Procedure

INFOID:0000000012849925

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK REAR SONAR SENSOR RH OUTER SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and rear sonar sensor RH outer connector.
3. Check continuity between sonar control unit connector M70 and rear sonar sensor RH outer connector B456.

Sonar control unit		Rear sonar sensor RH outer		Continuity
Connector	Terminal	Connector	Terminal	
M70	10	B456	2	Yes
	14		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	10	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR SONAR SENSOR RH OUTER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	10	—	0V

Is the inspection result normal?

YES >> Replace rear sonar sensor RH outer. Refer to AV-942, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2724 SONAR CONTROL UNIT

DTC Logic

INFOID:0000000012849926

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
ECU [B2724]	Sonar control module malfunction.	Replace sonar control module.

B2725 REAR BUZZER

DTC Logic

INFOID:0000000012849927

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
REAR BUZZER [B2725]	• Buzzer is open or short circuited. • Buzzer malfunction.	• Harness or connectors. • Buzzer.

Diagnosis Procedure

INFOID:0000000012849928

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK SONAR BUZZER SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and sonar buzzer connector.
3. Check continuity between sonar control unit connector M70 and sonar buzzer connector B35.

Sonar control unit		Sonar buzzer		Continuity
Connector	Terminal	Connector	Terminal	
M70	20	B35	3	Yes

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	20	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK SONAR BUZZER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	20	—	0V

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK SONAR BUZZER SIGNAL CIRCUIT SHORT TO BUZZER POWER

1. Turn ignition switch OFF.
2. Check continuity between sonar control unit connector M70 terminals.

Sonar control unit connector M70		Continuity
Terminal	Terminal	
19	20	No

Is the inspection result normal?

YES >> Replace sonar buzzer. Refer to AV-944, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B2729 CORNER SENSOR [FL]

DTC Logic

INFOID:0000000012849929

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT LEFT SIDE EXTERNAL SENSOR [B2729]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Front sonar sensor LH outer.

Diagnosis Procedure

INFOID:0000000012849930

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FRONT SONAR SENSOR LH OUTER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and front sonar sensor LH outer connector.
3. Check continuity between sonar control unit connector M70 and front sonar sensor LH outer connector E307.

Sonar control unit		Front sonar sensor LH outer		Continuity
Connector	Terminal	Connector	Terminal	
M70	3	E307	2	Yes
	13		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	3	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT SONAR SENSOR LH OUTER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	3	—	0V

Is the inspection result normal?

YES >> Replace front sonar sensor LH outer. Refer to AV-942, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B272A CENTER SENSOR [FL]

DTC Logic

INFOID:0000000013591954

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT LEFT SIDE INTERNAL SENSOR [B272A]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Front sonar sensor LH inner.

Diagnosis Procedure

INFOID:0000000013591955

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FRONT SONAR SENSOR LH INNER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector M70 and front sonar sensor LH inner connector E309.
3. Check continuity between sonar control unit connector M70 and front sonar sensor LH inner connector E309.

Sonar control unit		Front sonar sensor LH inner		Continuity
Connector	Terminal	Connector	Terminal	
M70	2	E309	2	Yes
	13		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	2	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT SONAR SENSOR LH INNER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	2	—	0V

Is the inspection result normal?

YES >> Replace front sonar sensor LH inner. Refer to AV-942, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B272B CENTER SENSOR [FR]

DTC Logic

INFOID:0000000013591956

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT RIGHT SIDE INTERNAL SENSOR [B272B]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Front sonar sensor RH inner.

Diagnosis Procedure

INFOID:0000000013591957

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FRONT SONAR SENSOR RH INNER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector M70 and front sonar sensor RH inner connector E310.
3. Check continuity between sonar control unit connector M70 and front sonar sensor RH inner connector E310.

Sonar control unit		Front sonar sensor RH inner		Continuity
Connector	Terminal	Connector	Terminal	
M70	1	E310	2	Yes
	13		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	1	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT SONAR SENSOR RH INNER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	1	—	0V

Is the inspection result normal?

YES >> Replace front sonar sensor RH inner. Refer to AV-942, "Removal and Installation".
NO >> Repair or replace harness or connectors.

B272C CORNER SENSOR [FR]

DTC Logic

INFOID:0000000012849931

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
FRONT RIGHT SIDE EXTERNAL SENSOR [B272C]	• Sensor is not configured. • Sensor is open or short circuited. • Sensor element malfunction.	• Sensor configuration. • Harness or connectors. • Front sonar sensor RH outer.

Diagnosis Procedure

INFOID:0000000012849932

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FRONT SONAR SENSOR RH OUTER CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and front sonar sensor RH outer connector.
3. Check continuity between sonar control unit connector M70 and front sonar sensor RH outer connector E308.

Sonar control unit		Front sonar sensor RH outer		Continuity
Connector	Terminal	Connector	Terminal	
M70	4	E308	2	Yes
	13		1	

4. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	4	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT SONAR SENSOR RH OUTER SIGNAL CIRCUIT SHORT TO BATTERY

1. Turn ignition switch ON.
2. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M70	4	—	0V

Is the inspection result normal?

YES >> Replace front sonar sensor RH outer. Refer to AV-942, "Removal and Installation".
NO >> Repair or replace harness or connectors.

POWER SUPPLY AND GROUND CIRCUIT

AV CONTROL UNIT

AV CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012849933

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
68	Ignition signal	29 (5A)
19	Battery power supply	15 (15A)
7	ACC power supply	65 (10A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connectors M161 and M163.
3. Check voltage between AV control unit connectors and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M163	68	—	Ignition switch: ON	Battery voltage
M161	7		Ignition switch: ACC	
	19		Ignition switch: OFF	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between AV control unit connector M161 terminal 20 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M161	20	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

DISPLAY UNIT

DISPLAY UNIT : Diagnosis Procedure

INFOID:0000000012849934

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
11	Battery power supply	15 (15A)
23	ACC power supply	65 (10A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector.
3. Check voltage between display connector M92 and ground.

Display unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M92	23	—	Ignition switch: ACC	Battery voltage
	11		Ignition switch: OFF	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between display unit connector M92 terminal 12 and ground.

Display unit		Ground	Continuity
Connector	Terminal		
M92	12	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

BOSE AMP.

BOSE AMP. : Diagnosis Procedure

INFOID:0000000012849935

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
50	Battery power supply	11 (15A)
51		12 (15A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Disconnect BOSE speaker amp. connector B121.
2. Check voltage between BOSE speaker amp. connector B121 and ground.

BOSE speaker amp.		Ground	Voltage (Approx.)
Connector	Terminal		
B121	50	—	Battery voltage
	51		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between BOSE speaker amp. connector B121 and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B121	47	—	Yes
	52		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

MULTIFUNCTION SWITCH

MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:0000000012849936

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
3	ACC power supply	65 (10A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector.
3. Check voltage between multifunction switch connector M98 terminal 3 and ground.

Multifunction switch		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M98	3	—	Ignition switch: ACC	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK CONTROL UNIT GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M164.
3. Check continuity between multifunction switch connector M98 terminal 9 and AV control unit connector M164 terminal 98.

Multifunction switch		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M98	9	M164	98	Yes

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness or connectors.

4.CHECK SWITCH GROUND CIRCUIT

Check continuity between multifunction switch connector M98 terminal 1 and ground.

Multifunction switch		Ground	Continuity
Connector	Terminal		
M98	1	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

VIDEO DISTRIBUTOR

VIDEO DISTRIBUTOR : Diagnosis Procedure

INFOID:0000000012849937

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
4	ACC power supply	65 (10A)
2	Battery power supply	15 (15A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect video distributor connector B24.
3. Check voltage between video distributor connector B24 and ground.

Video distributor		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
B24	2	—	Ignition switch: ACC	Battery voltage
	4		Ignition switch: OFF	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between video distributor connector B24 and ground.

Video distributor		Ground	Continuity
Connector	Terminal		
B24	1	—	Yes
	3		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

HEADREST DISPLAY UNIT

HEADREST DISPLAY UNIT : Diagnosis Procedure

INFOID:0000000012849938

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
15, 16	Battery power supply	15 (15A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Disconnect headrest display unit connector.
2. Check voltage between headrest display unit connector and ground.

Headrest displayl unit		Ground	Voltage (Approx.)
Connector	Terminal		
B202 (driver seat)	15, 16	—	Battery voltage
B302 (passenger seat)			

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between headrest display unit connector and ground.

Headrest displayl unit		Ground	Continuity
Connector	Terminal		
B202 (driver seat)	12, 31, 32	—	Yes
B302 (passenger seat)	28, 31, 32		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

AROUND VIEW MONITOR CONTROL UNIT

AROUND VIEW MONITOR CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012849939

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
3	Ignition signal	29 (5A)
4	ACC power supply	65 (10A)
2	Battery power supply	15 (15A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M96.
3. Check voltage between around view monitor control unit connector M96 and ground.

Around view monitor control unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M96	3	—	Ignition switch: ON	Battery voltage
	4		Ignition switch: ACC	
	2		Ignition switch: OFF	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between around view monitor control unit connector M96 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M96	1	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : Diagnosis Procedure

INFOID:0000000012849940

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
12	Ignition signal	29 (5A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector M70.
3. Check voltage between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M70	12	—	Ignition switch: ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between sonar control unit connector M70 and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M70	15	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

CENTER SPEAKER

Diagnosis Procedure

INFOID:0000000012849941

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK CENTER SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B122 and center speaker connector M110.
2. Check continuity between BOSE speaker amp. connector B122 and center speaker connector M110.

BOSE speaker amp.		Center speaker		Continuity
Connector	Terminal	Connector	Terminal	
B122	57	M110	1	Yes
	58		2	

3. Check continuity between BOSE speaker amp. connector B122 and ground.

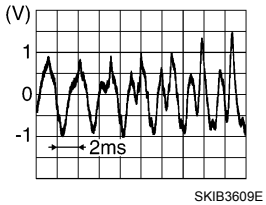
BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B122	57	—	No
	58		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK CENTER SPEAKER SIGNAL

1. Connect BOSE speaker amp. connector B122 and center speaker connector M110.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of BOSE speaker amp. connector B122.

BOSE speaker amp. connector B122		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
57	58	Audio signal output	

SKIB3609E

Is the inspection result normal?

YES >> Replace center speaker. Refer to AV-924, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M165 and BOSE speaker amp. connector B120.
2. Check continuity between AV control unit connector M165 and BOSE speaker amp. connector B120.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M165	125	B120	29	Yes
	133		9	

3. Check continuity between AV control unit connector M165 and ground.

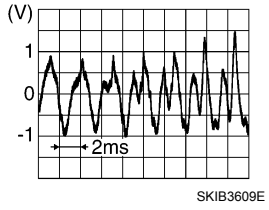
AV control unit		Ground	Continuity
Connector	Terminal		
M165	125	—	No
	133		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M165 and BOSE speaker amp. connector B120.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M165.

AV control unit connector M165		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
125	133	Audio signal output	

SKIB3609E

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-920, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

INSTRUMENT PANEL SPEAKER/TWEETER

Diagnosis Procedure

INFOID:0000000012849942

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK INSTRUMENT PANEL TWEETER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector and suspect instrument panel tweeter connector.
2. Check continuity between BOSE speaker amp. connector and suspect instrument panel tweeter connector.

BOSE speaker amp.		Instrument panel tweeter		Continuity
Connector	Terminal	Connector	Terminal	
B122	71	M62 (LH)	1	Yes
	70		2	
B121	54	M73 (RH)	1	
	49		2	

3. Check continuity between BOSE speaker amp. connector and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B122	71	—	No
	70		
B121	54		
	49		

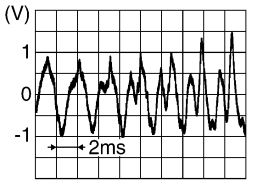
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK INSTRUMENT PANEL TWEETER SIGNAL

1. Connect BOSE speaker amp. connector and suspect instrument panel tweeter connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector.

BOSE speaker amp.		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

54	49	Audio signal output	 SKIB3609E
71	70		

Is the inspection result normal?

YES >> Replace instrument panel tweeter. Refer to AV-923, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M161 and BOSE speaker amp. connector B120.
2. Check continuity between AV control unit connector M161 and BOSE speaker amp. connector B120.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M161	2	B120	25	Yes
	3		5	
	11		26	
	12		6	

3. Check continuity between AV control unit connector M161 and ground.

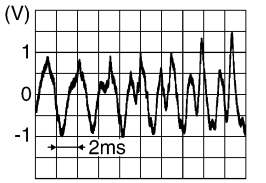
AV control unit		Ground	Continuity
Connector	Terminal		
M161	2	—	No
	3		
	11		
	12		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M161 and BOSE speaker amp. connector B120.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M161.

AV control unit connector M161		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
2	3	Audio signal output	 SKIB3609E
11	12		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-920, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

FRONT TWEETER

Diagnosis Procedure

INFOID:0000000012849943

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK FRONT TWEETER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B121 and suspect front tweeter connector.
2. Check continuity between BOSE speaker amp. connector B121 and suspect front door speaker connector.

BOSE speaker amp.		Front tweeter		Continuity
Connector	Terminal	Connector	Terminal	
B121	45	M109 (LH)	1	Yes
	46		2	
	41	M111 (RH)	1	
	42		2	

3. Check continuity between BOSE speaker amp. connector B121 and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B121	45	—	No
	46		
	41		
	42		

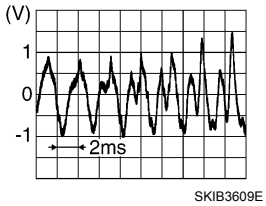
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK FRONT TWEETER SIGNAL

1. Connect BOSE speaker amp. connector B121 and suspect front tweeter connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B121.

BOSE speaker amp. connector B121		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

45	46	Audio signal output	 SKIB3609E
41	42		

Is the inspection result normal?

YES >> Replace front tweeter. Refer to AV-922, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M161 and BOSE speaker amp. connector B120.
2. Check continuity between AV control unit connector M161 and BOSE speaker amp. connector B120.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M161	2	B120	25	Yes
	3		5	
	11		26	
	12		6	

3. Check continuity between AV control unit connector M161 and ground.

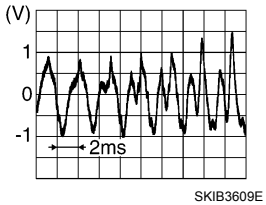
AV control unit		Ground	Continuity
Connector	Terminal		
M161	2	—	No
	3		
	11		
	12		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M161 and BOSE speaker amp. connector B120.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M161.

AV control unit connector M161		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
2	3	Audio signal output	 SKIB3609E
11	12		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-920, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

FRONT DOOR SPEAKER

Diagnosis Procedure

INFOID:0000000012849944

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK FRONT DOOR SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B121 and suspect front door speaker connector.
2. Check continuity between BOSE speaker amp. connector B121 and suspect front door speaker connector.

BOSE speaker amp.		Front door speaker		Continuity
Connector	Terminal	Connector	Terminal	
B121	45	D12 (LH)	1	Yes
	46		2	
	41	D112 (RH)	1	
	42		2	

3. Check continuity between BOSE speaker amp. connector B121 and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B121	45	—	No
	46		
	41		
	42		

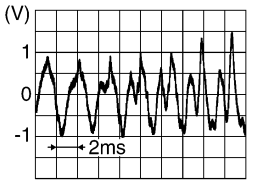
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK FRONT DOOR SPEAKER SIGNAL

1. Connect BOSE speaker amp. connector B121 and suspect front door speaker connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B121.

BOSE speaker amp. connector B121		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

45	46	Audio signal output	 SKIB3609E
41	42		

Is the inspection result normal?

YES >> Replace front door speaker. Refer to AV-921, "Removal and Installation".
NO >> GO TO 3.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M161 and BOSE speaker amp. connector B120.
2. Check continuity between AV control unit connector M161 and BOSE speaker amp. connector B120.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M161	2	B120	25	Yes
	3		5	
	11		26	
	12		6	

3. Check continuity between AV control unit connector M161 and ground.

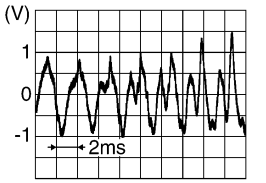
AV control unit		Ground	Continuity
Connector	Terminal		
M161	2	—	No
	3		
	11		
	12		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M161 and BOSE speaker amp. connector B120.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M161.

AV control unit connector M161		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
2	3	Audio signal output	 SKIB3609E
11	12		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-920, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

REAR DOOR TWEETER

Diagnosis Procedure

INFOID:0000000012849945

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK REAR DOOR TWEETER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B122 and suspect rear door tweeter connector.
2. Check continuity between BOSE speaker amp. connector B122 and suspect rear door tweeter connector.

BOSE speaker amp.		Rear door tweeter		Continuity
Connector	Terminal	Connector	Terminal	
B122	56	D252 (LH)	1	Yes
	69		2	
	64	D352 (RH)	1	
	75		2	

3. Check continuity between BOSE speaker amp. connector B122 and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B122	56	—	No
	69		
	64		
	75		

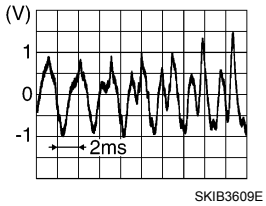
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK REAR DOOR TWEETER SIGNAL

1. Connect BOSE speaker amp. connector B122 and suspect rear door tweeter connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B122.

BOSE speaker amp. connector B122		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

56	69	Audio signal output	 SKIB3609E
64	75		

Is the inspection result normal?

YES >> Replace rear door tweeter. Refer to AV-926, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M161 and BOSE speaker amp. connector B120.
2. Check continuity between AV control unit connector M161 and BOSE speaker amp. connector B120.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M161	4	B120	27	Yes
	5		7	
	13		28	
	14		8	

3. Check continuity between AV control unit connector M161 and ground.

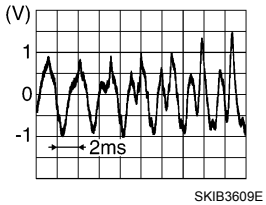
AV control unit		Ground	Continuity
Connector	Terminal		
M161	4	—	No
	5		
	13		
	14		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M161 and BOSE speaker amp. connector B120.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M161.

AV control unit connector M161		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
4	5	Audio signal output	 SKIB3609E
13	14		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-920, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

REAR DOOR SPEAKER

Diagnosis Procedure

INFOID:0000000012849946

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK REAR DOOR SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B122 and suspect rear door speaker connector.
2. Check continuity between BOSE speaker amp. connector B122 and suspect rear door speaker connector.

BOSE speaker amp.		Rear door speaker		Continuity
Connector	Terminal	Connector	Terminal	
B122	56	D207 (LH)	1	Yes
	69		2	
	64	D307 (RH)	1	
	75		2	

3. Check continuity between BOSE speaker amp. connector B122 and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B122	56	—	No
	69		
	64		
	75		

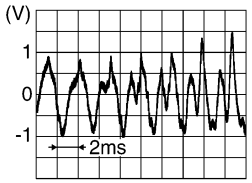
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK REAR DOOR SPEAKER SIGNAL

1. Connect BOSE speaker amp. connector B122 and suspect rear door speaker connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B122.

BOSE speaker amp. connector B122		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

56	69	Audio signal output	 SKIB3609E
64	75		

Is the inspection result normal?

YES >> Replace rear door speaker. Refer to AV-925, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M161 and BOSE speaker amp. connector B120.
2. Check continuity between AV control unit connector M161 and BOSE speaker amp. connector B120.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M161	4	B120	27	Yes
	5		7	
	13		28	
	14		8	

3. Check continuity between AV control unit connector M161 and ground.

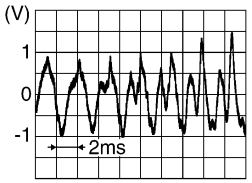
AV control unit		Ground	Continuity
Connector	Terminal		
M161	4	—	No
	5		
	13		
	14		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M161 and BOSE speaker amp. connector B120.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M161.

AV control unit connector M161		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
4	5	Audio signal output	 SKIB3609E
13	14		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-920, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

REAR SPEAKER

Diagnosis Procedure

INFOID:0000000012849947

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminals or connectors.

2.CHECK REAR SIDE SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector B122 and suspect rear side speaker connector.
2. Check continuity between BOSE speaker amp. connector B122 and suspect rear side speaker connector.

BOSE speaker amp.		Rear side speaker		Continuity
Connector	Terminal	Connector	Terminal	
B122	62	B1 (LH)	1	Yes
	73		2	
	63	B153 (RH)	1	
	74		2	

3. Check continuity between BOSE speaker amp. connector B122 and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B122	62	—	No
	73		
	63		
	74		

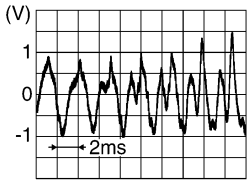
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK REAR SIDE SPEAKER SIGNAL

1. Connect BOSE speaker amp. connector B122 and suspect rear side speaker connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between terminals of BOSE speaker amp. connector B122.

BOSE speaker amp. connector B122		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

62	73	Audio signal output	 SKIB3609E
63	74		

Is the inspection result normal?

YES >> Replace rear side speaker. Refer to AV-927, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M161 and BOSE speaker amp. connector B120.
2. Check continuity between AV control unit connector M161 and BOSE speaker amp. connector B120.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M161	4	B120	27	Yes
	5		7	
	13		28	
	14		8	

3. Check continuity between AV control unit connector M161 and ground.

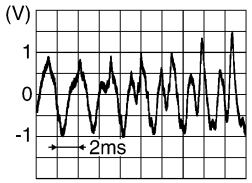
AV control unit		Ground	Continuity
Connector	Terminal		
M161	4	—	No
	5		
	13		
	14		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M161 and BOSE speaker amp. connector B120.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M161.

AV control unit connector M161		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
4	5	Audio signal output	 SKIB3609E
13	14		

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-920, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

SUBWOOFER

Diagnosis Procedure

INFOID:0000000012849948

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, BOSE speaker amp. and subwoofer connectors for the following:
- Proper connection
- Damage
- Disconnected or looses terminals

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair the terminal and connector.

2.CHECK SUBWOOFER SIGNAL CIRCUIT CONTINUITY

1. Disconnect BOSE speaker amp. connector and subwoofer connector.
2. Check continuity between BOSE speaker amp. connector and subwoofer connector.

BOSE speaker amp.		Subwoofer		Continuity
Connector	Terminal	Connector	Terminal	
B121	48	B73	1	Yes
	53		2	
	44		3	
	43		4	

3. Check continuity between BOSE speaker amp. connector and ground.

BOSE speaker amp.		Ground	Continuity
Connector	Terminal		
B121	48	—	No
	53		
	44		
	43		

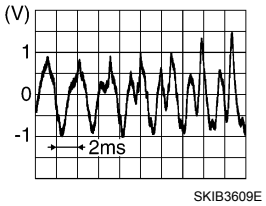
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK SUBWOOFER SIGNAL

1. Connect BOSE speaker amp. connector and subwoofer connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check the signal between the terminals of BOSE speaker amp. connector.

BOSE speaker amp. connector		Condition	Reference value
(+)	(−)		
Terminal	Terminal		

53	48	Audio signal output	
43	44		

Is the inspection result normal?

YES >> Replace subwoofer. Refer to AV-928, "Removal and Installation".
NO >> GO TO 4.

4. CHECK PRE-AMP SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M165 and BOSE speaker amp. connector B120.
2. Check continuity between AV control unit connector M165 and BOSE speaker amp. connector B120.

AV control unit		BOSE speaker amp.		Continuity
Connector	Terminal	Connector	Terminal	
M165	124	B120	30	Yes
	132		10	

3. Check continuity between AV control unit connector M165 and ground.

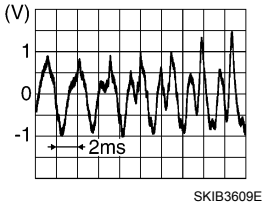
AV control unit		Ground	Continuity
Connector	Terminal		
M165	124	—	No
	132		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK PRE-AMP SIGNAL

1. Connect AV control unit connector M165 and BOSE speaker amp. connector B120.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check signal between the terminals of AV control unit connector M165.

AV control unit connector M165		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
124	132	Audio signal output	

Is the inspection result normal?

YES >> Replace BOSE speaker amp. Refer to AV-920, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

FRONT AUXILIARY INPUT JACK AUDIO SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849949

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK AUX SOUND SIGNAL CIRCUIT CONTINUITY

1. Turn ignition OFF.
2. Disconnect AV control unit connector M162 and front auxiliary input jacks connector.
3. Check continuity between AV control unit connector M162 and front auxiliary input jacks connector.

AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M162	24	M205	3	Yes
	38		1	

4. Check continuity between AV control unit connector M162 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M162	24	—	No
	38		

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AUX SOUND SIGNAL GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M162 and front auxiliary input jacks connector.

AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M162	39	M205	2	Yes

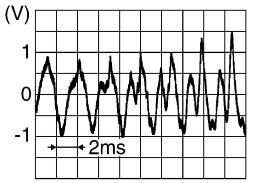
Is inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK AUX SOUND SIGNAL

1. Connect AV control unit connector M162 and front auxiliary input jacks connector.
2. Turn ignition switch to ACC.
3. Select AUX mode.
4. Check signals between terminals of AV control unit connector M162.

AV control unit connector M162		Condition	Reference value
(+)	(–)		
Terminal	Terminal		

24	39	AUX mode selected	 SKIB3609E
38	39		

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-914, "Removal and Installation".
NO >> Replace front auxiliary input jacks. Refer to AV-930, "Removal and Installation".

RGB DIGITAL IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849950

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK RGB DIGITAL IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M140 and display unit connector M141.
3. Check continuity between AV control unit connector M140 and display unit connector M141.

AV control unit		Display unit		Continuity
Connector	Terminals	Connector	Terminals	
M140	165	M141	28	Yes
	164		27	

4. Check continuity between AV control unit connector M140 and ground.

AV control unit		Ground	Continuity
Connector	Terminals		
M140	165	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RGB DIGITAL IMAGE SIGNAL

1. Connect AV control unit connector M140.
2. Turn ignition switch ON.
3. Check signal between terminals of display unit connector M141.

Display unit connector M141		Condition	Voltage (Approx.)
(+)	(−)		
Terminal	Terminal		
28	27	Audio system is ON.	1.3 V

Is the inspection result normal?

YES >> Replace display unit. Refer to AV-919, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

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

Diagnosis Procedure

INFOID:0000000012849951

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK COMPOSITE IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M163 and display unit connector M92.
3. Check continuity between AV control unit connector M163 and display unit connector M92.

AV control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M163	56	M92	18	Yes
	55		19	

4. Check continuity between AV control unit connector M163 and ground.

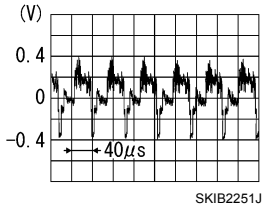
AV control unit		Ground	Continuity
Connector	Terminal		
M163	56	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMPOSITE IMAGE SIGNAL

1. Connect AV control unit connector M163 and display unit connector M92.
2. Turn ignition switch ON.
3. Check signal between terminals of AV control unit connector M163.

AV control unit connector M163		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
56	55	DVD image is displayed.	

SKIB2251J

Is the inspection result normal?

YES >> Replace display unit. Refer to AV-919, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

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

Diagnosis Procedure

INFOID:0000000012849952

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1. CHECK COMPOSITE IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M164 and video distributor connector B25.
3. Check continuity between AV control unit connector M164 and video distributor connector B25.

AV control unit		Video distributor		Continuity
Connector	Terminal	Connector	Terminal	
M164	107	B25	34	Yes
	105		33	

4. Check continuity between AV control unit connector M164 and ground.

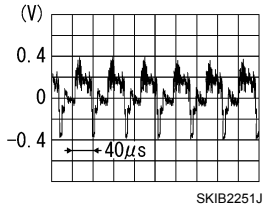
AV control unit		Ground	Continuity
Connector	Terminal		
M164	107	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2. CHECK COMPOSITE IMAGE SIGNAL

1. Connect AV control unit connector M164 and video distributor connector B25.
2. Turn ignition switch ON.
3. Check signal between terminals of video distributor connector B25.

Video distributor connector B25		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
34	33	DVD, USB or front auxiliary input jacks image is displayed on headrest display.	 SKIB2251J

Is the inspection result normal?

YES >> Replace video distributor. Refer to AV-937, "Removal and Installation".
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

COMPOSITE IMAGE SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO HEADREST DISPLAY UNIT)

Diagnosis Procedure

INFOID:0000000012849953

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK COMPOSITE IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect video distributor connector B24 and headrest display unit connectors.
3. Check continuity between video distributor connector B24 and headrest display unit connectors.

Video distributor		Headrest display unit		Continuity
Connector	Terminal	Connector	Terminal	
B24	32	B202 (driver seat)	5	Yes
	31		21	
	28	B302 (passenger seat)	5	Yes
	27		21	

4. Check continuity between video distributor connector B24 and ground.

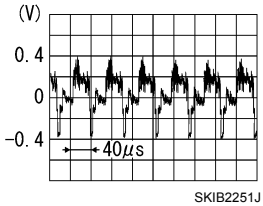
Video distributor		Ground	Continuity
Connector	Terminal		
B24	32	—	No
	28		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMPOSITE IMAGE SIGNAL

1. Connect video distributor connector B24 and headrest display unit connectors.
2. Turn ignition switch ON.
3. Check signal between terminals of headrest display unit connectors.

Headrest display unit			Condition	Reference value
Connector	(+)	(−)		
	Terminal	Terminal		
B202 (driver seat) / B302 (passenger seat)	5	21	DVD, USB or front auxiliary input jacks image is displayed on headrest display.	

SKIB2251J

Is the inspection result normal?

YES >> Replace headrest display unit. Refer to AV-938, "Removal and Installation".
NO >> Replace video distributor. Refer to AV-937, "Removal and Installation".

AUX IMAGE SIGNAL CIRCUIT (FRONT AUXILIARY INPUT JACKS TO AV CONTROL UNIT)

Diagnosis Procedure

INFOID:0000000012849954

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1. CHECK AUX IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M164 and front auxiliary input jacks connector M205.
3. Check continuity between AV control unit connector M164 and front auxiliary input jacks connector M205.

AV control unit		Front auxiliary input jacks		Continuity
Connector	Terminal	Connector	Terminal	
M164	91	M205	7	Yes
	92		8	

4. Check continuity between AV control unit connector M164 and ground.

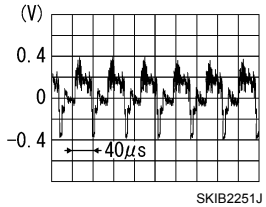
AV control unit		Ground	Continuity
Connector	Terminal		
M164	91	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2. CHECK AUX IMAGE SIGNAL

1. Connect AV control unit connector M164 and front auxiliary input jacks connector M205.
2. Turn ignition switch ON.
3. Check signal between terminals of front auxiliary input jacks connector M205.

Front auxiliary input jacks connector M205		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
7	8	Front auxiliary input jacks image is displayed.	

SKIB2251J

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-914, "Removal and Installation".
NO >> Replace front auxiliary input jacks. Refer to AV-930, "Removal and Installation".

IMAGE SWITCH SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849955

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK CONTINUITY IMAGE SWITCH SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect video distributor connector B24 and headrest display unit connectors.
3. Check continuity between video distributor connector B24 and headrest display unit connectors.

Video distributor		Headrest display unit		Continuity
Connector	Terminal	Connector	Terminal	
B24	10	B202 (driver seat)	7	Yes
	7		23	
	9	B302 (passenger seat)	7	
	5		23	

4. Check continuity between video distributor connector B24 and ground.

Video distributor		Ground	Continuity
Connector	Terminal		
B24	10	—	No
	9		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK VIDEO DISTRIBUTOR VOLTAGE

1. Connect video distributor connector B24 and headrest display unit connectors.
2. Turn ignition switch ON.
3. Check voltage between terminals of video distributor connector B24.

Video distributor connector B24		Condition	Voltage (Approx.)
(+)	(–)		
Terminal	Terminal		
10	7	DVD, USB or front auxiliary input jacks image is displayed on headrest display.	0.5 V
		DVD, USB or rear auxiliary input jacks image is displayed on headrest display.	4.5 V
9	5	DVD, USB or front auxiliary input jacks image is displayed on headrest display.	0.5 V
		DVD, USB or rear auxiliary input jacks image is displayed on headrest display.	4.5 V

Is the inspection result normal?

YES >> Replace video distributor. Refer to AV-937, "Removal and Installation".
NO >> Replace headrest display unit. Refer to AV-938, "Removal and Installation".

DISK EJECT SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849956

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK DISK EJECT SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M164 and multifunction switch connector.
3. Check continuity between AV control unit connector M164 terminal 97 and multifunction switch connector M98 terminal 14.

AV control unit		Multifunction switch		Continuity
Connector	Terminal	Connector	Terminal	
M164	97	M98	14	Yes

4. Check continuity between AV control unit connector M164 terminal 978 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M164	97		No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector M164 and multifunction switch connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector M164 terminal 97 and ground.

AV control unit		Ground	Condition	Voltage (Approx.)
(+)		(–)		
Connector	Terminal			
M164	97	—	Pressing eject switch	0 V
			Except above	5.0 V

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-914, "Removal and Installation".
NO >> Replace multifunction switch. Refer to AV-916, "Removal and Installation".

MICROPHONE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849957

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK MICROPHONE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M163 and microphone connector.
3. Check continuity between AV control unit connector M163 and microphone connector R109.

AV control unit		Microphone		Continuity
Connector	Terminal	Connector	Terminal	
M163	59	R109	3	Yes
	60		1	
	75		4	

4. Check continuity between AV control unit connector M163 and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M163	59	—	No
	60		
	75		

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK MICROPHONE VCC VOLTAGE

1. Connect AV control unit connector M163.
2. Turn ignition switch ON.
3. Check voltage between terminals of AV control unit connector M163.

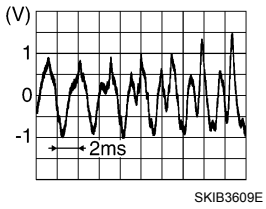
AV control unit connector M163		Voltage (Approx.)
(+)	(−)	
Terminal	Terminal	
60	59	5.0 V

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace AV control unit. Refer to AV-914, "Removal and Installation".

3.CHECK MICROPHONE SIGNAL

1. Connect microphone connector.
2. Check signal between terminals of AV control unit connector M163.

AV control unit connector M163		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
75	59	Speak into microphone.	

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-914, "Removal and Installation".
NO >> Replace microphone. Refer to AV-931, "Removal and Installation".

STEERING SWITCH

Diagnosis Procedure

INFOID:0000000012849958

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK STEERING SWITCH RESISTANCE

1. Turn ignition switch OFF.
2. Disconnect combination switch connector M149.
3. Check resistance between combination switch connector terminals.

Combination switch connector M149		Condition	Resistance Ω (Approx.)
Terminal	Terminal		
14	17	Depress SOURCE switch.	1
		Depress △ switch.	121
		Depress ▽ switch.	321
		Depress switch.	723
		Depress ENTER switch.	2023
15		Depress − switch.	1
		Depress + switch.	121
		Depress switch.	321
		Depress switch.	723
		Depress DISP switch.	2023

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace steering switch. Refer to AV-918, "Removal and Installation".

2.CHECK HARNESS BETWEEN COMBINATION SWITCH AND COMBINATION METER

1. Disconnect combination meter connector M24 and combination switch connector M30.
2. Check continuity between combination meter connector M24 and combination switch connector M30.

Combination meter		Combination switch		Continuity
Connector	Terminal	Connector	Terminal	
M24	3	M30	24	Yes
	24		33	
	4		31	

3. Check continuity between combination meter connector M24 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M24	3	—	No
	24		
	4		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3. CHECK COMBINATION SWITCH

Check continuity between combination switch connectors M30 and M149.

Combination switch				Continuity
Connector	Terminal	Connector	Terminal	
M30	24	M149	14	Yes
	31		15	
	33		17	

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace spiral cable. Refer to SR-15, "Removal and Installation".

4. CHECK HARNESS BETWEEN COMBINATION METER AND AV CONTROL UNIT

1. Disconnect AV control unit connector M161.
2. Check continuity between combination meter connector M24 and AV control unit connector M161.

Combination meter		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M24	14	M161	6	Yes
	15		16	
	16		15	

3. Check continuity between combination meter connector M24 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M24	14	—	No
	15		
	16		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connectors.

5. CHECK AV CONTROL UNIT VOLTAGE

1. Connect combination meter connector M24 and AV control unit connector M161.
2. Turn ignition switch ON.
3. Check voltage between terminals of AV control unit connector M161.

AV control unit M161		Voltage (Approx.)
(+)	(–)	
Terminal	Terminal	
6	15	5.0 V
16		

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-914, "Removal and Installation".
NO >> Replace combination meter. Refer to MWI-94, "Removal and Installation".

USB CONNECTOR

Diagnosis Procedure

INFOID:0000000012849959

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK USB INTERFACE HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector M55 and USB interface connector M209.
3. Check continuity between AV control unit connector M55 and USB interface connector M209.

AV control unit		USB interface		Continuity
Connector	Terminal	Connector	Terminal	
M55	137	M209	1	Yes
	138		2	
	139		3	
	140		4	
	141		5	

4. Check continuity between AV control unit connector M55 and ground.

AV control unit		—	Continuity
Connector	Terminal		
M55	137	Ground	No
	139		

Is the inspection result normal?

YES >> Replace the USB interface. Refer to AV-929, "Removal and Installation".
NO >> Repair or replace harness or connectors.

FRONT CAMERA COMMUNICATION SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849960

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK COMMUNICATION SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and front camera connector E226.
3. Check continuity between around view monitor control unit connector M97 and front camera connector E226.

Around view monitor control unit		Front camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	67	E226	6	Yes

4. Check continuity between around view monitor control unit connector M97 and ground.

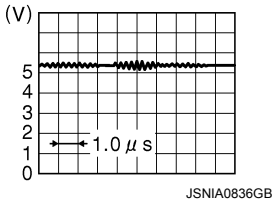
Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	67	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION SIGNAL

1. Connect around view monitor control unit connector M97 and front camera connector E226.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Condition	Reference value
(+)		(–)		
Connector	Terminal			
M97	67	—	CAMERA switch is ON or shift position is R.	

JSNIA0836GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".
NO >> Replace front camera. Refer to AV-933, "Removal and Installation".

FRONT CAMERA IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849961

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK FRONT CAMERA IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and front camera connector E226.
3. Check continuity between around view monitor control unit connector M97 and front camera connector E226.

Around view monitor control unit		Front camera		Continuity
Connector	Terminals	Connector	Terminals	
M97	71	E226	3	Yes
	72		4	

4. Check continuity between around view monitor control unit connector M97 and ground.

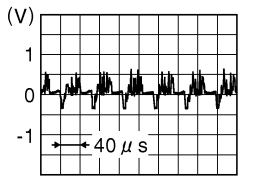
Around view monitor control unit		Ground	Continuity
Connector	Terminals		
M97	71	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK FRONT CAMERA IMAGE SIGNAL

1. Connect around view monitor control unit connector M97 and front camera connector E226.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 terminals.

Around view monitor control unit		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
71	72	CAMERA switch is ON or shift position is R.	

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Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".
NO >> Replace front camera. Refer to AV-933, "Removal and Installation".

REAR CAMERA COMMUNICATION SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849962

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK COMMUNICATION SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and rear view camera connector D511.
3. Check continuity between around view monitor control unit connector M97 and rear view camera connector D511.

Around view monitor control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	49	D511	4	Yes

4. Check continuity between around view monitor control unit connector M97 and ground.

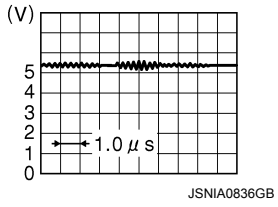
Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	49	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION SIGNAL

1. Connect around view monitor control unit connector M97 and rear view camera connector D511.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Condition	Reference value
(+)		(–)		
Connector	Terminal			
M97	49	—	CAMERA switch is ON or shift position is R.	

JSNIA0836GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".
NO >> Replace rear view camera. Refer to AV-934, "Removal and Installation".

REAR CAMERA IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849963

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and rear view camera connector D511.
3. Check continuity between around view monitor control unit connector M97 and rear view camera connector D511.

Around view monitor control unit		Rear view camera		Continuity
Connector	Terminals	Connector	Terminals	
M97	53	D511	5	Yes
	54		1	

4. Check continuity between around view monitor control unit connector M97 and ground.

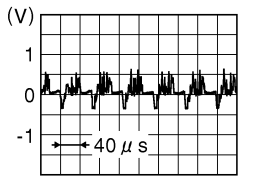
Around view monitor control unit		Ground	Continuity
Connector	Terminals		
M97	53	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK REAR VIEW CAMERA IMAGE SIGNAL

1. Connect around view monitor control unit connector M97 and rear view camera connector D511.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 terminals.

Around view monitor control unit		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
53	54	CAMERA switch is ON or shift position is R.	

JSNIA0834GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".
NO >> Replace rear view camera. Refer to AV-934, "Removal and Installation".

SIDE CAMERA LH COMMUNICATION SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849964

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK COMMUNICATION SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and LH side camera connector D20.
3. Check continuity between around view monitor control unit connector M97 and LH side camera connector D20.

Around view monitor control unit		LH side camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	55	D20	16	Yes

4. Check continuity between around view monitor control unit connector M97 and ground.

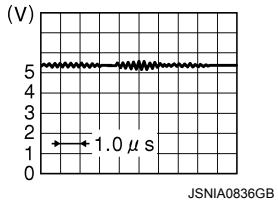
Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	55	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION SIGNAL

1. Connect around view monitor control unit connector M97 and LH side camera connector D20.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Condition	Reference value
(+)		(–)		
Connector	Terminal			
M97	55	—	CAMERA switch is ON or shift position is R.	

JSNIA0836GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".
NO >> Replace LH side camera. Refer to AV-935, "Removal and Installation".

SIDE CAMERA LH IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849965

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK LH SIDE CAMERA IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and LH side camera connector D20.
3. Check continuity between around view monitor control unit connector M97 and LH side camera connector D20.

Around view monitor control unit		LH side camera		Continuity
Connector	Terminals	Connector	Terminals	
M97	59	D20	5	Yes
	60		17	

4. Check continuity between around view monitor control unit connector M97 and ground.

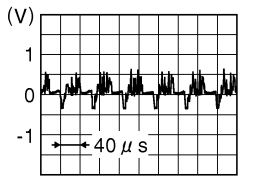
Around view monitor control unit		Ground	Continuity
Connector	Terminals		
M97	59	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK LH SIDE CAMERA IMAGE SIGNAL

1. Connect around view monitor control unit connector M97 and LH side camera connector D20.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 terminals.

Around view monitor control unit		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
59	60	CAMERA switch is ON or shift position is R.	

JSNIA0834GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".
NO >> Replace LH side camera. Refer to AV-935, "Removal and Installation".

SIDE CAMERA RH COMMUNICATION SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849966

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK COMMUNICATION SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and RH side camera connector D113.
3. Check continuity between around view monitor control unit connector M97 and fRH side camera connector D113.

Around view monitor control unit		RH side camera		Continuity
Connector	Terminal	Connector	Terminal	
M97	61	D113	16	Yes

4. Check continuity between around view monitor control unit connector M97 and ground.

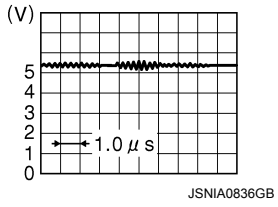
Around view monitor control unit		Ground	Continuity
Connector	Terminal		
M97	61	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK COMMUNICATION SIGNAL

1. Connect around view monitor control unit connector M97 and RH side camera connector D113.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 and ground.

Around view monitor control unit		Ground	Condition	Reference value
(+)		(–)		
Connector	Terminal			
M97	61	—	CAMERA switch is ON or shift position is R.	

JSNIA0836GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".
NO >> Replace RH side camera. Refer to AV-935, "Removal and Installation".

SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012849967

Regarding Wiring Diagram information, refer to AV-723, "Wiring Diagram".

1.CHECK RH SIDE CAMERA IMAGE SIGNAL CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector M97 and RH side camera connector D113.
3. Check continuity between around view monitor control unit connector M97 and fRH side camera connector D113.

Around view monitor control unit		RH side camera		Continuity
Connector	Terminals	Connector	Terminals	
M97	65	D113	5	Yes
	66		17	

4. Check continuity between around view monitor control unit connector M97 and ground.

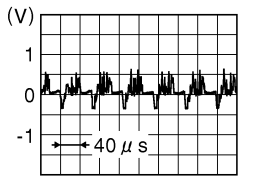
Around view monitor control unit		Ground	Continuity
Connector	Terminals		
M97	65	—	No

Is inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK RH SIDE CAMERA IMAGE SIGNAL

1. Connect around view monitor control unit connector M97 and RH side camera connector D113.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit connector M97 terminals.

Around view monitor control unit		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
65	66	CAMERA switch is ON or shift position is R.	 JSNIA0834GB

Is inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-932, "Removal and Installation".
NO >> Replace RH side camera. Refer to AV-935, "Removal and Installation".

SYMPTOM DIAGNOSIS

MULTI AV SYSTEM

Symptom Table

INFOID:0000000012849968

RELATED TO AUDIO

Symptoms	Check items	Probable malfunction location
The disk cannot be removed.	AV control unit	Malfunction in AV control unit. Refer to AV-670, "On Board Diagnosis Function".

Symptoms	Check items	Probable malfunction location
No sound comes out or the level of the sound is low.	No sound from all speakers.	• Speaker circuit shorted to ground. Refer to AV-723, "Wiring Diagram". • Bose amp. ON signal circuit malfunction. Refer to AV-818, "Description". • Bose speaker amp. power supply and ground circuits malfunction. Refer to AV-847, "BOSE AMP. : Diagnosis Procedure".
	Only a certain speaker (front door speaker LH, front door speaker RH, front tweeter LH, front tweeter RH, instrument panel tweeter LH, instrument panel tweeter RH, center speaker, rear door speaker LH, rear door speaker RH, rear door tweeter LH, rear door tweeter RH, rear side speaker LH, rear side speaker RH, subwoofer) does not output sound.	• Poor connector connection of speaker. • Sound signal circuit malfunction between AV control unit and Bose speaker amp. Refer to: - AV-861, "Diagnosis Procedure" (front door speaker). - AV-858, "Diagnosis Procedure" (front tweeter). - AV-855, "Diagnosis Procedure" (instrument panel tweeter). - AV-853, "Diagnosis Procedure" (center speaker). - AV-867, "Diagnosis Procedure" (rear door speaker). - AV-864, "Diagnosis Procedure" (rear door tweeter). - AV-870, "Diagnosis Procedure" (rear side speaker). - AV-873, "Diagnosis Procedure" (subwoofer). • Sound signal circuit malfunction between Bose speaker amp. and speaker. Refer to: - AV-861, "Diagnosis Procedure" (front door speaker). - AV-858, "Diagnosis Procedure" (front tweeter). - AV-855, "Diagnosis Procedure" (instrument panel tweeter). - AV-853, "Diagnosis Procedure" (center speaker). - AV-867, "Diagnosis Procedure" (rear door speaker). - AV-864, "Diagnosis Procedure" (rear door tweeter). - AV-870, "Diagnosis Procedure" (rear side speaker). - AV-873, "Diagnosis Procedure" (subwoofer). • Malfunction in speaker. Refer to: - AV-921, "Removal and Installation" (front door speaker). - AV-922, "Removal and Installation" (front tweeter). - AV-923, "Removal and Installation" (instrument panel tweeter). - AV-924, "Removal and Installation" (center speaker). - AV-925, "Removal and Installation" (rear door speaker). - AV-926, "Removal and Installation" (rear door tweeter). - AV-927, "Removal and Installation" (rear side speaker). - AV-928, "Removal and Installation" (subwoofer). • Malfunction in AV control unit. Refer to AV-670, "On Board Diagnosis Function". • Malfunction in Bose speaker amp. Replace Bose speaker amp. Refer to AV-920, "Removal and Installation".

Symptoms	Check items	Probable malfunction location
Noise is mixed with audio.	Noise comes out from all speakers.	• Malfunction in AV control unit. Refer to AV-670, "On Board Diagnosis Function". • Malfunction in Bose speaker amp. Replace Bose speaker amp. Refer to AV-920, "Removal and Installation".
	Noise comes out only from a certain speaker (front door speaker LH, front door speaker RH, front tweeter LH, front tweeter RH, instrument panel tweeter LH, instrument panel tweeter RH, center speaker, rear door speaker LH, rear door speaker RH, rear door tweeter LH, rear door tweeter RH, rear side speaker LH, rear side speaker RH, subwoofer).	• Poor connector connection of speaker. • Sound signal circuit malfunction between AV control unit and Bose speaker amp. Refer to: - AV-861, "Diagnosis Procedure" (front door speaker). - AV-858, "Diagnosis Procedure" (front tweeter). - AV-855, "Diagnosis Procedure" (instrument panel tweeter). - AV-853, "Diagnosis Procedure" (center speaker). - AV-867, "Diagnosis Procedure" (rear door speaker). - AV-864, "Diagnosis Procedure" (rear door tweeter). - AV-870, "Diagnosis Procedure" (rear side speaker). - AV-873, "Diagnosis Procedure" (subwoofer). • Sound signal circuit malfunction between Bose speaker amp. and speaker. Refer to: - AV-861, "Diagnosis Procedure" (front door speaker). - AV-858, "Diagnosis Procedure" (front tweeter). - AV-855, "Diagnosis Procedure" (instrument panel tweeter). - AV-853, "Diagnosis Procedure" (center speaker). - AV-867, "Diagnosis Procedure" (rear door speaker). - AV-864, "Diagnosis Procedure" (rear door tweeter). - AV-870, "Diagnosis Procedure" (rear side speaker). - AV-873, "Diagnosis Procedure" (subwoofer). • Malfunction in speaker. • Poor Installation of speaker (e.g. backlash and looseness). Refer to: - AV-921, "Removal and Installation" (front door speaker). - AV-922, "Removal and Installation" (front tweeter). - AV-923, "Removal and Installation" (instrument panel tweeter). - AV-924, "Removal and Installation" (center speaker). - AV-925, "Removal and Installation" (rear door speaker). - AV-926, "Removal and Installation" (rear door tweeter). - AV-927, "Removal and Installation" (rear side speaker). - AV-928, "Removal and Installation" (subwoofer). • Malfunction in AV control unit. Refer to AV-670, "On Board Diagnosis Function". • Malfunction in Bose speaker amp. Replace Bose speaker amp. Refer to AV-920, "Removal and Installation".
	Noise is mixed with radio only (when the vehicle hits a bump or while driving over bad roads)	Poor connector connection of antenna or antenna feeder. Refer to AV-945, "Location of Antennas".

Symptoms	Check items	Probable malfunction location
No radio reception or poor reception.	• Other audio sounds are normal. • Any radio station cannot be received or poor reception is caused even after moving to a service area with good reception (e.g. a place with clear view and no obstacles generating external noises).	• Antenna amp. ON signal circuit malfunction. Refer to AV-817, "Diagnosis Procedure". • Poor connector connection of antenna or antenna feeder. Refer to AV-945, "Location of Antennas".
No satellite radio reception.	There is malfunction in the CONSULT self diagnosis result. Refer to AV-683, "CONSULT Function".	• Malfunction in antenna, antenna feeder or AV control unit. Perform DTC diagnosis. Refer to AV-683, "CONSULT Function". • Poor continuity in antenna feeder. • Poor connector connection of antenna or antenna feeder. Refer to AV-945, "Location of Antennas".
	There is no malfunction in the CONSULT self diagnosis result. Refer to AV-683, "CONSULT Function".	• Poor continuity in antenna feeder. • Poor connector connection of antenna or antenna feeder. • Loose satellite radio antenna mounting nut. Refer to AV-945, "Location of Antennas".
Buzz/rattle sound from speaker	The majority of buzz/rattle sounds are not indicative of an issue with the speaker, usually something nearby the speaker is causing the buzz/rattle.	Refer to "SQUEAK AND RATTLE TROUBLE DIAGNOSIS" in the appropriate interior trim section.

RELATED TO HANDS-FREE PHONE

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.	Malfunction in AV control unit. Replace AV control unit. Refer to AV-914, "Removal and Installation".
Hands-free phone cannot be established.	• 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.	
The other party's voice cannot be heard by hands-free phone.	Check the "microphone speaker" in Inspection & Adjustment Mode if sound is heard.	
Originating sound is not heard by the other party with hands-free phone communication.	Sound operation function is normal.	
	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to AV-884, "Diagnosis Procedure".
The system cannot be operated.	• The voice recognition can be controlled. • Steering switch's +, −, and switch works, but does not work.	Steering switch malfunction. Replace steering switch. Refer to AV-918, "Removal and Installation".
	Steering switch's , +, −, and switches do not work.	Steering switch signal circuit malfunction. Refer to AV-886, "Diagnosis Procedure".
	All steering switches do not work.	Steering switch ground circuit malfunction. Refer to AV-886, "Diagnosis Procedure".

RELATED TO NAVIGATION

Symptoms	Check items	Probable malfunction location
Navigation system is inoperative.	Navigation malfunction.	• Malfunction in hard disk drive (HDD). • Malfunction in AV control unit. Refer to AV-670, "On Board Diagnosis Function".
	Steering switches malfunction.	Steering switch signal circuit malfunction. Refer to AV-886, "Diagnosis Procedure".
	Voice activated control malfunction.	Microphone signal circuit malfunction. Refer to AV-884, "Diagnosis Procedure". Steering switch signal circuit malfunction. Refer to AV-886, "Diagnosis Procedure".

RELATED TO AROUND VIEW MONITOR

Symptoms	Check items	Probable malfunction location
Display does not switch to camera image when “CAMERA” switch is pressed or selector lever is in R (reverse).	Around view monitor control unit malfunction.	Around view monitor control unit power supply and ground circuits malfunction. Refer to AV-850, "AROUND VIEW MONITOR CONTROL UNIT : Diagnosis Procedure".
	AV communication circuits malfunction.	AV communication circuits malfunction between around view monitor control unit and AV control unit. Refer to AV-715, "Reference Value".
	Camera image signal circuit (output) malfunction.	Camera image signal circuit (output) malfunction between around view monitor control unit and display unit. Refer to AV-715, "Reference Value".
Display switches to camera image when “CAMERA” switch is pressed or selector lever is in R (reverse), but all views are not displayed.	Camera image signal circuit (input) malfunction.	Camera image signal circuit (input) malfunction between camera and around view monitor control unit. Refer to: • AV-890, "Diagnosis Procedure" (front camera). • AV-892, "Diagnosis Procedure" (rear view camera). • AV-894, "Diagnosis Procedure" (side camera LH). • AV-896, "Diagnosis Procedure" (side camera RH).
	Camera communication signal circuits malfunction.	Camera communication circuits malfunction between camera and around view monitor control unit. Refer to: • AV-889, "Diagnosis Procedure" (front camera). • AV-891, "Diagnosis Procedure" (rear view camera). • AV-893, "Diagnosis Procedure" (side camera LH). • AV-895, "Diagnosis Procedure" (side camera RH).
Camera image is rolling.	Camera image signal circuit (output) malfunction.	Camera image signal circuit (output) malfunction between around view monitor control unit and display unit. Refer to AV-715, "Reference Value".
Display does not switch to rear view monitor even when selector lever is in R (reverse).	Reverse signal circuit malfunction.	Reverse signal circuit between BCM and around view monitor control unit. Refer to AV-715, "Reference Value".
Predicted course line display in front view and rear view is malfunctioning.	Steering angle sensor malfunction.	Predicted course line center position is malfunctioning. Refer to AV-778, "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Work Procedure".

Symptoms	Check items	Probable malfunction location
Front view and front of birds-eye view is not displayed.	Front camera malfunction.	Front camera power supply and ground circuits malfunction. Refer to AV-820, "Diagnosis Procedure".
	Front camera image signal circuit malfunction.	Front camera image signal circuit malfunction between front camera and around view monitor control unit. Refer to AV-890, "Diagnosis Procedure".
	Front camera communication signal circuit malfunction.	Front camera communication signal circuit malfunction between front camera and around view monitor control unit. Refer to AV-889, "Diagnosis Procedure".
Rear view and rear of birds-eye view is not displayed.	Rear view camera malfunction.	Rear view camera power supply and ground circuits malfunction. Refer to AV-820, "Diagnosis Procedure".
	Rear view camera image signal circuit malfunction.	Rear view camera image signal circuit malfunction between rear view camera and around view monitor control unit. Refer to AV-892, "Diagnosis Procedure".
	Rear view camera communication signal circuit malfunction.	Rear view camera communication signal circuit malfunction between rear view camera and around view monitor control unit. Refer to AV-891, "Diagnosis Procedure".
Front-side and driver side of birds-eye view is not displayed.	Side camera LH malfunction.	Side camera LH power supply and ground circuits malfunction. Refer to AV-820, "Diagnosis Procedure".
	Side camera LH image signal circuit malfunction.	Side camera LH image signal circuit malfunction between side camera LH and around view monitor control unit. Refer to AV-894, "Diagnosis Procedure".
	Side camera LH communication signal circuit malfunction.	Side camera LH communication signal circuit malfunction between side camera LH and around view monitor control unit. Refer to AV-893, "Diagnosis Procedure".
Front-side and passenger side of birds-eye view is not displayed.	Side camera RH malfunction.	Side camera RH power supply and ground circuits malfunction. Refer to AV-820, "Diagnosis Procedure".
	Side camera RH image signal circuit malfunction.	Side camera RH image signal circuit malfunction between side camera RH and around view monitor control unit. Refer to AV-896, "Diagnosis Procedure".
	Side camera RH communication signal circuit malfunction.	Side camera RH communication signal circuit malfunction between side camera RH and around view monitor control unit. Refer to AV-895, "Diagnosis Procedure".
Selector lever is in a position other than R (reverse) and front, rear, front-side and Birds-Eye views are displayed even as vehicle speed increases.	Vehicle speed signal malfunction.	Vehicle speed signal malfunction between ABS actuator and electric unit (control unit) and around view monitor control unit. Refer to LAN-28, "Trouble Diagnosis Flow Chart".

RELATED TO CAMERA ASSISTANCE SONAR

Symptoms	Check items	Probable malfunction location
Malfunction is detected in only 1 indicator (Always displayed in red).	Sonar sensor circuit malfunction.	Sonar sensor circuit malfunction between sonar sensor and sonar control unit. Refer to: • AV-843, "Diagnosis Procedure" (front LH inner). • AV-844, "Diagnosis Procedure" (front RH inner). • AV-842, "Diagnosis Procedure" (front LH outer). • AV-845, "Diagnosis Procedure" (front RH outer). • AV-836, "Diagnosis Procedure" (rear LH inner). • AV-837, "Diagnosis Procedure" (rear RH inner). • AV-835, "Diagnosis Procedure" (rear LH outer). • AV-838, "Diagnosis Procedure" (rear RH outer).
	Sonar sensor malfunction.	• Malfunction in sonar sensor. Refer to AV-942, "Removal and Installation". • Front license plate (if equipped) is bent and obstructing the sensor area.
Malfunction is detected in all 5 indicators (Always displayed in red).	Sonar control unit malfunction.	Sonar control unit power supply and ground circuits malfunction. Refer to AV-851, "SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : Diagnosis Procedure".
	CAN communication malfunction.	CAN communication malfunction between sonar control unit and combination meter. Refer to LAN-28, "Trouble Diagnosis Flow Chart".

RELATED TO REAR DISPLAY (HEADREST-MOUNTED)

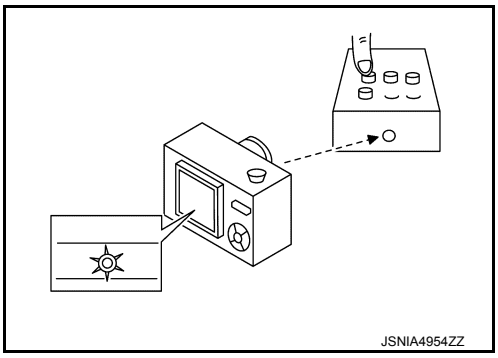
Perform diagnosis of the power supply and ground circuits of the following items before starting diagnosis by symptom:

- Video distributor. Refer to AV-849, "VIDEO DISTRIBUTOR : Diagnosis Procedure".
- Headrest display unit. Refer to AV-850, "HEADREST DISPLAY UNIT : Diagnosis Procedure".

Symptom	Check item		Possible malfunction location/Action to take
Video is not shown on the headrest display unit screen.	Use the touch button in front display to switch video images on the headrest display unit.	Video is shown.	Operate with the remote to see if videos can be switched.
		Video is not shown.	Replace headrest display unit. Refer to AV-938, "Removal and Installation".
Video is not shown on the headrest display unit (passenger seat). Headrest display unit (driver seat) is normal.	Perform “AV Comm Diagnosis” within “On Board Diagnosis Function”. Refer to AV-670, "On Board Diagnosis Function".		• AV communication circuits between headrest display unit (driver seat) and headrest display unit (passenger seat). • Replace headrest display unit. Refer to AV-938, "Removal and Installation".
Headrest display unit inoperative with the remote.	All keys inoperative.	• Check battery polarity. • Replace battery.	• Check with a remote from the same vehicle family. • Check infrared* of the luminescent part (LED) of the remote.
	Some keys inoperative.	• Check with a remote from the same vehicle family. • Check infrared* of the luminescent part (LED) of the remote.	The function corresponding to the remote operation is not included (this is not a malfunction).
Headrest display unit screen is black.	Play a DVD.	Video is not shown.	Switch from AUX mode to DVD mode and check video.
		Screen is dark.	Adjust screen for image quality (this is not a malfunction).
		Screen is black.	Replace headrest display unit. Refer to AV-938, "Removal and Installation".

Symptom	Check item	Possible malfunction location/Action to take
Video shown on headrest display unit screen becomes distorted or rolls up/down	Adjust the color settings using the display screen menu items.	If the symptom does not change, replace headrest display unit. Refer to AV-938, "Removal and Installation".
Headrest display unit screen is blue.	—	Replace headrest display unit. Refer to AV-938, "Removal and Installation".

*: To check infrared, check light of the luminescent part (LED) through the lens of digital camera when operating the remote.



RELATED TO HEADPHONES (HEADREST-MOUNTED)

Symptom	Check item		Possible malfunction location/Action to take
Audio cannot be heard from headphones.	• Turn ON the headrest display unit. • Switch the slide switch on the left side of the headphones.	Audio cannot be heard.	Check power supply of headphones.
Headphones cannot be turned ON.	• Battery polarity. • Battery poor contact. • Battery replacement.	Power is ON (power indicator lamp: ON).	This is not a malfunction.
		Power cannot be turned ON (power indicator lamp: OFF).	Replace headphones.

NORMAL OPERATING CONDITION

Description

INFOID:0000000012849969

RELATED TO NOISE

The majority of the audio concerns are the result of outside causes (bad CD, electromagnetic interference, etc.).
The following noise results from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources. It is not a malfunction.

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from the waves sent directly from the broadcast station arriving at the antenna at a different time from the waves which reflect off mountains or buildings.

The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check if noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment, and determine the cause.

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

Type of Noise and Possible Cause

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

RELATED TO HANDS-FREE PHONE

Symptom	Cause and Counter measure
Does not recognize cellular phone connection (No connection is displayed on the display at the guide).	Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module. Refer to “RELATED TO HANDS-FREE PHONE (Check Compatibility)” in AV-897, "Symptom Table".
Cannot use hands-free phone.	Customer will not be able to use a hands-free phone under the following conditions: • The vehicle is outside of the telephone service area. • The vehicle is in an area where it is difficult to receive radio waves; such as in a tunnel, in an underground parking garage, near a tall building or in a mountainous area. • The cellular phone is locked to prevent it from being dialed. **NOTE:** While a cellular phone is connected through the Bluetooth® wireless connection, the battery power of the cellular phone may discharge quicker than usual. The Bluetooth® Hands-Free Phone System cannot charge cellular phones.

Symptom	Cause and Counter measure
The other party's voice cannot be heard by hands-free phone.	When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person's voice during a call.
Poor sound quality.	Do not place the cellular phone in an area surrounded by metal or far away from the in-vehicle phone module to prevent tone quality degradation and wireless connection disruption.

RELATED TO NAVIGATION

Basic Operation

Symptom	Cause	Remedy
No image is shown.	Display brightness adjustment is set fully to DARK side.	Adjust the display brightness.
No guide sound is heard. Audio guide volume is too low or too high.	Volume control is set to OFF, MIN or MAX.	Adjust the audio guide volume.
	Audio guidance is not available while the vehicle is driving on a dark pink route.	System is not malfunctioning.
Screen is too dark. Motion of the image is too slow.	Temperature inside the vehicle is low.	Wait until the temperature inside the vehicle reaches the proper temperature.
Small black or bright spots appear on the screen.	Symptom peculiar to a liquid crystal display (display unit).	System is not malfunction.

Vehicle Mark

Symptom	Cause	Remedy
Map screen and BIRDVIEW™ Name of the place vary with the screen.	Some thinning of the character data is done to prevent the display becoming to complex. In some cases and in some locations, the display contents may differ. The same place name, street name, etc. may not be displayed every time on account of the data processing.	System is not malfunctioning.
Vehicle mark is not positioned correctly.	Vehicle is transferred by ferry or by towing after its ignition switch is turned to OFF.	Drive the vehicle for a while in the GPS satellite signal receiving condition.
Screen will not switch to nighttime mode after the lighting switch is turned ON.	The daytime screen is selected by the "SWITCH SCREENS" when the last time the screen dimming setting is done. Switching between daytime/nighttime screen may be inhibited by the automatic illumination adjustment function.	Perform screen dimming and select the nighttime screen by "SWITCH SCREENS".
Map screen will not scroll in accordance with the vehicle travel.	Current location is not displayed.	Press "MAP" button to display the current location.
Vehicle mark will not be shown.	Current location is not displayed.	Press "MAP" button to display the current location.
Accuracy indicator (GPS satellite mark) on the map screen stays gray.	GPS satellite signal is intercepted because the vehicle is in or behind a building.	Move the vehicle out to an open space.
	GPS satellite signal cannot be received because an obstacle is placed on top of the instrument panel.	Do not place anything on top of the meter display (instrument panel).
	GPS satellites are not visible from current location.	Wait until GPS satellites are visible by moving the vehicle.

Symptom	Cause	Remedy
Vehicle location accuracy is low.	Accuracy indicator (GPS satellite mark) on the map screen stays gray.	Current location is not determined.
	Vehicle speed setting by the vehicle speed pulse has been deviated (advanced or retarded) from the actual vehicle speed because tire chain is fitted or the system has been used on another vehicle.	Drive the vehicle for a while [for approx. 30 minutes at approx. 30 km/h (19 MPH)] and the deviation will be automatically adjusted. If advancement or retard still occur, perform the distance adjustment by CONFIRMATION/ADJUSTMENT mode of diagnosis function.
	Map data has error or omission. (Vehicle mark is always deviated to the same position.)	As a rule, an updated map DVD–ROM will be released once a year.

Destination, Passing Points and Menu Items Cannot be Selected/Set

Symptom	Cause	Remedy
Destination cannot be set.	Destination to be set is on an expressway.	Set the destination on an ordinary road.
Passing point is not searched when re-searching the route.	The vehicle has already passed the passing point, or the system judged so.	To include the passing points that have been passed into the route again, set the route again.
Route information will not be displayed.	Route searching has not been done.	Set the destination and perform route searching.
	Vehicle mark is not on the recommended route.	Drive on the recommended route.
	Route guide is turned OFF.	Turn route guide ON.
	Route information is not available on the dark pink route.	System is not malfunctioning.
After the route searching, no guide sign will appear as the vehicle goes near the entrance/exit to the toll road.	Vehicle mark is not on the recommended route. (On the display, only guide signs related to the recommended route will be shown.)	Drive on the recommended route.
Automatic route searching is not possible.	Vehicle is driving on a highway (gray route), or no recommended route is available.	Drive on a road to be searched. Or re–search the route manually. In this case, however, the whole route will be searched.
Performed automatic detour search (or detour search). However, the result is the same as that of the previous search.	Performed search with every conditions considered. However, the result is the same as that of the previous search.	System is not malfunctioning.
Passing points cannot be set.	More than five passing points were set.	Passing points can be set up to five. To stop at more than five points, perform sharing in several steps.
When setting the route, the starting point cannot be selected.	The current vehicle location is always set as the starting point of a route.	System is not malfunctioning.
Some menu items cannot be selected.	The vehicle is being driven.	Stop the vehicle at a safe place and then operate the system.

Voice Guide

Symptom	Cause	Remedy
Voice guide will not operate.	Note: Voice guide is only available at intersections that satisfy certain conditions (indicated by ● on the map). Therefore, guidance may not be given even when the route on the map changes direction.	System is not malfunctioning.
	The vehicle is not on the recommended route.	Return to the recommended route or re-search the route.
	Voice guide is turned OFF.	Turn voice guide ON.
	Route guide is turned OFF.	Turn route guide ON.
Voice guide does not match the actual road pattern.	Voice guide may vary with the direction to which the vehicle is turn and the connection of the road to other roads.	Drive in conformity to the actual traffic rules.

Route Search

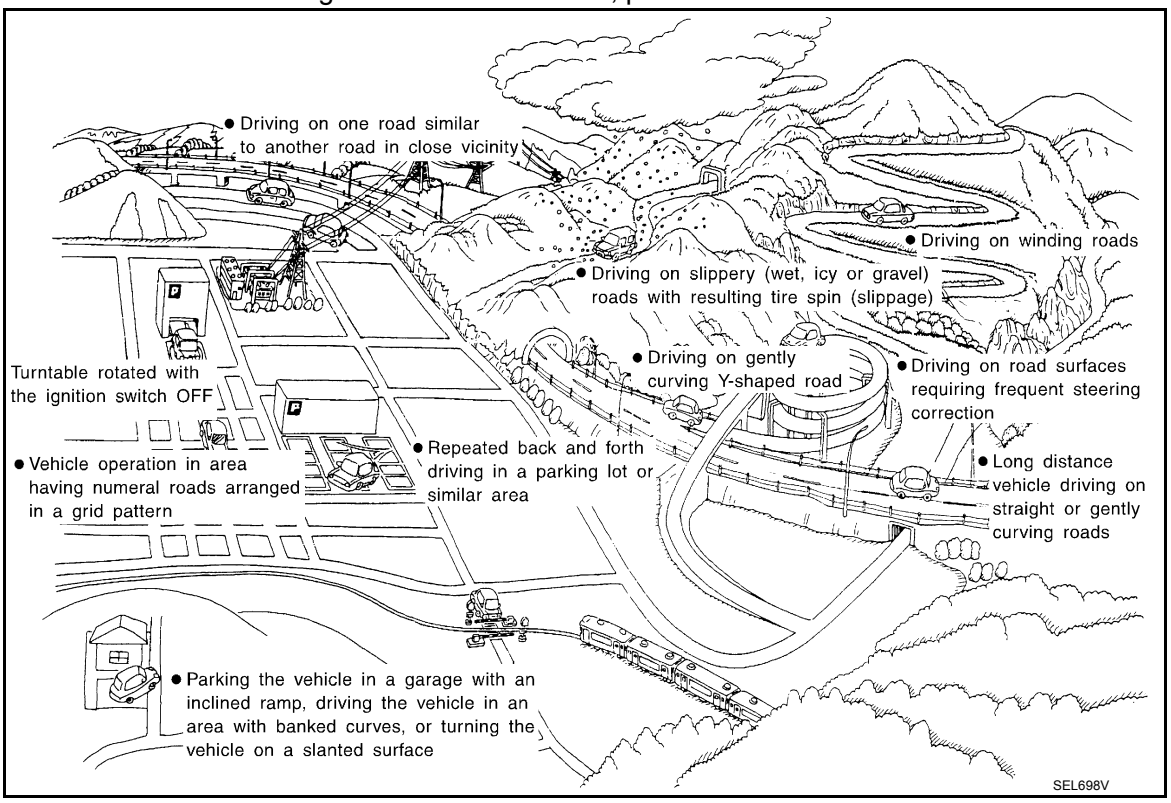
Symptom	Cause	Remedy
No route is shown.	No road to be searched is found around the destination.	Find wider road (orange road or wider) nearby and reset the destination and passing points onto it. Take care of the traveling direction when there are separate up and down roads.
	Starting point and the destination are too close.	Set the destination at more distant point.
	Conditional traffic regulation (day of the week/ time of the day) is set at the area around the current location or the destination.	Turn the time-regulating search conditions OFF. Turn “Avoid regulation time” in the search conditions OFF.
Indicated route is intermittent.	In some areas, highways (gray routes) are not used for the search(Note)Therefore, the route to the current location or the passing points may be intermittent.	System is not malfunctioning.
When the vehicle has passed the recommended route, it is deleted from the screen.	A recommended route is controlled by each section. When the vehicle has passed the passing point 1, then the map data from the starting point up to the passing point 1 will be deleted. (The data may remain undeleted in some area.)	System is not malfunctioning.
Detouring route is recommended.	In some areas, highways (gray routes) are not used for the search. (Note). Therefore, detour route may be recommended.	Set the route closer to the basic route (gray route).
	A detour route may be shown when some traffic regulation (one-way traffic, etc.) is set at the area around the starting point or the destination.	Slightly move the starting point or the destination, or set the passing point on the route of your choice.
	In the area where highways (gray routes) are used for the search, left turn has priority around the current location and the destination (passing points). For this reason, the recommended route may be detouring.	System is not malfunctioning.
Landmarks on the map do not match the actual ones.	This can be happen due to omission or error in the map data.	As a rule, an updated map DVD-ROM will be released once a year. Wait until the latest map has become available.
Recommended route is far from the starting point, passing points, and destination.	Starting point, passing points, and destination of the route guide were set far from the desired points because route searching data around these area were not stored.	Reset the destination onto the road nearby. If this road is one of the highways (gray routes), an ordinary road nearby may be displayed as the recommended route.

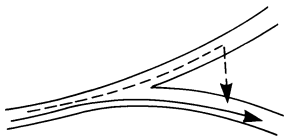
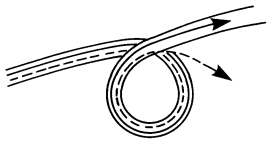
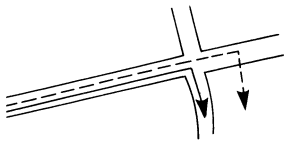
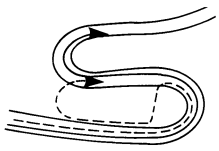
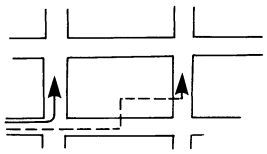
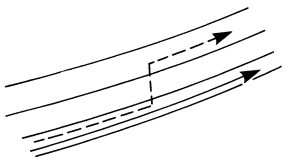
NOTE:

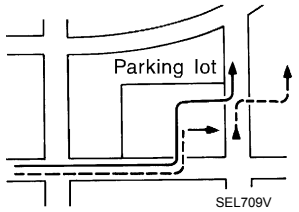
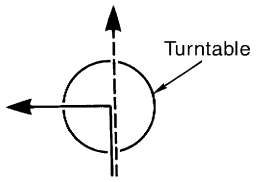
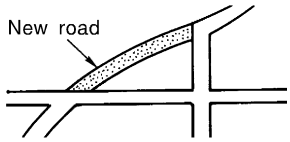
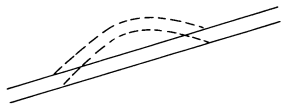
Except for the ordinance-designated cities. (Malfunctioning areas may be changed in the updated map disc.)

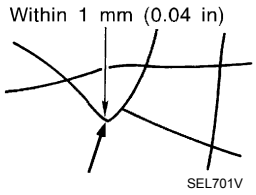
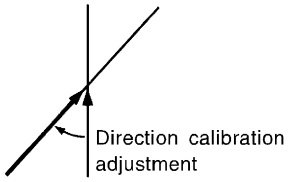
Examples of Current-Location Mark Displacement

Vehicle's travel amount is calculated by reading its travel distance and turning angle. Therefore, if the vehicle is driven in the following manner, an error will occur in the vehicle's current location display. If correct location has not been restored after driving the vehicle for a while, perform location correction.



Cause (condition) –: While driving ooo: Display		Driving condition	Remarks (correction, etc.)
Road configuration	Y–intersections  ELK0192D	At a Y intersection or similar gradual division of roads, an error in the direction of travel deduced by the sensor may result in the current-location mark appearing on the wrong road.	If after travelling about 10 km (6 miles) the correct location has not been restored, perform location correction and, if necessary, direction correction.
	Spiral roads  ELK0193D	When driving on a large, continuous spiral road (such as loop bridge), turning angle error is accumulated and the vehicle mark may deviate from the correct location.	
	Straight roads  ELK0194D	When driving on a long, straight road and slow curve without stopping, map-matching does not work effectively enough and distance errors may accumulate. As a result, the vehicle mark may deviate from the correct location when the vehicle is turned at a corner.	
	Zigzag roads  ELK0195D	When driving on a zigzag road, the map may be matched to other roads in the similar direction nearby at every turn, and the vehicle mark may deviate from the correct location.	
	Roads laid out in a grid pattern  ELK0196D	When driving where roads are laid out in a grid pattern, or where many roads are running in the similar direction nearby, the map may be matched to them by mistake and the vehicle mark may deviate from the correct location.	
	Parallel roads  ELK0197D	When two roads are running in parallel (such as highway and sideway), the map may be matched to the other road by mistake and the vehicle mark may deviate from the correct location.	

Cause (condition) –: While driving ooo: Display		Driving condition	Remarks (correction, etc.)
Place	In a parking lot  SEL709V	When driving in a parking lot, or other location where there are no roads on the map, matching may place the vehicle mark on a nearby road. When the vehicle returns to the road, the vehicle mark may have deviated from the correct location. When driving in circle or turning the steering wheel repeatedly, direction errors accumulate, and the vehicle mark may deviate from the correct location.	If after travelling about 10 km (6 miles) the correct location has not been restored, perform location correction and, if necessary, direction correction.
	Turntable  SEL710V	When the ignition switch is OFF, the navigation system cannot get the signal from the gyroscope (angular speed sensor). Therefore, the displayed direction may be wrong and the correct road may not be easily returned to after rotating the vehicle on a turntable with the ignition OFF.	
	Slippery roads	On snow, wet roads, gravel, or other roads where tires may slip easily, accumulated mileage errors may cause the vehicle mark to deviate from the correct road.	
	Slopes	When parking in sloped garages, when travelling on banked roads, or in other cases where the vehicle turns when tilted, an error in the turning angle will occur, and the vehicle mark may deviate from the road.	
Map data	Road not displayed on the map screen  SEL699V	When driving on new roads or other roads not displayed on the map screen, map matching does not function correctly and matches the location to a nearby road. When the vehicle returns to a road which is on the map, the vehicle mark may deviate from the correct road.	
	Different road pattern (Changed due to repair)  ELK0201D	If the road pattern stored in the map data and the actual road pattern are different, map matching does not function correctly and matches the location to a nearby road. The vehicle mark may deviate from the correct road.	
Vehicle	Use of tire chains	When tire chains are used, the mileage is not correctly detected, and the vehicle mark may deviate from the correct road.	Drive the vehicle for a while. If the distance still deviates, adjust it by using the distance adjustment function. (If the tire chain is removed, recover the original value.)

Cause (condition) –: While driving ooo: Display		Driving condition	Remarks (correction, etc.)
Precautions for driving	Just after the engine is started	If the vehicle is driven just after the engine is started when the gyroscope (angular speed sensor) correction is not completed, the vehicle can lose its direction and may have deviated from the correct location.	Wait for a short while before driving after starting the engine.
	Continuous driving without stopping	When driving long distances without stopping, direction errors may accumulate, and the current-location mark may deviate from the correct road.	Stop and adjust the orientation.
	Abusive driving	Spinning the wheels or engaging in other kinds of abusive driving may result in the system being unable perform correct detection, and may cause the vehicle mark to deviate from the correct road.	If after travelling about 10 km (6 miles) the correct location has not been restored, perform location correction and, if necessary, direction correction.
How to correct location	Position correction accuracy  SEL701V	If the accuracy of location settings is poor, accuracy may be reduced when the correct road cannot be found, particularly in places where there are many roads.	Enter in the road displayed on the screen with an accuracy of approx. 1mm. Caution: Whenever possible, use detailed map for the correction.
	Direction when location is corrected  SEL702V	If the accuracy of location settings during correction is poor, accuracy may be reduced afterwards.	Perform direction correction.

Location Correction by Map-Matching is Slow
- The map-matching function needs to refer to the data of the surrounding area. It is necessary to drive some distance for the function to work.
- Because map-matching operates on this principle, when there are many roads running in similar directions in the surrounding area, no matching determination may be made. The location may not be corrected until some special feature is found.

Name of Road is Not Displayed
The current road name may not be displayed if there are no road names displayed on the map screen.

Contents of Display Differ for Birdview™ and the (Flat) Map Screen
Difference of the BIRDVIEW™ screen from the flat map screen are as follows.
- The current place name displays names which are primarily in the direction of vehicle travel.
- The amount of time before the vehicle travel or turn angle is updated on the screen is longer than for the (flat) map display.
- The conditions for display of place names, roads, and other data are different for nearby areas and for more distant areas.
- Some thinning of the character data is done to prevent the display becoming too complex. In some cases and in some locations, the display contents may differ.
- The same place name, street name, etc. may be displayed multiple times.

Vehicle Mark Shows a Position Which is Completely Wrong
In the following cases, the vehicle mark may appear on completely different position in the map depending on the GPS satellite signal receiving conditions. In this case, perform location correction and direction correction.
- When location correction has not been done
  - If the receiving conditions of the GPS satellite signal is poor, if the vehicle mark becomes out of place, it may move to a completely different location and not come back if location correction is not done. The position will be corrected if the GPS signal can be received.
- When the vehicle has traveled by ferry, or when the vehicle has been being towed

- Because calculation of the current location cannot be done when traveling with the ignition off, for example when traveling by ferry or when being towed, the location before travel is displayed. If the precise location can be detected with GPS, the location will be corrected.

Vehicle Mark Jumps

In the following cases, the vehicle mark may appear to jump as a result of automatic correction of the current location.

• When map matching has been done
- If the current location and the vehicle mark are different when map matching is done, the vehicle mark may seem to jump. At this time, the location may be “corrected” to the wrong road or to a location which is not on a road.
• When GPS location correction has been done
- If the current location and the vehicle mark are different when the location is corrected using GPS measurements, the vehicle mark may seem to jump. At this time, the location may be “corrected” to a location which is not on a road.

Vehicle Mark is in a River or Sea

The navigation system moves the vehicle mark with no distinction between land and rivers or sea. If the vehicle mark is somehow out of place, it may appear that the vehicle is driving in a river or the sea.

Vehicle Mark Automatically Rotates

The system wrongly memorizes the rotating status as stopping when the ignition switch is turned ON with the turntable rotating. That causes the vehicle mark to rotate when the vehicle is stopped.

When Driving on Same Road, Sometimes Vehicle Mark is in Right Place and Sometimes it is in Wrong Place

The conditions of the GPS antenna (GPS data) and gyroscope (angular speed sensor) change gradually. Depending on the road traveled and the operation of the steering wheel, the location detection results will be different. Therefore, even on a road on which the location has never been wrong, conditions may cause the vehicle mark to deviate.

RELATED TO SONAR

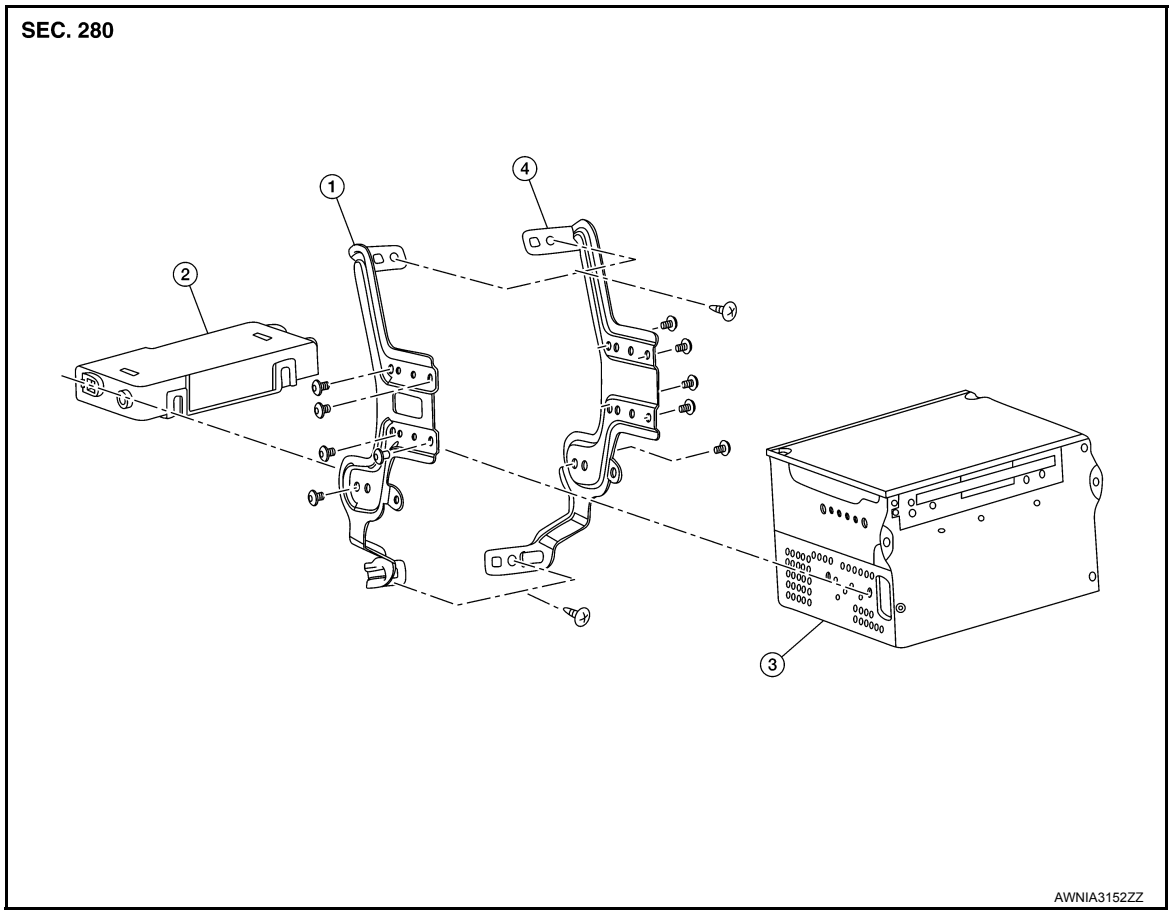
Symptom	Possible cause
Unstable object detection	• The vehicle is on a rough surface, such as stone or gravel. • When used in poor weather conditions, such as heavy snow/rain strong wind. • When subjected to an ultrasonic noise generated from exhaust muffler or brakes. • When left standing in the hot sun or in a cold climate. • When the surface of the sensor is frozen or covered with snow/dirt/moisture. • When a retrofitted xenon lamp, lighted license plate, or harness is close to the sensor body or sensor harness. • When subjected to loop coil noises generated from a vehicle detector placed at an intersection or coin parking area. • When front license plate (if equipped) is bent and obstructing the sensor detection area.
Object undetectable	• Air-containing objects, such as cloth, cotton, glass wool, dust, and snow. • Thin objects, such as rope, chain and wire. • Smooth-faced objects placed in a slanting direction. • Fast-moving small animals. • A corner of an angular object. **NOTE:** If the sensor detection part is scratched, obstacles cannot be detected.

REMOVAL AND INSTALLATION

AV CONTROL UNIT

Exploded View

INFOID:0000000012849970



1. AV control unit bracket (LH)
2. A/C auto amp.
3. AV control unit
4. AV control unit bracket (RH)

Removal and Installation

INFOID:0000000012849971

REMOVAL

CAUTION:

- **Remove battery terminal and AV control unit after a lapse of 30 seconds or more after turning the ignition switch OFF.**
- **Before replacing AV control unit, perform "READ CONFIGURATION" to save current vehicle specification. Refer to AV-772, "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description".**

NOTE:

After the ignition switch is turned OFF, the AV control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

1. Disconnect the negative battery terminal. Refer to PG-147, "Removal and Installation".
2. Remove cluster lid C upper. Refer to IP-23, "CLUSTER LID C UPPER : Removal and Installation".
3. Remove the screws, then pull out the AV control unit.
4. Disconnect the harness connectors from the AV control unit and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **When replacing AV control unit, perform "WRITE CONFIGURATION". Refer to AV-77, "CONFIGURATION (AV CONTROL UNIT) : Description".**

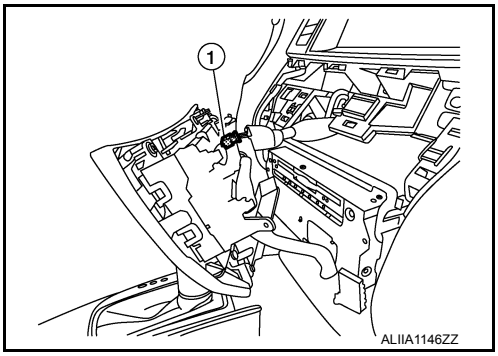
MULTIFUNCTION SWITCH

Removal and Installation

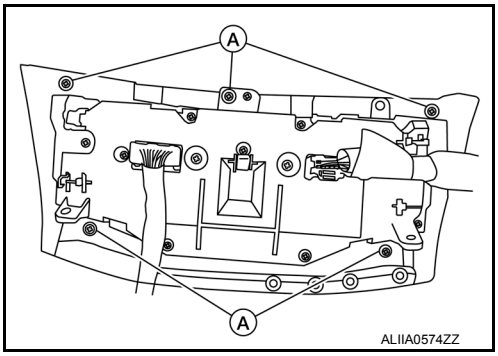
INFOID:0000000013523306

REMOVAL

1. Remove preset switch. Refer to AV-917, "Removal and Installation".
2. Remove screws securing multifunction switch.
3. Release pawls and detach multifunction switch using suitable tool.
4. Disconnect harness connector (1) from multifunction switch.



5. Remove multifunction switch from instrument panel assembly.
6. Remove screws (A) securing multifunction switch.



INSTALLATION

Installation is in the reverse order of removal.

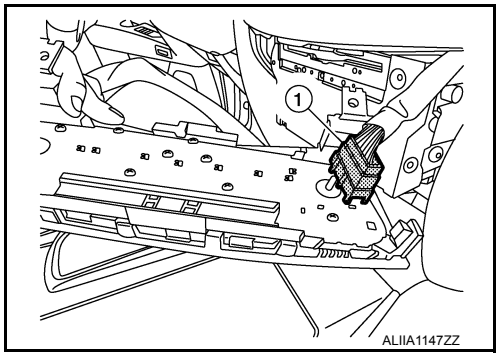
PRESET SWITCH

Removal and Installation

INFOID:0000000013523307

REMOVAL

1. Remove cluster lid C lower. Refer to IP-22, "CLUSTER LID C LOWER : Removal and Installation".
2. Remove cluster lid C. Refer to IP-22, "CLUSTER LID C : Removal and Installation".
3. Remove preset switch lower screws.
4. Release pawls and detach preset switch from instrument panel assembly using suitable tool.
5. Disconnect harness connector (1) from preset switch.



6. Remove preset switch from instrument panel assembly.

INSTALLATION

Installation is in the reverse order of removal.

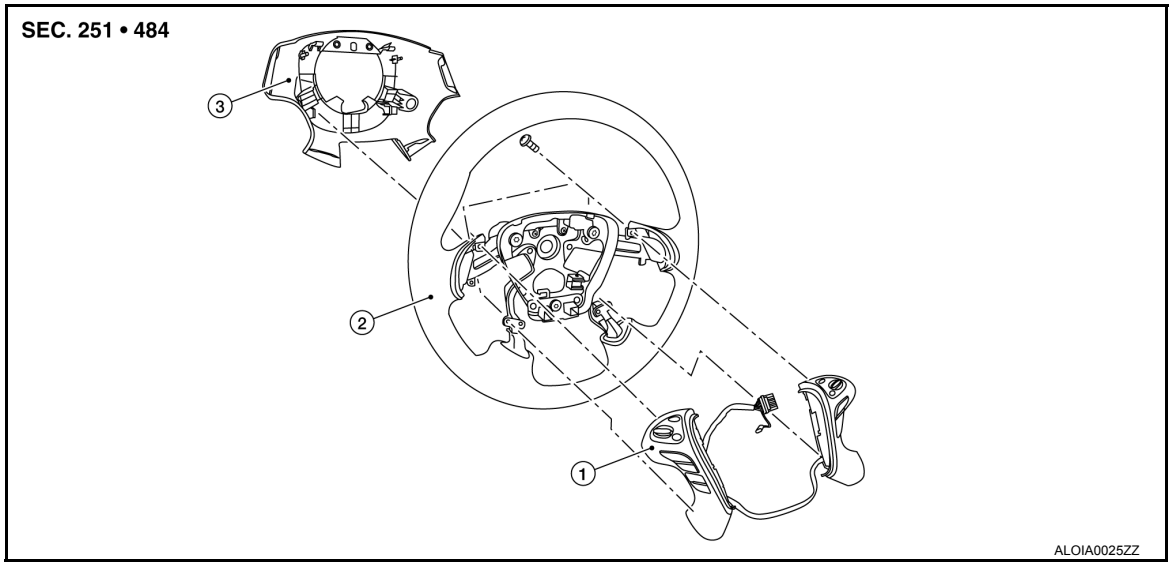
CAUTION:

When replacing preset switch, perform "Write Configuration". Refer to AV-772, "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description" and AV-773, "CONFIGURATION (AV CONTROL UNIT) : Description".

STEERING SWITCH

Exploded View

INFOID:0000000012849973



1. Steering switch
2. Steering wheel
3. Steering wheel rear finisher

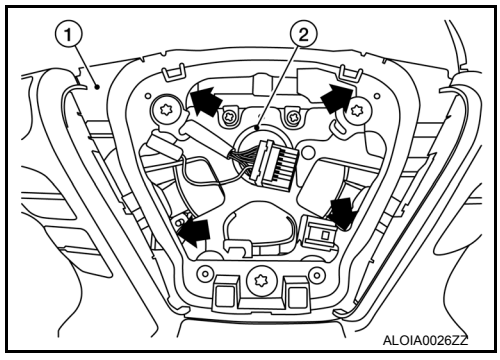
Removal and Installation

INFOID:0000000012849974

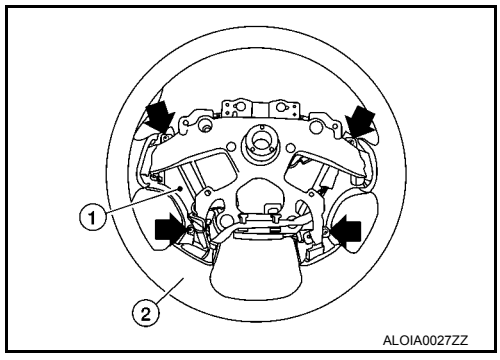
REMOVAL

NOTE:
The steering switch is serviced as an assembly.

1. Remove steering wheel. Refer to ST-50, "Removal and Installation".
2. Release pawls and remove steering wheel rear finisher (1) from steering wheel (2).



3. Remove steering switch screws.
4. Remove steering switch (1) from steering wheel (2).



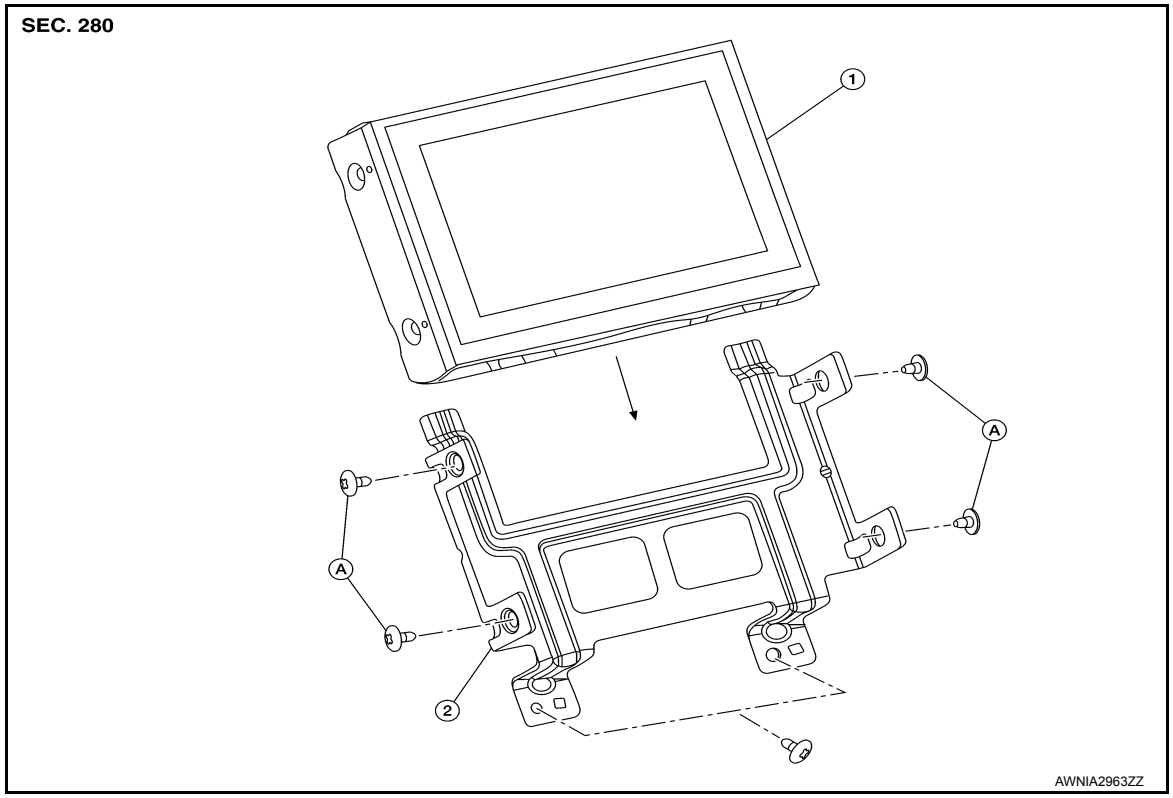
INSTALLATION

Installation is in the reverse order of removal.

DISPLAY UNIT

Exploded View

INFOID:0000000013523317



1. Display unit
2. Display unit bracket
A. Display unit screws

Removal and Installation

INFOID:0000000013523318

REMOVAL

1. Remove cluster lid D. Refer to IP-24, "Removal and Installation".
2. Remove the display unit screws, then pull out the display unit and bracket.
3. Disconnect harness connector from the display unit, then remove the display unit and bracket.
4. Remove the display unit brackets screws and the display unit from the display unit bracket (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

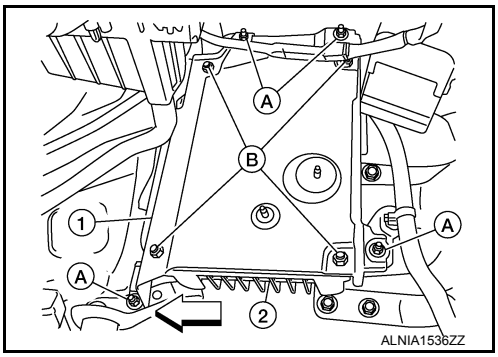
BOSE® SPEAKER AMP

Removal and Installation

INFOID:0000000013522969

REMOVAL

1. Remove rear ventilator duct lower. Refer to VTL-14, "REAR VENTILATOR DUCT LOWER : Removal and Installation".
2. Remove Bose® speaker amp bracket nuts (A).
   ⇦: Front
3. Remove Bose® speaker amp (2) and bracket (1) as an assembly.
4. Remove bolts (B) and Bose® speaker amp (2) from Bose® speaker amp bracket (1).



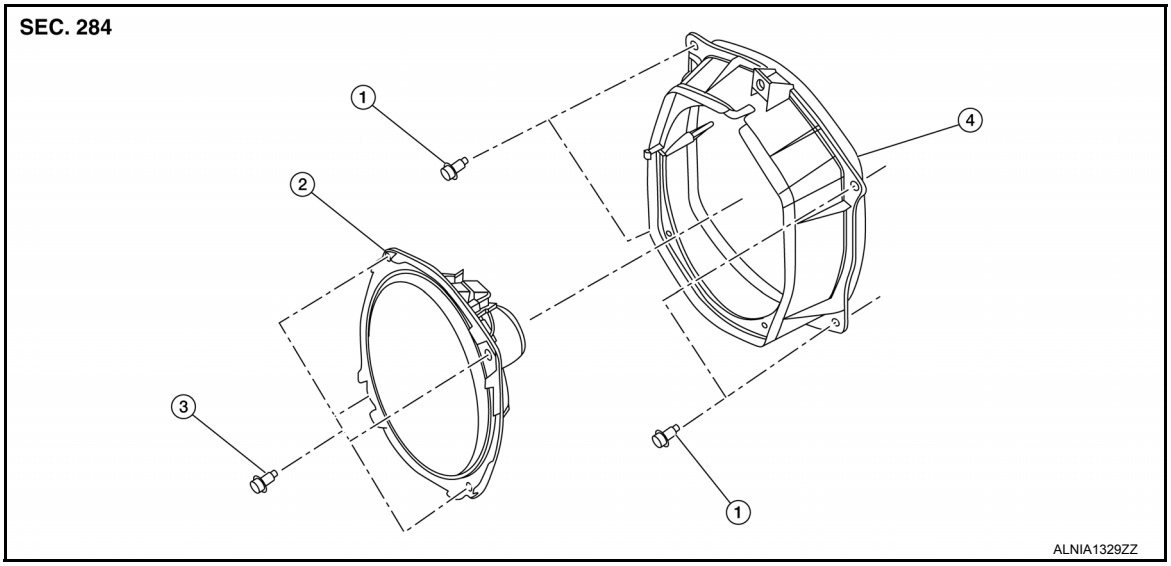
INSTALLATION

Installation is in the reverse order of removal.

FRONT DOOR SPEAKER

Exploded View

INFOID:0000000012849978



1. Speaker bracket bolt
2. Front door speaker
3. Speaker bolt
4. Speaker bracket

Removal and Installation

INFOID:0000000012849979

REMOVAL

1. Remove front door finisher. Refer to INT-15, "Removal and Installation".
2. Remove front door speaker bolts.
3. Disconnect harness connector from front door speaker, then remove front door speaker from speaker bracket.
4. Remove speaker bracket bolts (if necessary).
5. Remove speaker bracket from front door (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

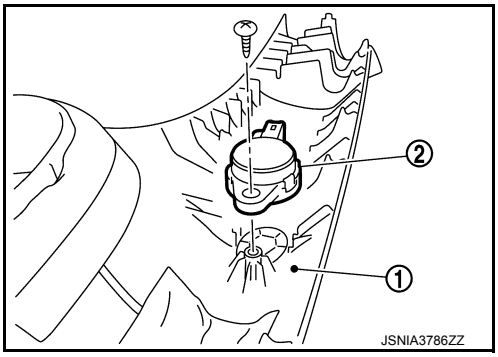
FRONT TWEETER

Removal and Installation

INFOID:0000000012849980

REMOVAL

1. Remove front pillar finisher. Refer to INT-19, "FRONT PILLAR FINISHER : Removal and Installation"
2. Remove two front tweeter screws.
3. Remove front tweeter (2) from front pillar finisher (1).



INSTALLATION

Installation is in the reverse order of removal.

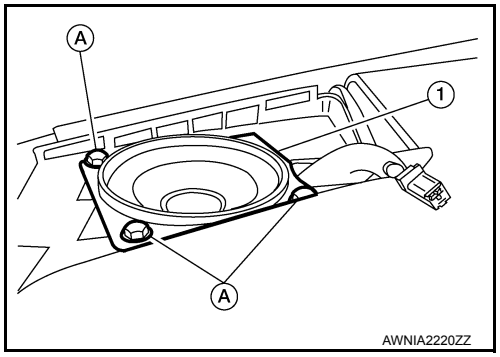
INSTRUMENT PANEL SPEAKER/TWEETER

Removal and Installation

INFOID:0000000012849981

REMOVAL

1. Remove instrument panel tweeter grille. Refer to IP-14, "Exploded View".
2. Remove the screws (A), then pull out the instrument panel tweeter (1).
3. Disconnect the harness connector from the instrument panel tweeter (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

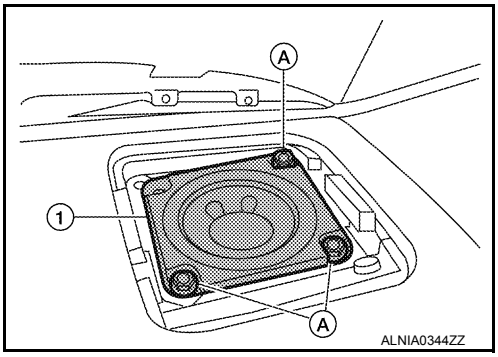
CENTER SPEAKER

Removal and Installation

INFOID:0000000012849982

REMOVAL

1. Remove center speaker grille. Refer to IP-14, "Exploded View".
2. Remove the center speaker bolts (A).
3. Pull out the center speaker (1), disconnect harness connector, then remove center speaker.



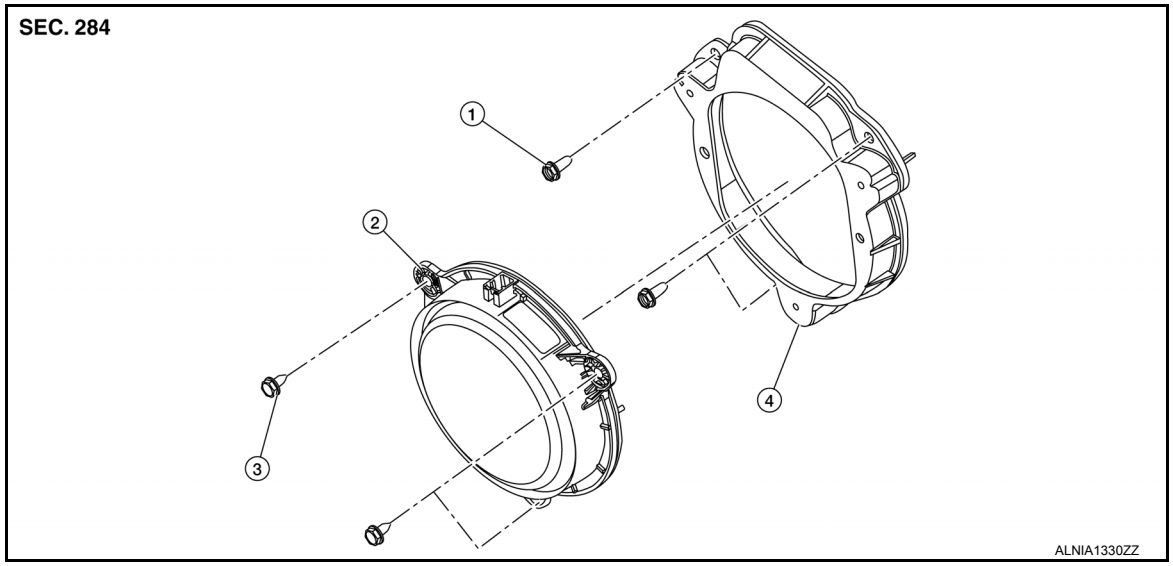
INSTALLATION

Installation is in the reverse order of removal.

REAR DOOR SPEAKER

Exploded View

INFOID:0000000012849983



1. Speaker bracket bolt
2. Rear door speaker
3. Speaker bolt
4. Speaker bracket

Removal and Installation

INFOID:0000000012849984

REMOVAL

1. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
2. Remove rear door speaker bolts.
3. Disconnect harness connector from the rear door speaker, then remove rear door speaker from speaker bracket.
4. Remove speaker bracket bolts (if necessary).
5. Remove rear door speaker bracket (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

REAR DOOR TWEETER

Removal and Installation

INFOID:0000000012849985

REMOVAL

1. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
2. Disconnect harness connector from the rear door tweeter.
3. Remove the rear door tweeter screws and rear door tweeter.

INSTALLATION

Installation is in the reverse order of removal.

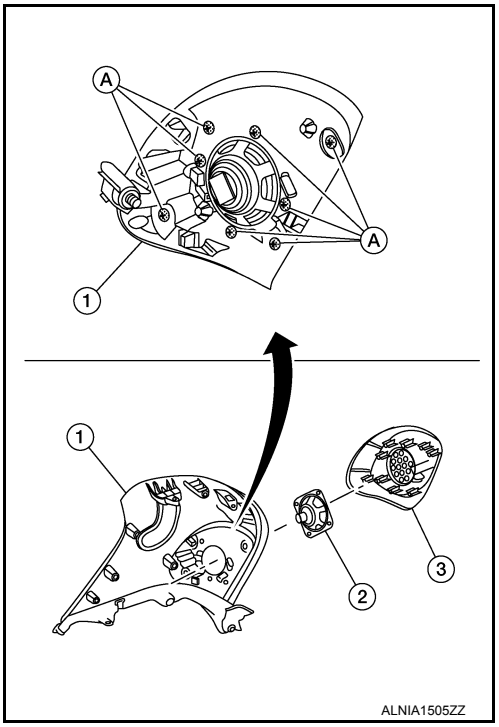
REAR SPEAKERS

Removal and Installation

INFOID:0000000013522978

REMOVAL

1. Remove back pillar finisher. Refer to INT-32, "BACK PILLAR FINISHER : Removal and Installation".
2. Remove rear speaker screws (A) from back pillar finisher (1).
3. Remove the rear speaker (2) and grille (3).



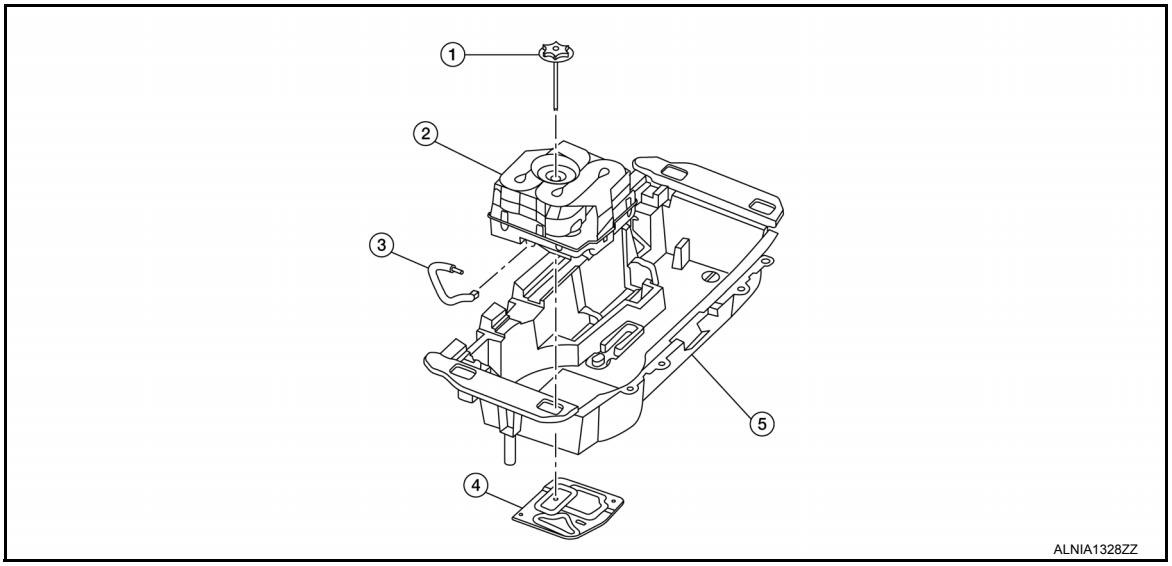
INSTALLATION

Installation is in the reverse order of removal.

SUBWOOFER

Exploded View

INFOID:0000000012849987



1. Subwoofer clamp
2. Subwoofer
3. Harness
4. Bracket
5. Rear storage box

Removal and Installation

INFOID:0000000012849988

REMOVAL

1. Open the storage box lid.
2. Remove the subwoofer clamp.
3. Lift subwoofer to disconnect harness connector, then remove subwoofer.

INSTALLATION

Installation is in the reverse order of removal.

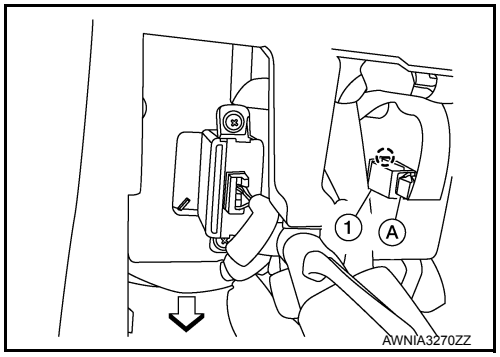
USB INTERFACE

Removal and Installation

INFOID:0000000013522991

REMOVAL

1. Remove shift selector finisher. Refer to IP-18, "Exploded View".
2. Disconnect harness connector (A) from the USB interface (1).
3. Release the pawl from the back of USB interface (1), then remove the USB interface by pulling out from the front side.
   ◌: Pawl



INSTALLATION

Installation is in the reverse order of removal.

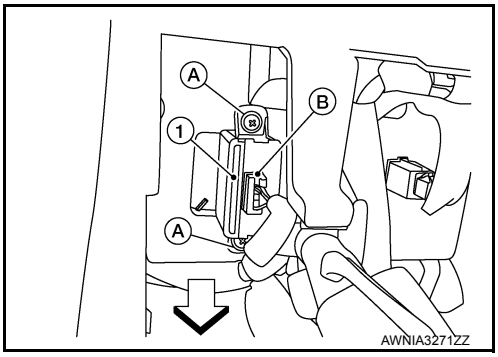
FRONT AUXILIARY INPUT JACKS

Removal and Installation

INFOID:0000000013522996

REMOVAL

1. Remove shift selector finisher. Refer to IP-18, "Exploded View".
2. Disconnect harness connector (B) from the front auxiliary input jack (1).
3. Remove front auxiliary input jack screws (A) and front auxiliary input jack (1).
   ⇦: Front



INSTALLATION

Installation is in the reverse order of removal.

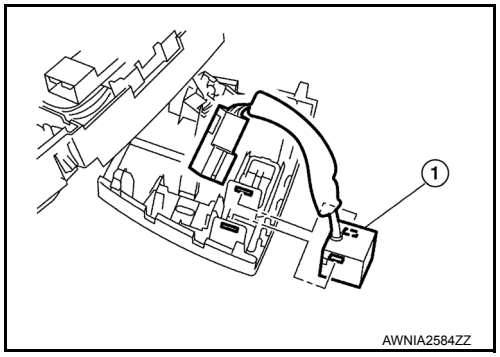
MICROPHONE

Removal and Installation

INFOID:0000000012849990

REMOVAL

1. Remove the front room/map lamp assembly. Refer to INL-64, "Removal and Installation".
2. Release the pawls, then remove the microphone (1) from the front room/map lamp assembly.
   CAUTION:
   Carefully handle the pawls that retain the microphone to avoid damaging.



INSTALLATION

Installation is in the reverse order of removal.

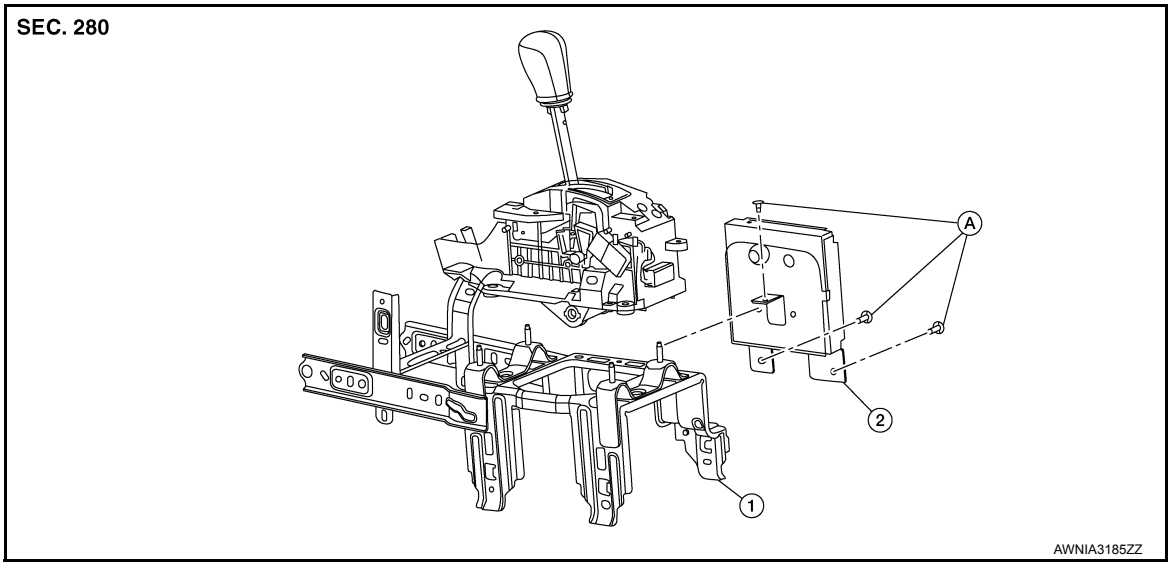
NOTE:

Check the microphone for looseness after installation.

AROUND VIEW MONITOR CONTROL UNIT

Exploded View

INFOID:0000000013523001



1. Bracket
2. Around view monitor control unit
A. Screw

Removal and Installation

INFOID:0000000013523002

REMOVAL

CAUTION:

Before replacing around view monitor control unit, save or print current vehicle specification with CONSULT configuration before replacement. Refer to AV-774, "ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT : Description".

1. Remove center console assembly. Refer to IP-18, "Removal and Installation".
2. Remove the around view monitor control unit screws.
3. Disconnect harness connector from around view monitor control unit and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **When replacing around view monitor control unit, you must perform "After Replace ECU" with CONSULT. Refer to AV-774, "ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT : Description".**
- **Perform camera image calibration. Refer to AV-779, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".**

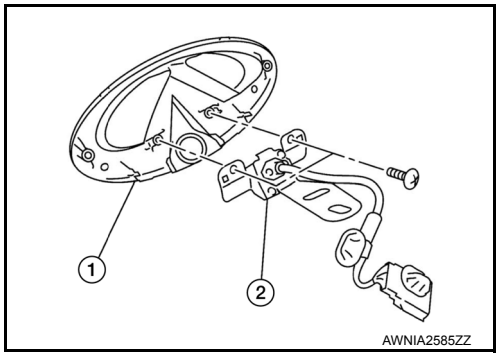
FRONT CAMERA

Removal and Installation

INFOID:0000000012849994

REMOVAL

1. Remove front grille. Refer to EXT-23, "Removal and Installation".
2. Remove front camera screws and front camera (2) from front emblem (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to AV-484, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".

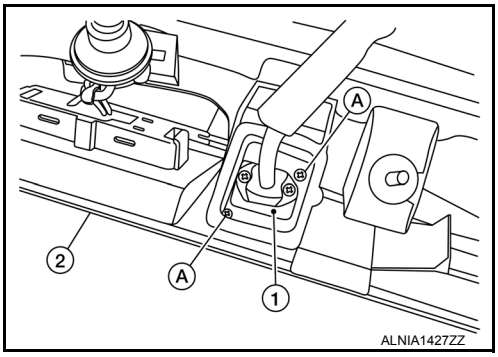
REAR VIEW CAMERA

Removal and Installation

INFOID:0000000012849995

REMOVAL

1. Remove back door outer upper finisher. Refer to EXT-45, "Removal and Installation".
2. Remove rear view camera screws (A), then remove rear view camera (1) from the back door outer upper finisher (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to AV-484, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".

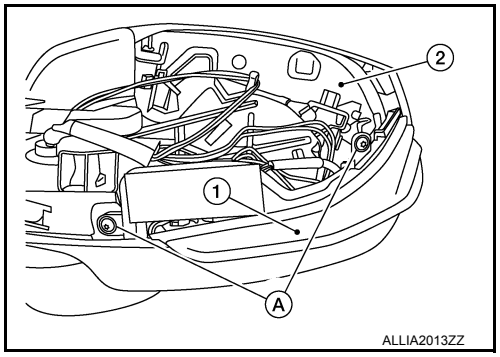
SIDE CAMERA

Removal and Installation

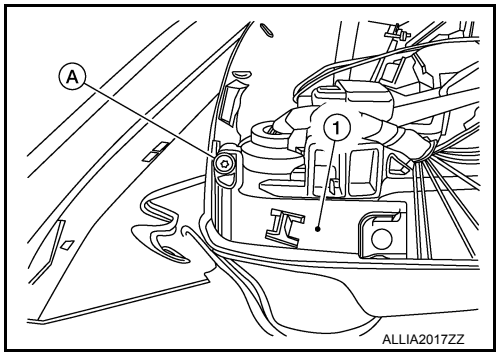
INFOID:0000000013523007

REMOVAL

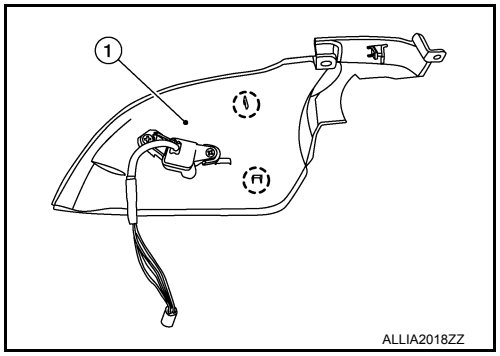
1. Remove the door mirror rear finisher. Refer to MIR-37, "Removal and Installation".
2. Remove the screws (A) and remove the turn signal lamp (1) from the door mirror (2).



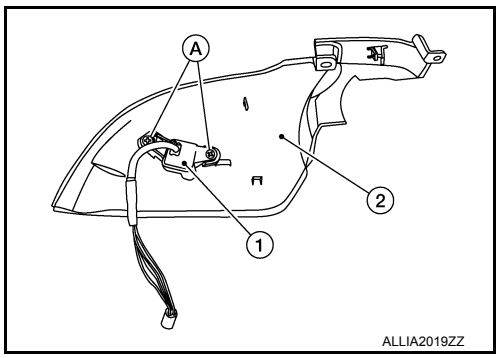
3. Remove the screw (A) from camera finisher (1).



4. Using a suitable tool release pawls and remove camera finisher (1).
   ◌: Pawl



5. Remove the screws (A) and remove side camera (1) from camera finisher (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to AV-779, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".

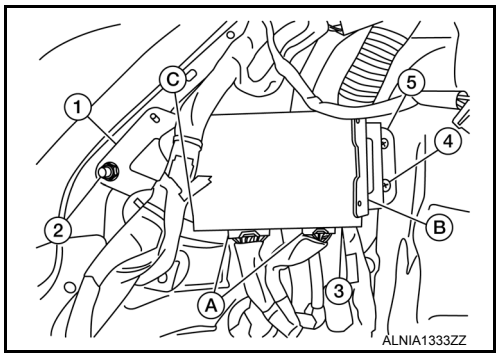
VIDEO DISTRIBUTOR

Removal and Installation

INFOID:0000000012849997

REMOVAL

1. Remove luggage side lower finisher. Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
2. Disconnect video distributor harness connectors (A).
3. Remove video distributor nuts (2) and bolts (4).
4. Remove video distributor (3) and brackets (1) (5) from the vehicle as a single unit.
5. Remove screws (B) (C), then remove video distributor (3).



INSTALLATION

Installation is in the reverse order of removal.

HEADREST DISPLAY UNIT

Removal and Installation

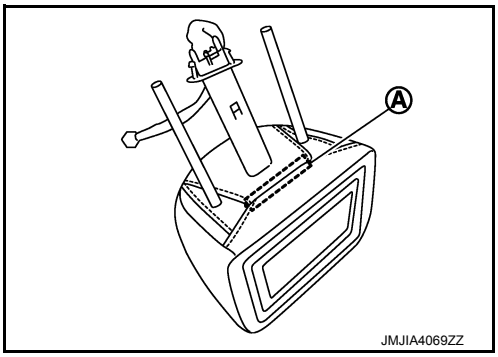
INFOID:0000000012849998

REMOVAL

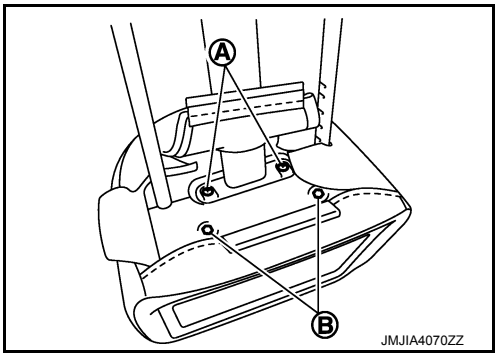
CAUTION:

- **Do not press panel surface of display (glass area).**
- **Do not press or pull out the movable part of display.**

1. Remove the headrest trim retainer (A).

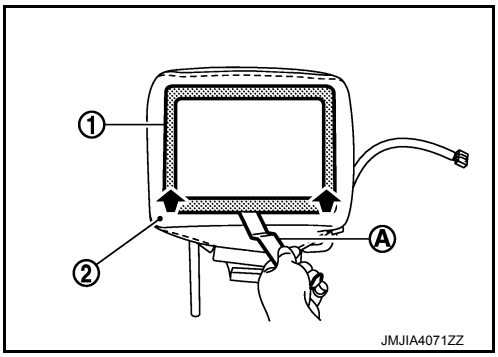


2. Remove the headrest display harness and upper tube screws (A), then remove headrest display unit bolts (B).

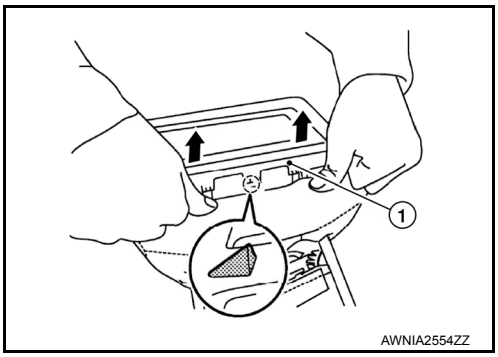


3. Remove the headrest display escutcheon and headrest display.

a. Insert a suitable tool (A) between lower side of headrest display escutcheon (1) and headrest trim (2) and pull out lower side of escutcheon.



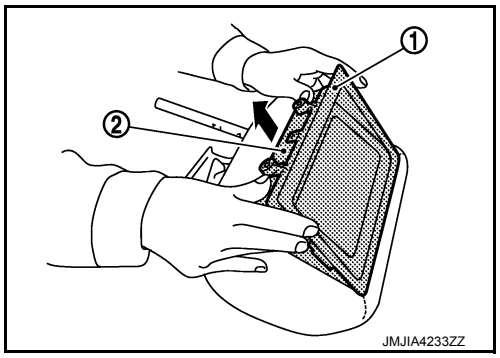
b. Pull out headrest display escutcheon (1) to the position that pawl is visible and disengage pawl.
◌: Pawl



c. Pull out lower side of headrest display escutcheon from headrest.

CAUTION:
Be careful not damage pawls on upper side headrest display escutcheon.

d. Pull downward and remove headrest display escutcheon (1) and headrest display unit (2) by pulling them out and removing pins on upper side of display.



e. Disconnect inner harness connector.
f. Press headrest display escutcheon to the headrest display unit side. Disconnect pawls on upper side and remove headrest display escutcheon.
4. Remove the headrest display harness upper tube from headrest trim.

INSTALLATION

Installation is in the reverse order of removal.

REAR AUXILIARY INPUT JACKS

Removal and Installation

INFOID:0000000012849999

REMOVAL

1. Remove rear center ventilator duct. Refer to VTL-12, "REAR CENTER VENTILATOR DUCT : Removal and Installation".
2. Remove rear auxiliary input jack screws and rear auxiliary input jack.

INSTALLATION

Installation is in the reverse order of removal.

SONAR CONTROL UNIT

Removal and Installation

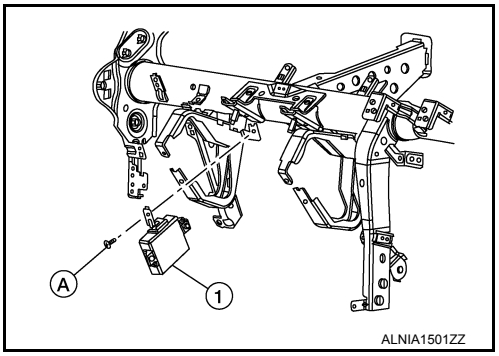
INFOID:0000000013523012

REMOVAL

CAUTION:

When replacing sonar control unit, save or print current vehicle specification with CONSULT configuration before replacement. Refer to AV-776, "ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT : Description".

1. Remove instrument lower panel LH. Refer to IP-25, "Removal and Installation".
2. Disconnect harness connector from the sonar control unit.
3. Remove screw (A) and the sonar control unit (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

When replacing sonar control unit, you must perform "After Replace ECU" with CONSULT. Refer to AV-776, "ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT : Description".

SONAR SENSOR

Removal and Installation

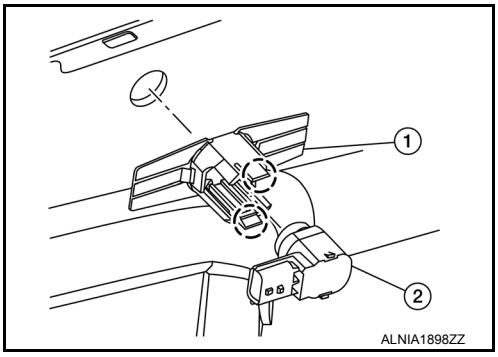
INFOID:0000000013600298

REAR SONAR SENSOR

Removal

1. Remove rear bumper fascia. Refer to EXT-20, "Removal and Installation".
2. Disconnect the harness connector from the rear sonar sensor.
3. Release the rear sonar sensor finisher (1) pawls using suitable tool and remove the rear sonar sensor (2).

:Pawl



4. Remove the rear sonar sensor finisher from the bumper fascia (if necessary).

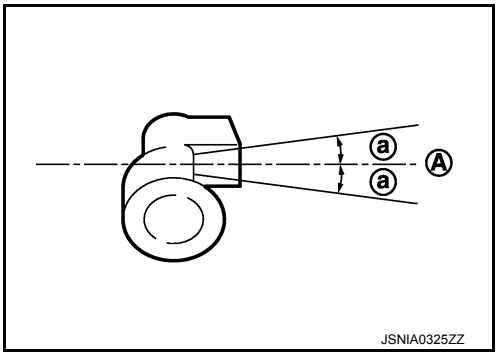
CAUTION:
If the rear sonar sensor finisher is replaced, clean area before installation.

Installation

Installation is in the reverse order of removal.

CAUTION:
Verify that the connector direction is within the specification shown when assembling the bumper fascia.

(A) : Horizontal position
(a) : ±10°

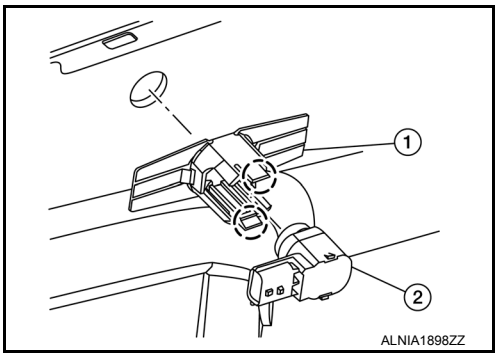


FRONT SONAR SENSOR (OUTER)

Removal

1. Remove the front bumper fascia. Refer to EXT-17, "Removal and Installation".
2. Disconnect the harness connector from the front sonar sensor (outer).
3. Release the front sonar sensor finisher (1) pawls using suitable tool and remove the front sonar sensor (outer) (2).

:Pawl



4. Remove the front sonar sensor finisher (1) from the bumper fascia (if necessary).

CAUTION:

If the sonar sensor finisher is replaced, clean area before installation.

Installation

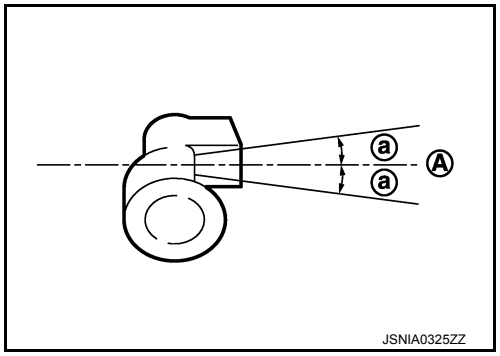
Installation is in the reverse order of removal.

CAUTION:

Verify that the connector direction is within the specification shown when assembling the bumper fascia.

(A) : Horizontal position

(a) : 10°

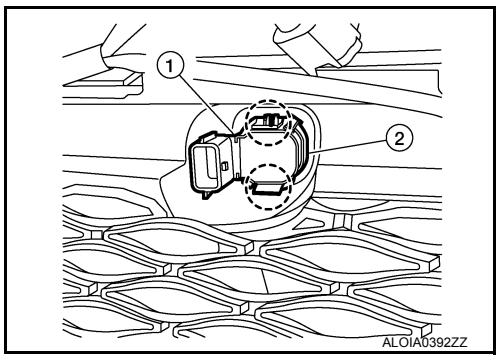


FRONT SONAR SENSOR (INNER)

Removal

1. Remove the front bumper fascia. Refer to EXT-17, "Removal and Installation".
2. Disconnect the harness connector from the front sonar sensor (inner).
3. Release the front sonar sensor (inner) finisher (2) pawls using suitable tool and remove the sensor (1).

:Pawl



4. Remove the sonar sensor finisher from the grille (if necessary).

CAUTION:

If the sonar sensor finisher is replaced, clean area before installation.

Installation

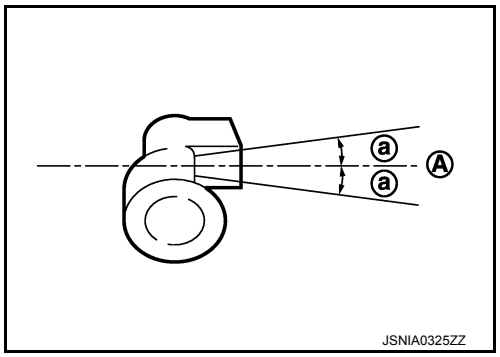
Installation is in the reverse order of removal.

CAUTION:

Verify that the connector direction is within the specification shown when assembling the bumper fascia.

(A) : Horizontal position

(a) : 10°



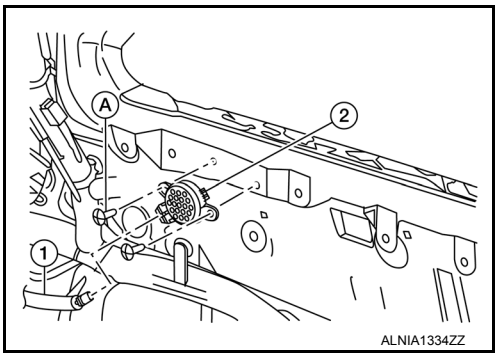
SONAR BUZZER

Removal and Installation

INFOID:0000000012850002

REMOVAL

1. Remove luggage side lower finisher (LH). Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
2. Disconnect harness connector (1) from the sonar buzzer.
3. Remove sonar buzzer screws (A), then remove sonar buzzer (2).



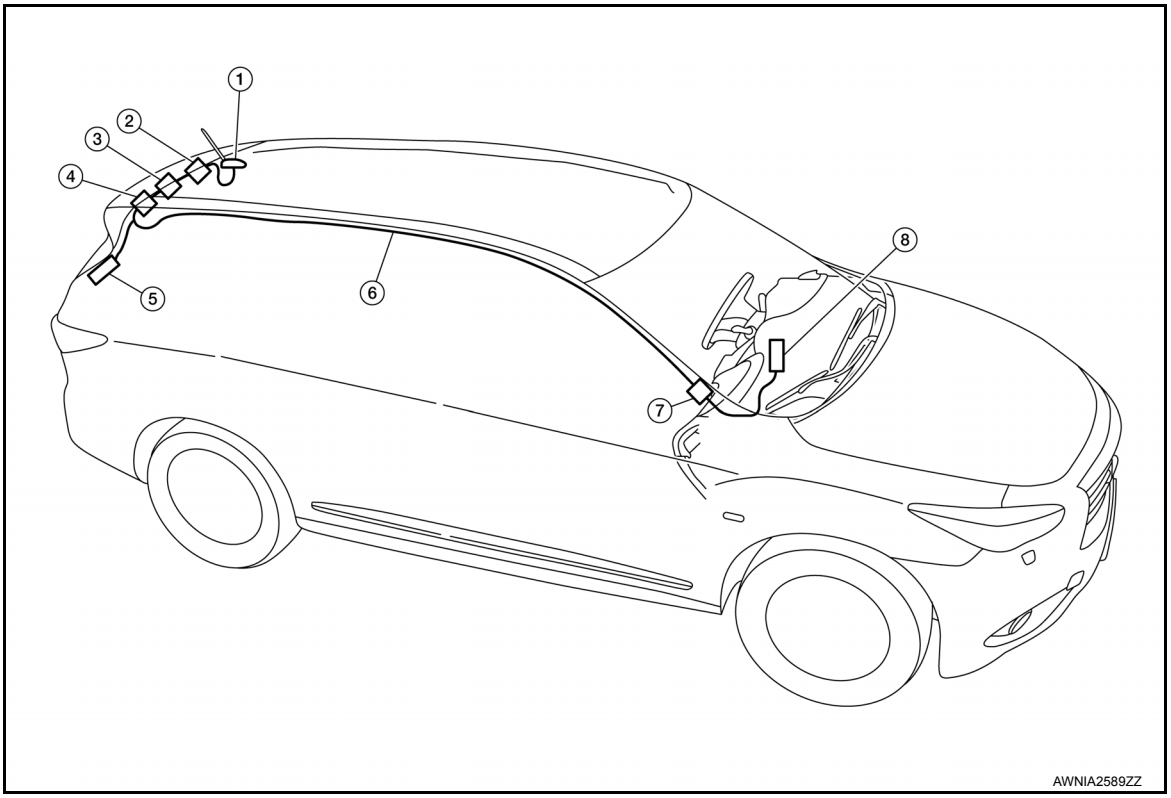
INSTALLATION

Installation is in the reverse order of removal.

AUDIO ANTENNA

Location of Antennas

INFOID:0000000012850003



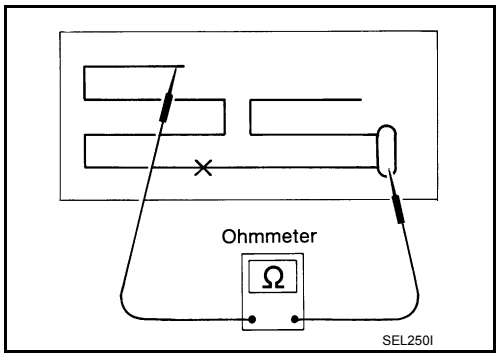
1. Antenna base (satellite antenna and antenna amp)
2. M502
3. M501
4. M503, M504
5. M505
6. Antenna Feeder
7. M95, M138, M500, M509
8. AV control unit M133, M143

Window Antenna Repair

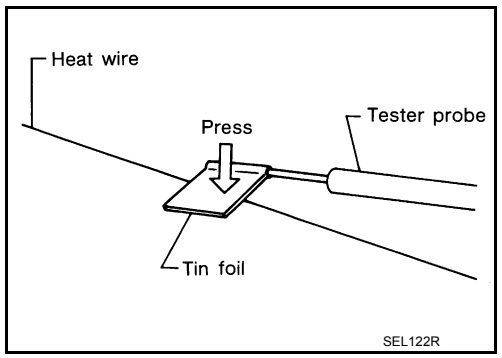
INFOID:0000000012850004

ELEMENT CHECK

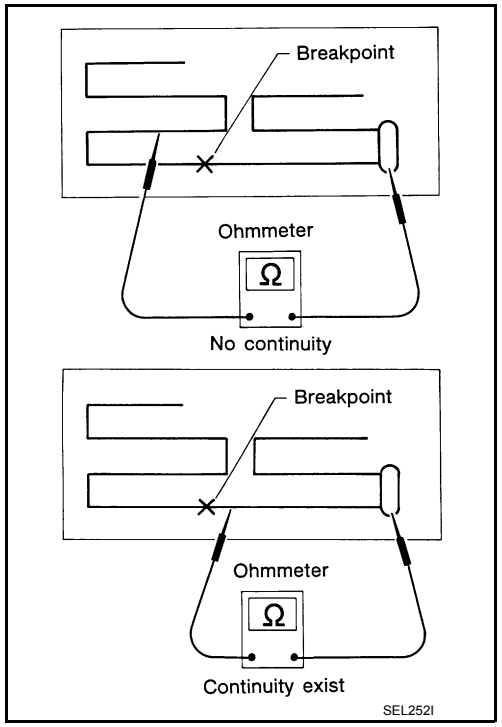
1. Attach probe circuit tester (ohm setting) to antenna terminal on each side.



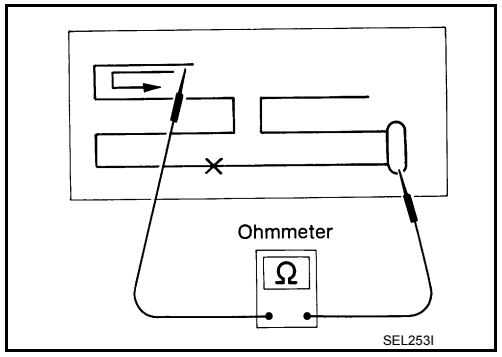
- **When measuring continuity, wrap tin foil around the top of probe. Then, press the foil against the wire with your finger.**



2. If an element is broken, no continuity will exist.



3. To locate a break, move probe along element. Tester indication will change abruptly when probe passes the broken point.



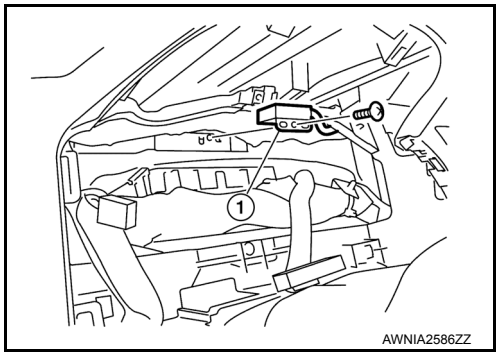
GPS ANTENNA

Removal and Installation

INFOID:0000000012850005

REMOVAL

1. Remove combination meter. Refer to MWI-94, "Removal and Installation".
2. Disconnect harness connector from AV control unit.
3. Remove harness feeder clips.
4. Remove GPS antenna screw and GPS antenna (1).



INSTALLATION

Installation is in the reverse order of removal.

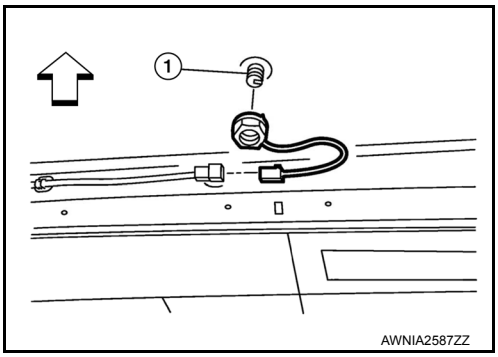
SATELLITE RADIO ANTENNA

Removal and Installation

INFOID:0000000012850006

REMOVAL

1. Lower headlining (rear). Refer to INT-27, "Removal and Installation".
2. Disconnect harness connector from antenna feeder.
3. Remove nut from satellite radio antenna (1) and remove.
   ⇦: Front



INSTALLATION

Installation is in the reverse order of removal.

Satellite radio antenna nut : 6.5 N·m (0.66 kg–m, 58 in–lb)

CAUTION:

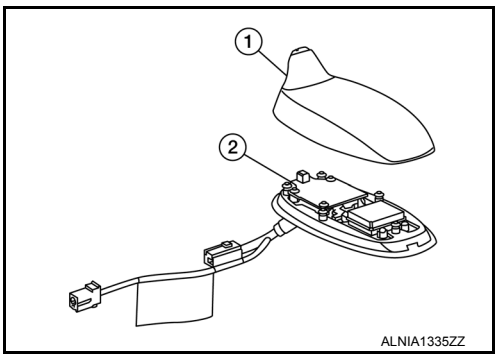
If the satellite radio antenna nut is not tightened to the specified torque, lower sensitivity of the antenna may be experienced. If the nut is tightened tighter than the specified torque, this will deform the roof panel.

Disassembly and Assembly

INFOID:0000000012850007

DISASSEMBLY

Insert a suitable tool into gaps between satellite radio antenna (2) and the cover (1), then remove the cover (1) from satellite radio antenna (2).



ASSEMBLY

Assembly is in the reverse order of disassembly.

PRECAUTION

PRECAUTIONS

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

INFOID:0000000013523019

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 dual stage front air bag modules. The SRS system may only deploy one front air bag, depending on the severity of a collision and whether the front passenger seat is occupied. Information necessary to service the system safely is included in the SR and SB section 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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, 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 SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

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

Cautions in Removing Battery Terminal and AV Control Unit (Models with AV Control Unit)

INFOID:0000000012850009

CAUTION:

Remove battery terminal and AV control unit 30 seconds or more after turning the ignition switch OFF.

NOTE:

After the ignition switch is turned OFF, the AV control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

Precaution for Trouble Diagnosis

INFOID:0000000012850010

AV COMMUNICATION SYSTEM

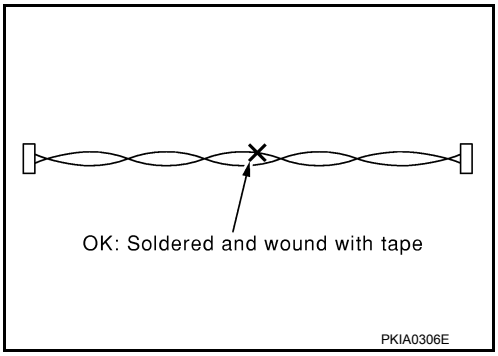
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

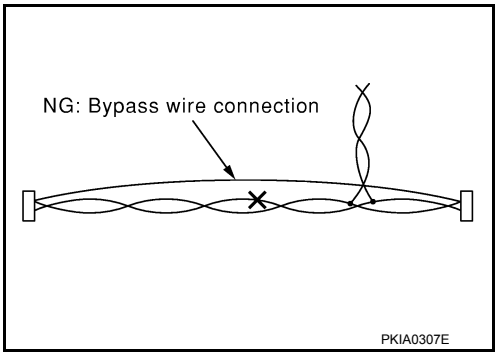
INFOID:0000000012850011

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.)



Precaution for Work

INFOID:0000000012850012

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:

- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:

- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

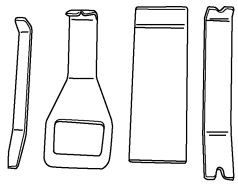
PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000012850013

The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tools

INFOID:0000000012850014

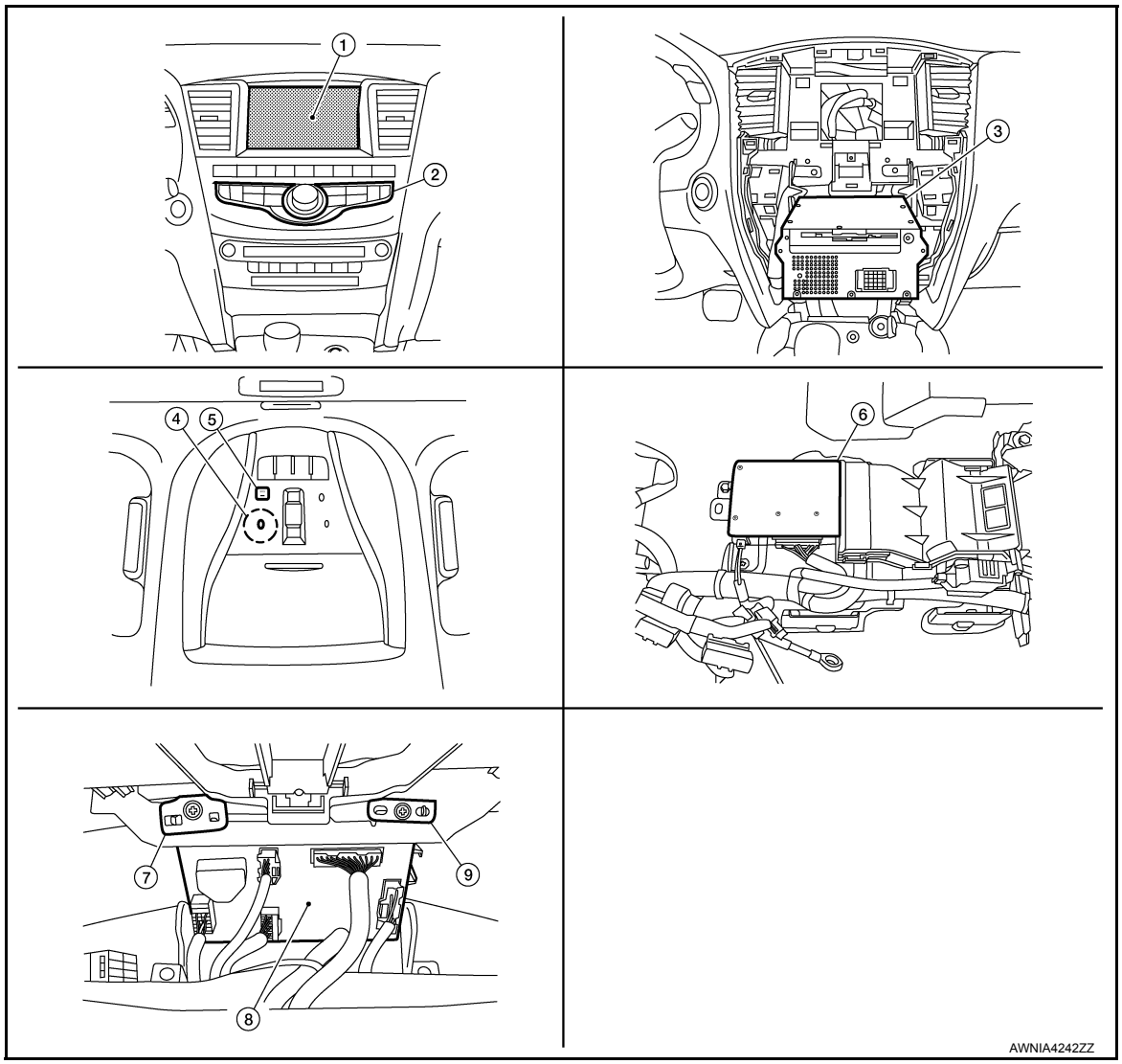
Tool name	Description
Power tools PIIB1407E	Loosening nuts, screws and bolts

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000012850015



1. Display unit
2. Multifunction switch
3. AV control unit
4. Microphone
5. Telematics switch
6. Telematics control unit (TCU)
7. TEL antenna
8. BCM
9. GPS antenna

Component Description

INFOID:0000000012850016

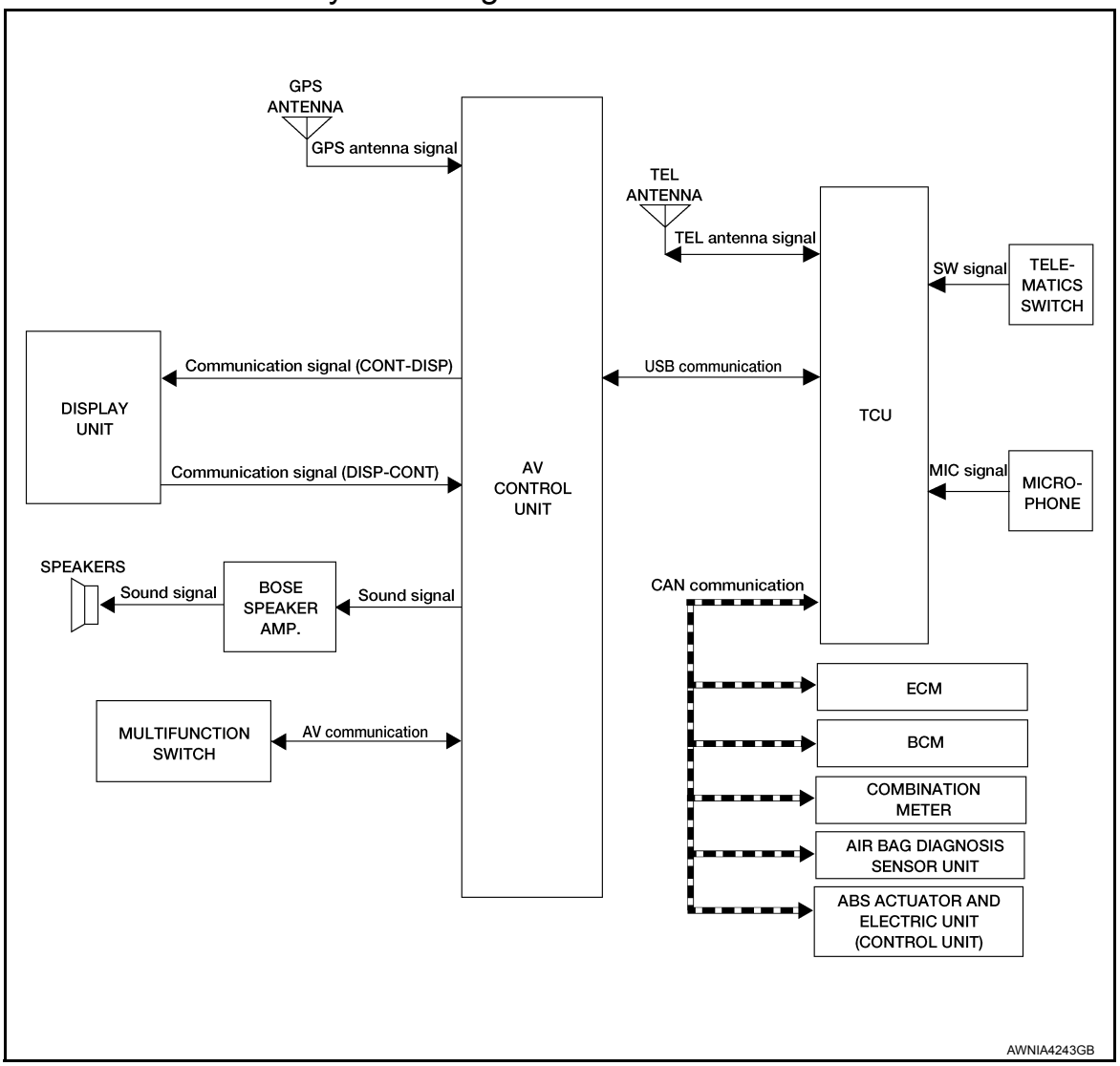
Part name	Description
Display unit	• Display image is controlled by AV control unit via serial communication. • RGB and RGB digital image signals are input from AV control unit. • Composite image signals are input from AV control unit. • Synchronizing signals are output to AV control unit. • Touch panel function can be operated by touching display directly.
Multifunction switch	• Operation panel is equipped with the centralized switch where navigation and INFINITI CONNECTIONS, etc. operations are integrated. • Operation signal is transmitted via AV communication to AV control unit.

Part name	Description
AV control unit	• Connected to telematics control unit (TCU) via USB harness. • Sends and receives the signals necessary for telematics functions. • Switch operation signals used for the telematics system are transmitted to TCU via USB communication. • GPS signal is sent to TCU via USB harness.
Microphone	• Used for voice recognition function. • Used for Infiniti Connection™ Response service of Infiniti Connection™. • Telematics control unit (TCU) supplies power to the microphone. • An audio signal is transmitted to TCU during speech.
Telematics switch	• Located on the map lamp assembly. • Connected to telematics control unit (TCU) and transmits an operation signal. • State of LED (ON/Blink/OFF) indicates status of SOS call.
Telematics control unit (TCU)	• Connected to the AV control unit via USB harness for sound signal input/output and USB communication. • VIN information necessary for telematics service is memorized. • Connected to air bag diagnosis sensor unit via CAN communication, the TCU performs an emergency report when an air bag is inflated. • Audio signals received during SOS/Infiniti Connection™ Response Specialists call are transmitted from TCU to each speaker via the AV control unit. • During communication with Infiniti Connection™ Data Center and Infiniti Connection™ Response Center, the TCU prohibits the use of Bluetooth™ hands-free phone.
Telematics antenna	• Transmits and receives data communication and voice signals for telematics control unit (TCU). • Power is supplied with TCU activated.
GPS antenna	• Amplifies radio waves received from the GPS satellite and transmits GPS signal to AV control unit. • Power is supplied from AV control unit. • GPS signal is sent from AV control unit to telematics control unit (TCU) via USB harness.

SYSTEM
TELEMATICS SYSTEM

TELEMATICS SYSTEM : System Diagram

INFOID:0000000012850017



TELEMATICS SYSTEM : System Description

INFOID:0000000012850018

The telematics system interacts with the INFINITI CONNECTION data center using GPS and GSM/GPRS technologies. The telematics control unit (TCU) can send messages to and receive commands from the INFINITI CONNECTION data center. This allows the INFINITI CONNECTION data center to monitor the vehicle and obtain actual position coordinates and automatically detected events, as well as initiate certain services from outside the vehicle. In addition, the vehicle operator can initiate services from inside the vehicle.

NOTE:

For additional information on the Telematics system, refer to the NAVIGATION SYSTEM OWNER'S MANUAL.

DIAGNOSIS SYSTEM (TCU)

CONSULT Function

INFOID:0000000012850019

CAUTION:
After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

CONSULT FUNCTIONS

CONSULT performs the following functions via communication with the TCU.

Direct Diagnostic Mode	Description
ECU Identification	The AV control unit part number is displayed.
Self Diagnostic Result	The AV control unit self diagnostic results are displayed.
Data Monitor	The AV control unit input/output data is displayed in real time.
Work support	The settings for AV control unit functions can be changed.
CAN Diag Support Mntr	• The result of transmit/receive diagnosis of AV communication is displayed. • The result of transmit/receive diagnosis of CAN communication is displayed.

ECU IDENTIFICATION

The part number of TCU is displayed.

SELF DIAGNOSTIC RESULT

Refer to AV-958, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
HF TYPE [NO BT/]	HF type is displayed.
AUDIO UNIT TYPE [NAVI/]	AV control unit type is displayed.
CALL SWITCH TYPE [SOS/]	Call switch type is displayed.
ECHO CANCEL [TYPE 1/]	Echo cancel type is displayed.
NOISE CANCEL [TYPE 1/]	Noise cancel type is displayed.
TCU STANDBY TIME [2DAYS/14DAYS/30DAYS]	TCU standby time is displayed.
NAD OUTPUT STATUS [On/Off]	TCU activation is displayed.
ACN COMM SEQUENCE LOG [1–255]	ACN communication sequence log is displayed.
SOS COMM SEQUENCE LOG [1–10]	SOS communication sequence log is displayed.

WORK SUPPORT

Conditions	Description
SAVE VIN DATA	VIN data saved in TCU is stored in CONSULT.
CENTER CONNECTION SETTING	Connection to INFINITI CONNECTION data center can be set.
TCU ACTIVATE SETTING	Off: TCU activation Off.
	On: TCU activation On.
WRITE VIN (SAVED DATA)	VIN data from SAVE VIN DATA can be written to new TCU.
WRITE VIN (MANUAL INPUT)	VIN data can be manually written to new TCU.

CAN DIAG SUPPORT MNTR

Refer to LAN-25, "CAN Diagnostic Support Monitor".

ECU DIAGNOSIS INFORMATION

AV CONTROL UNIT

List of ECU Reference

INFOID:0000000012850020

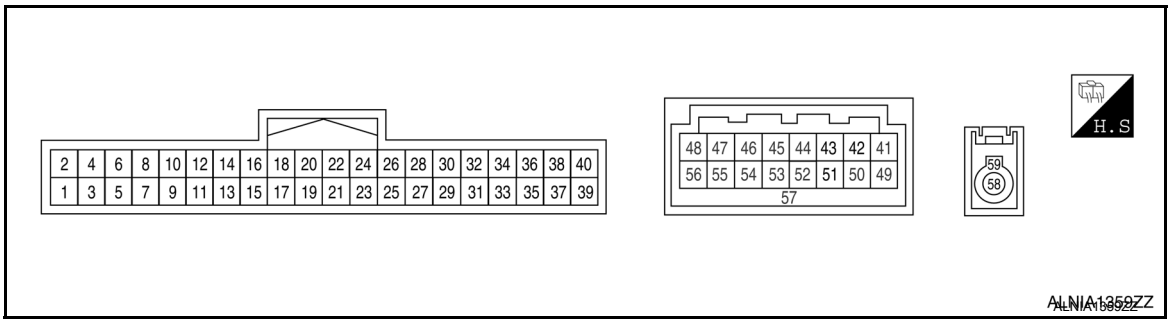
ECU	Reference
AV control unit (Bose Audio with Navigation w/o Surround)	AV-399, "Reference Value"
	AV-405, "Fail-Safe"
	AV-405, "DTC Index"
AV control unit (Bose Audio with Navigation and Surround)	AV-691, "Reference Value"
	AV-697, "Fail-Safe"
	AV-698, "DTC Index"

TCU

Reference Value

INFOID:0000000012850021

TERMINAL LAYOUT



INPUT/OUTPUT SIGNAL STANDARD

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output			
1 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery Voltage
2 (B)	—	Ground	—	—	—	—
3 (P)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery Voltage
4 (LG)	Ground	Ignition power supply	Input	Ignition switch ON	—	Battery Voltage
5 (G)	Ground	ACC OUT	Output	Ignition switch ACC	—	Battery Voltage
6 (G)	Ground	AV ACC	Output	Ignition switch ACC	—	Battery Voltage
7 (B)	—	Ground	—	—	—	—
9 (L)	—	V-CAN (H)	Input/ Output	—	—	—
10 (P)	—	V-CAN (L)	Input/ Output	—	—	—
18 (W)	20 (Shield)	MIC VCC	Input	Ignition switch ON	–	–
19 (B)	20 (Shield)	MIC SIG	Input	Ignition switch ON	–	–
21 (W)	23 (Shield)	DCM MIC VCC	Input	Ignition switch ON	–	–
22 (B)	23 (Shield)	DCM MIC SIG	Input	Ignition switch ON	–	–

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	–	Signal name	Input/ Output			
34 (R)	Ground	ECALL SW	Input	Ignition switch ON	Telematics switch pressed	0 V
35 (W)	Ground	LED A	Output	Ignition switch ON	Telematics switch pressed	0 V
41 (W)	42 (L)	U-VOICE signal	Input	—	—	—
46 (B)	Ground	Manufacturer Specific signal	—	—	—	—
47 (B)	55 (Shield)	USB V BUS signal	Input	Ignition switch ON	—	5 V
48 (B)	55 (Shield)	USB D- signal	Input/ Output	—	—	—
49 (B)	42 (L)	D-VOICE signal	Output	—	—	—
56 (L/W)	55 (Shield)	USB D+ signal	Input/ Output	Ignition switch ON	—	—
57 (Shield)	—	Shield	—	—	—	—
58 (B)	—	TEL antenna signal	Input	Ignition switch ACC	TEL antenna disconnected.	2.8 V
59 (Shield)	—	Shield	—	—	—	—

DTC Index

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CONSULT Display	Reference Page
U1000: CAN COMM CIRCUIT	AV-1053, "DTC Logic"
U1010: CONTROL UNIT (CAN)	AV-1054, "DTC Logic"
U1A00: ACC NO CONN	AV-1055, "DTC Logic"
U1A01: INTERNAL ERROR (TCU)	AV-1056, "DTC Logic"
U1A02: TEL COMMUNICATION MODULE	AV-1057, "DTC Logic"
U1A03: SIM CARD	AV-1058, "DTC Logic"
U1A04: VIN UNFINISHED	AV-1059, "DTC Logic"
U1A05: USB COMM	AV-1060, "DTC Logic"
U1A07: TEL ANTENNA SHORT	AV-1061, "DTC Logic"
U1A08: TEL ANTENNA NO CONN	AV-1062, "DTC Logic"
U1A0B: MIC IN CONN	AV-1063, "DTC Logic"
U1A0C: MIC OUT CONN	AV-1065, "DTC Logic"
U1A0E: SOS SWITCH ON STUCK	AV-1067, "DTC Logic"
U1A0F: SOS SWITCH NO CONN	AV-1068, "DTC Logic"

WIRING DIAGRAM

BOSE AUDIO W/NAVI W/O SURROUND

Wiring Diagram

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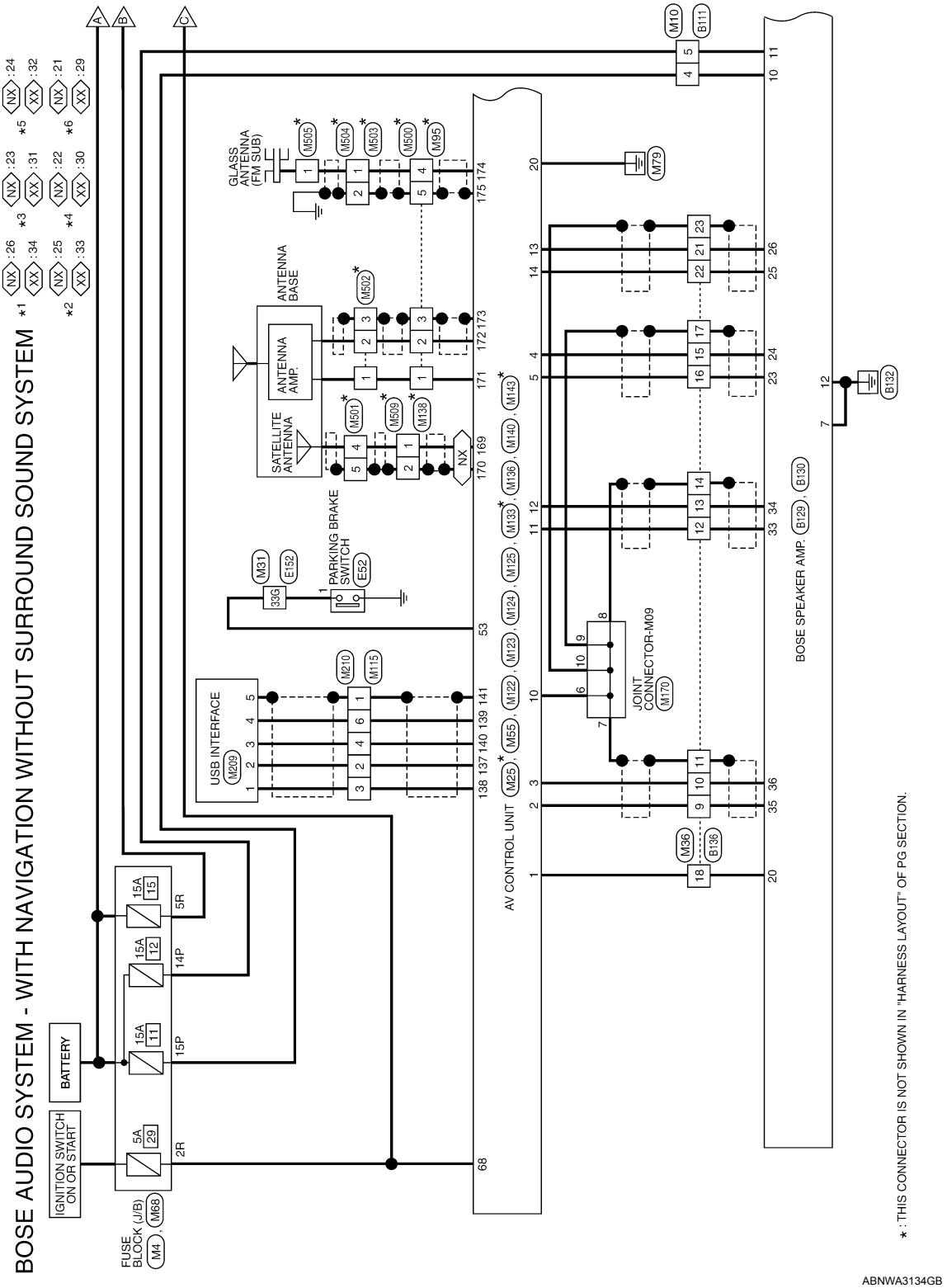

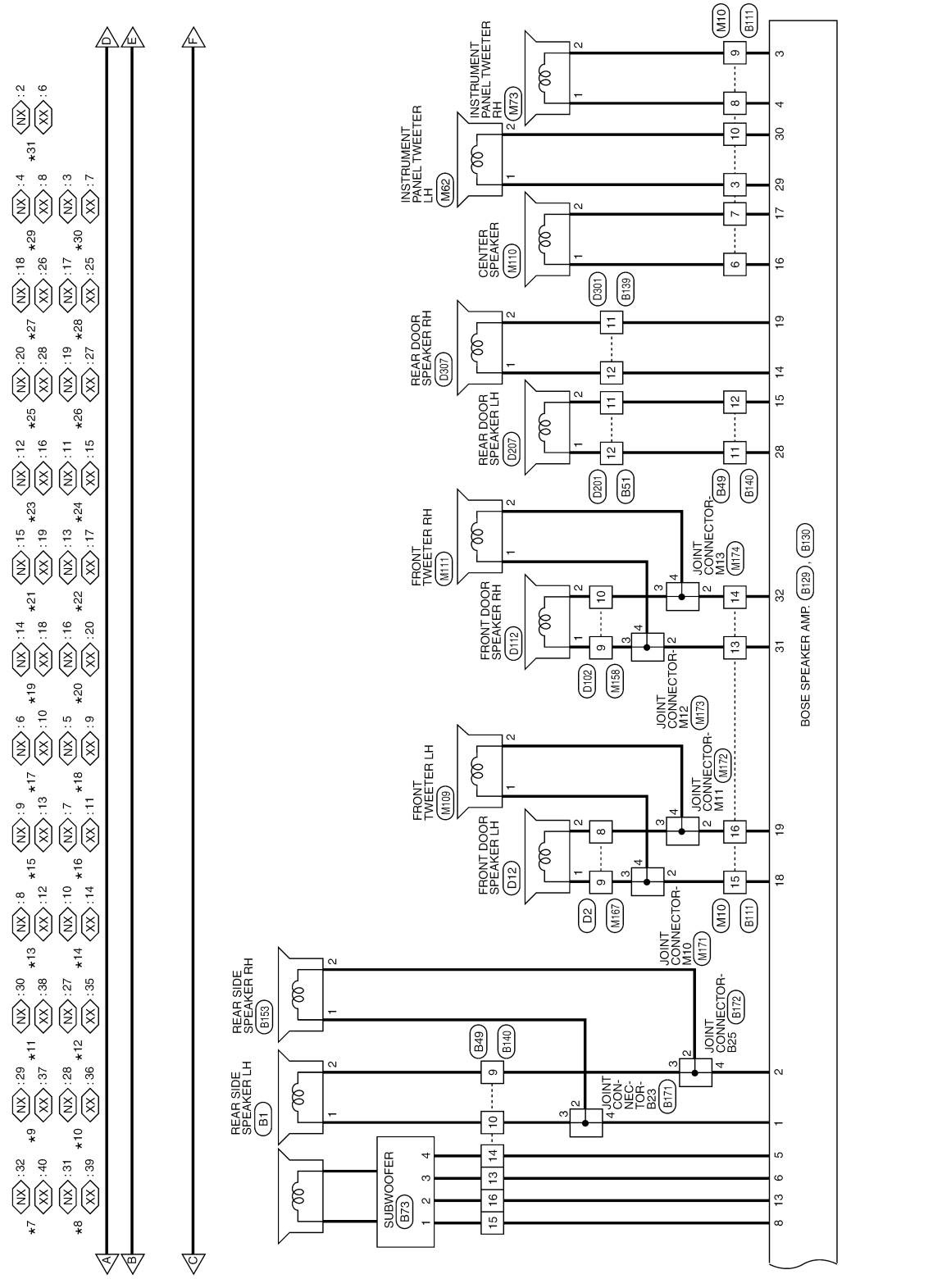

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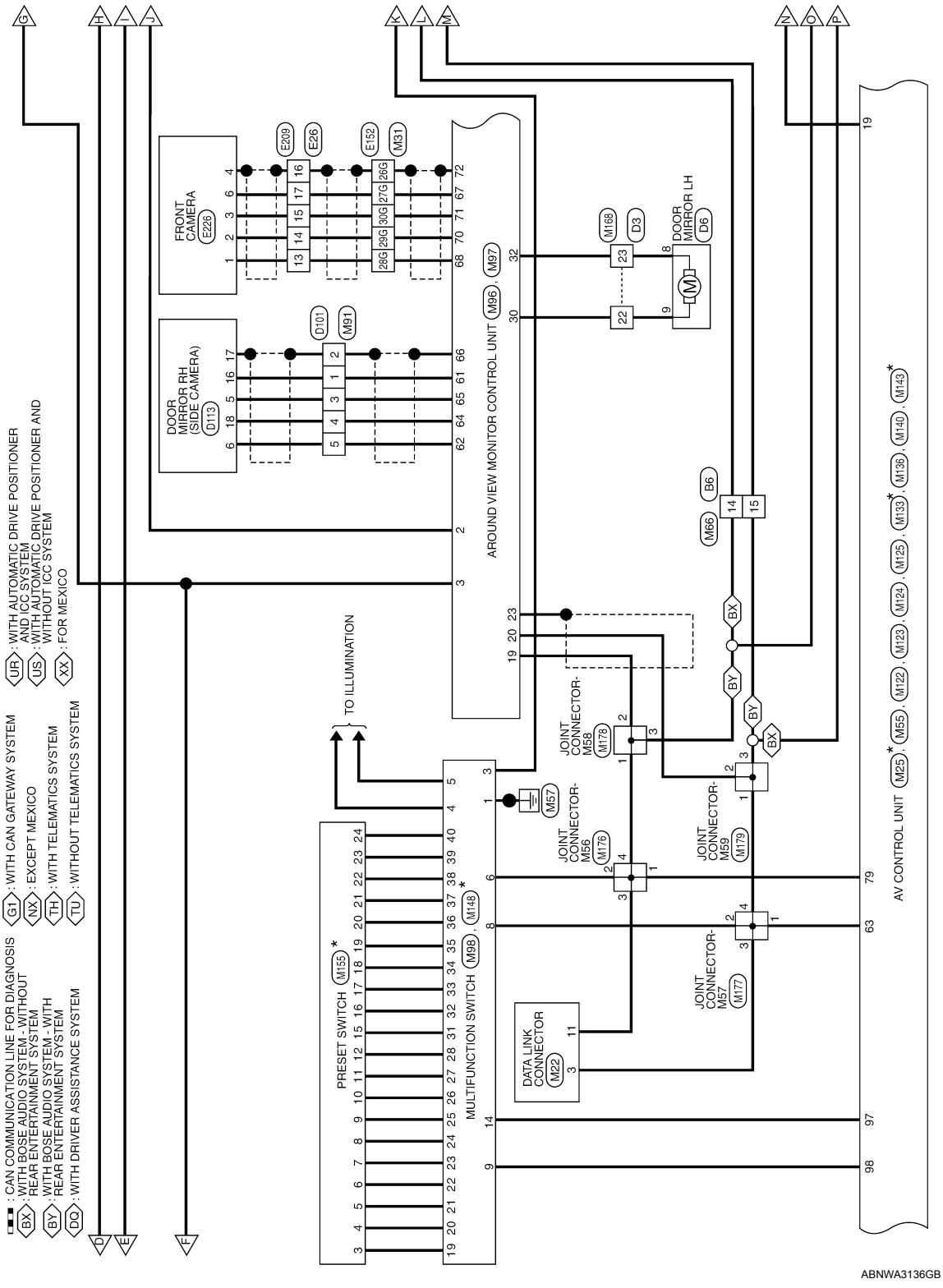
: CAN COMMUNICATION LINE FOR DIAGNOSIS
BX : WITH BOSE AUDIO SYSTEM - WITHOUT REAR ENTERTAINMENT SYSTEM
BY : WITH BOSE AUDIO SYSTEM - WITH REAR ENTERTAINMENT SYSTEM
DQ : WITH DRIVER ASSISTANCE SYSTEM
G1 : WITH CAN GATEWAY SYSTEM
NX : EXCEPT MEXICO
TH : WITH TELEMATICS SYSTEM
TU : WITHOUT TELEMATICS SYSTEM
UR : WITH AUTOMATIC DRIVE POSITIONER AND IVIS/ICC SYSTEM
US : WITH AUTOMATIC DRIVE POSITIONER AND WITHOUT ICC SYSTEM
XX : FOR MEXICO
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DOOR MIRROR LH D6
TO ILLUMINATION
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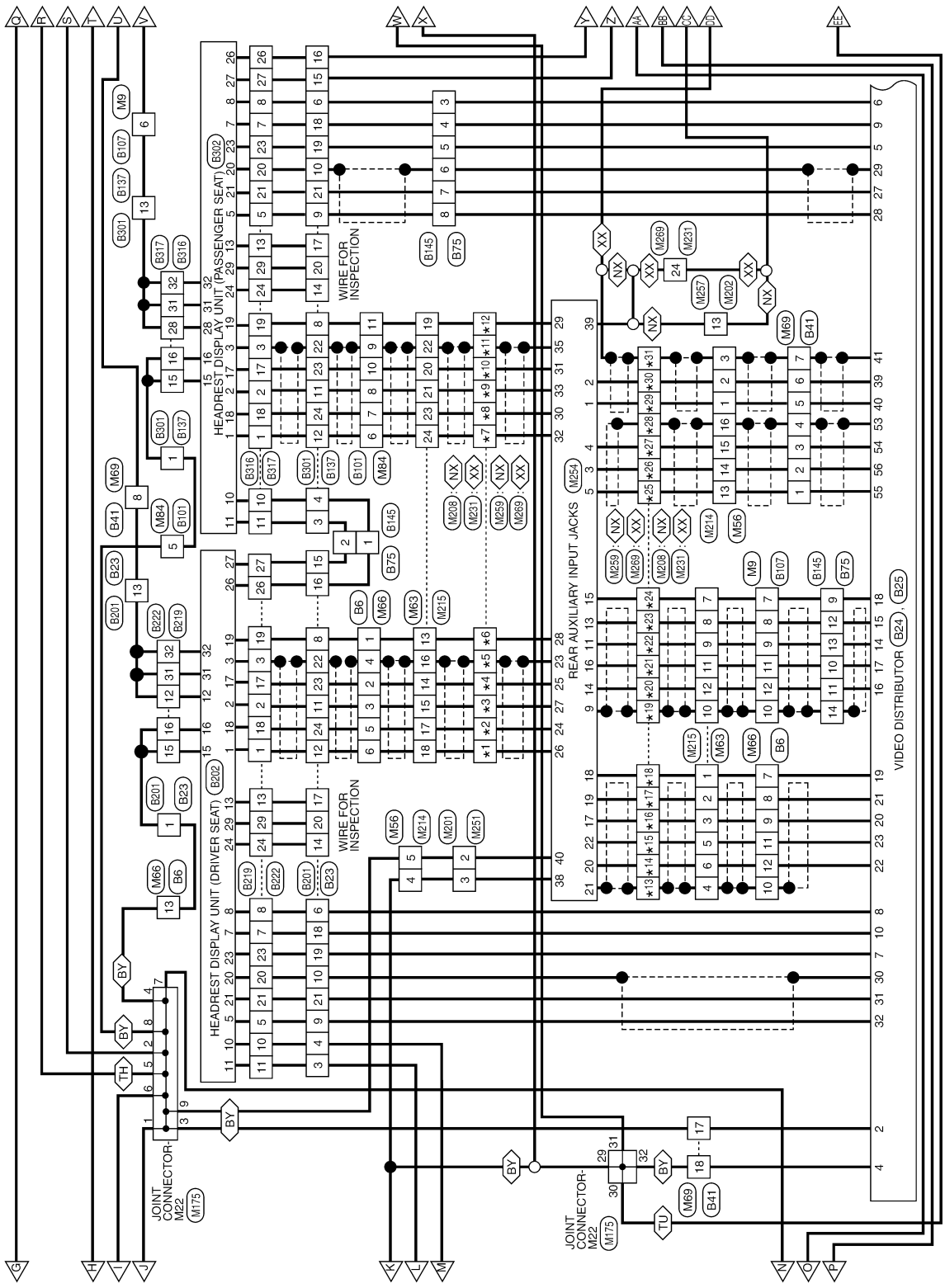
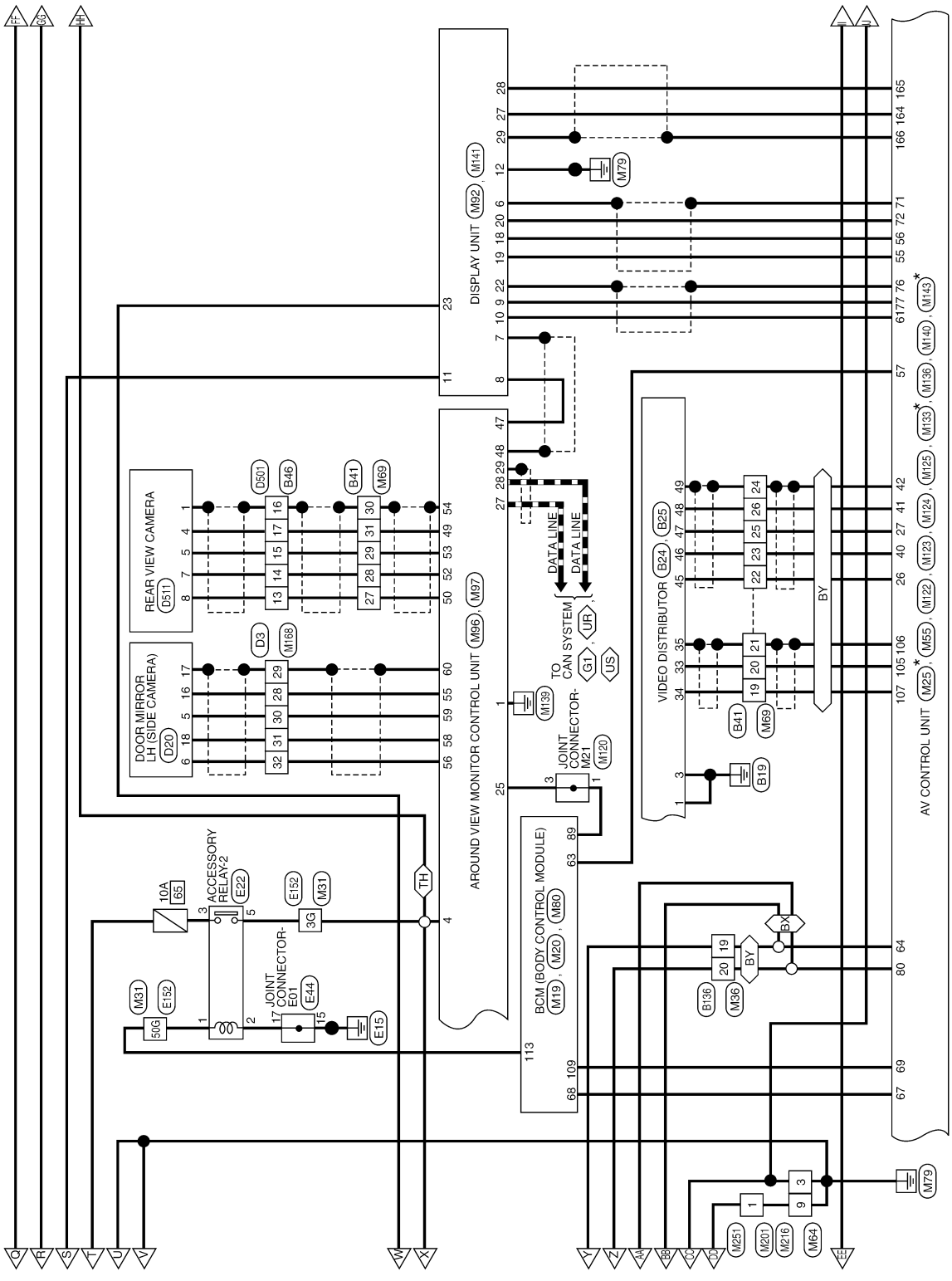
JOINT CONNECTOR-M56 M176
JOINT CONNECTOR-M57 M177
JOINT CONNECTOR-M58 M178
JOINT CONNECTOR-M59 M179
AV CONTROL UNIT M25, M55, M122, M123, M124, M125, M133, M136, M140, M143
ABNWA3136GB


HEADREST DISPLAY UNIT (PASSENGER SEAT)
HEADREST DISPLAY UNIT (DRIVER SEAT)
REAR AUXILIARY INPUT JACKS
VIDEO DISTRIBUTOR
WIRE FOR INSPECTION
JOINT CONNECTOR-M22
ABNWA3137GB


DISPLAY UNIT
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D511
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E15
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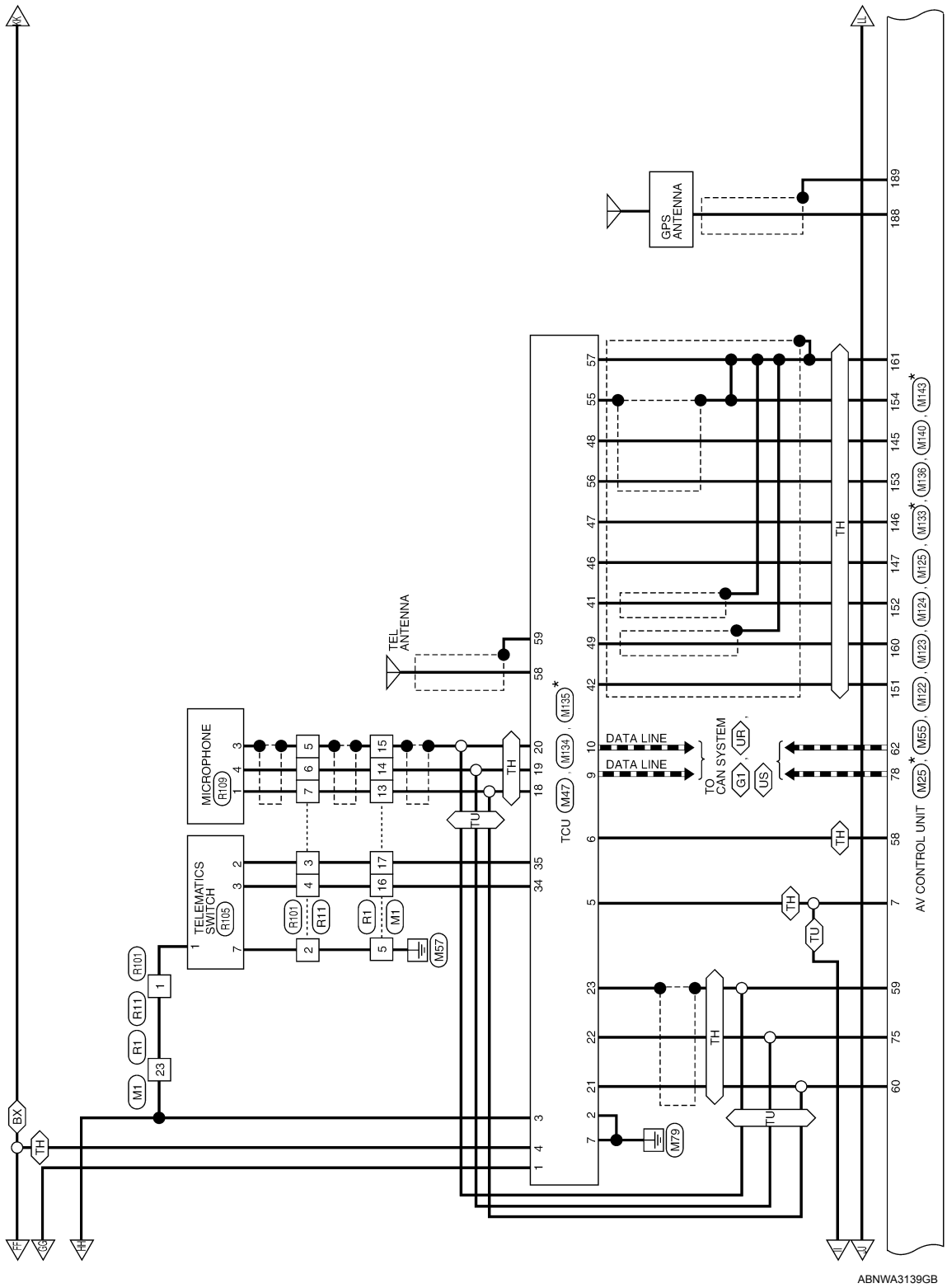
ABNWA3138GB


GPS ANTENNA
TEL ANTENNA
MICROPHONE
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TELEMATICS SWITCH
R105
TCU
M47
M135
M134
AV CONTROL UNIT
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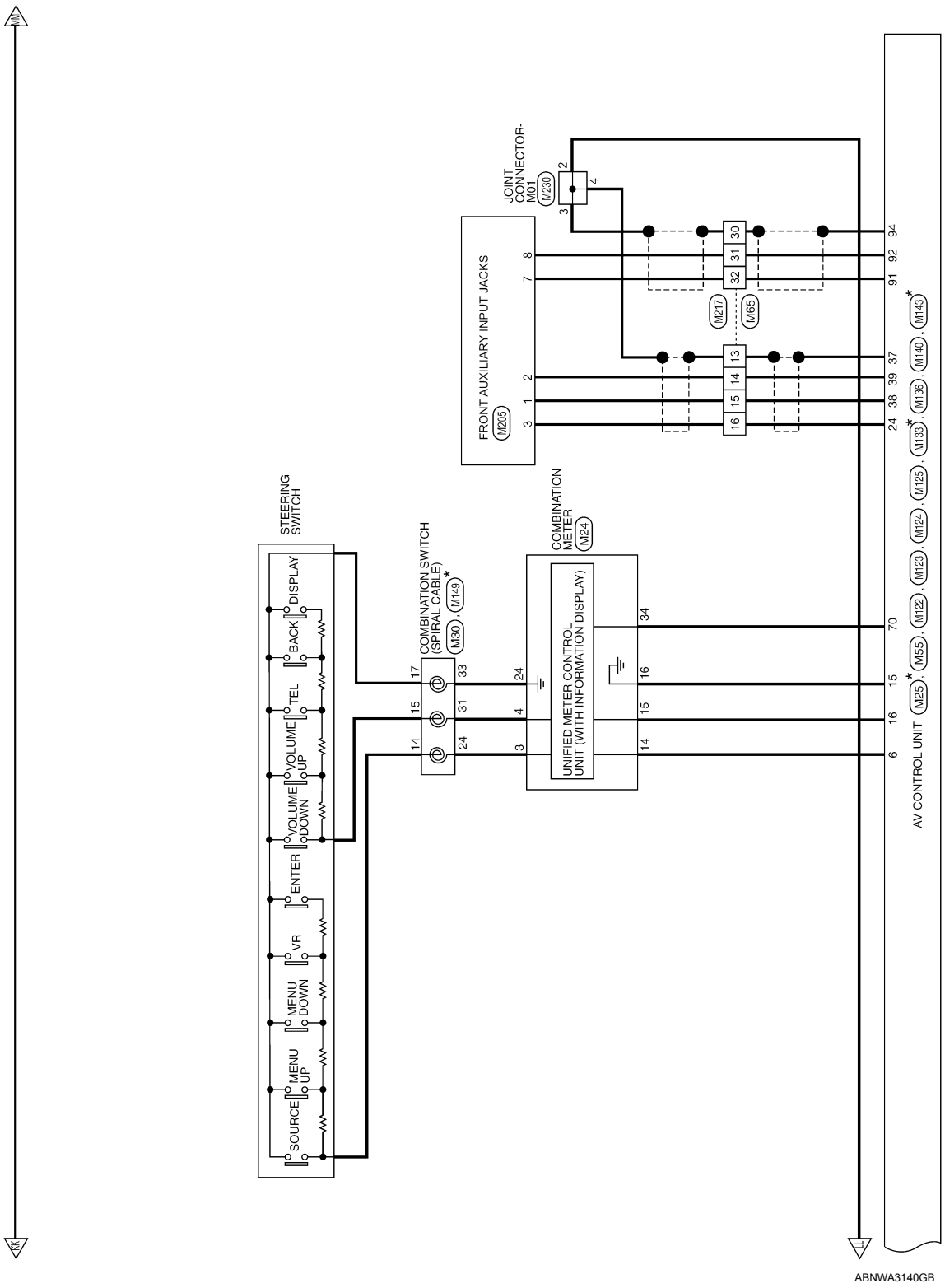
DATA LINE
DATA LINE
TO CAN SYSTEM
UR
G1
US
TH
TU
M57
M79
R101
R11
R1
M1
BX
ABNWA3139GB


JOINT CONNECTOR-M01 (M230)
FRONT AUXILIARY INPUT JACKS (M205)
STEERING SWITCH
COMBINATION SWITCH (SPIRAL CABLE) * (M30), (M149)
COMBINATION METER (M24)
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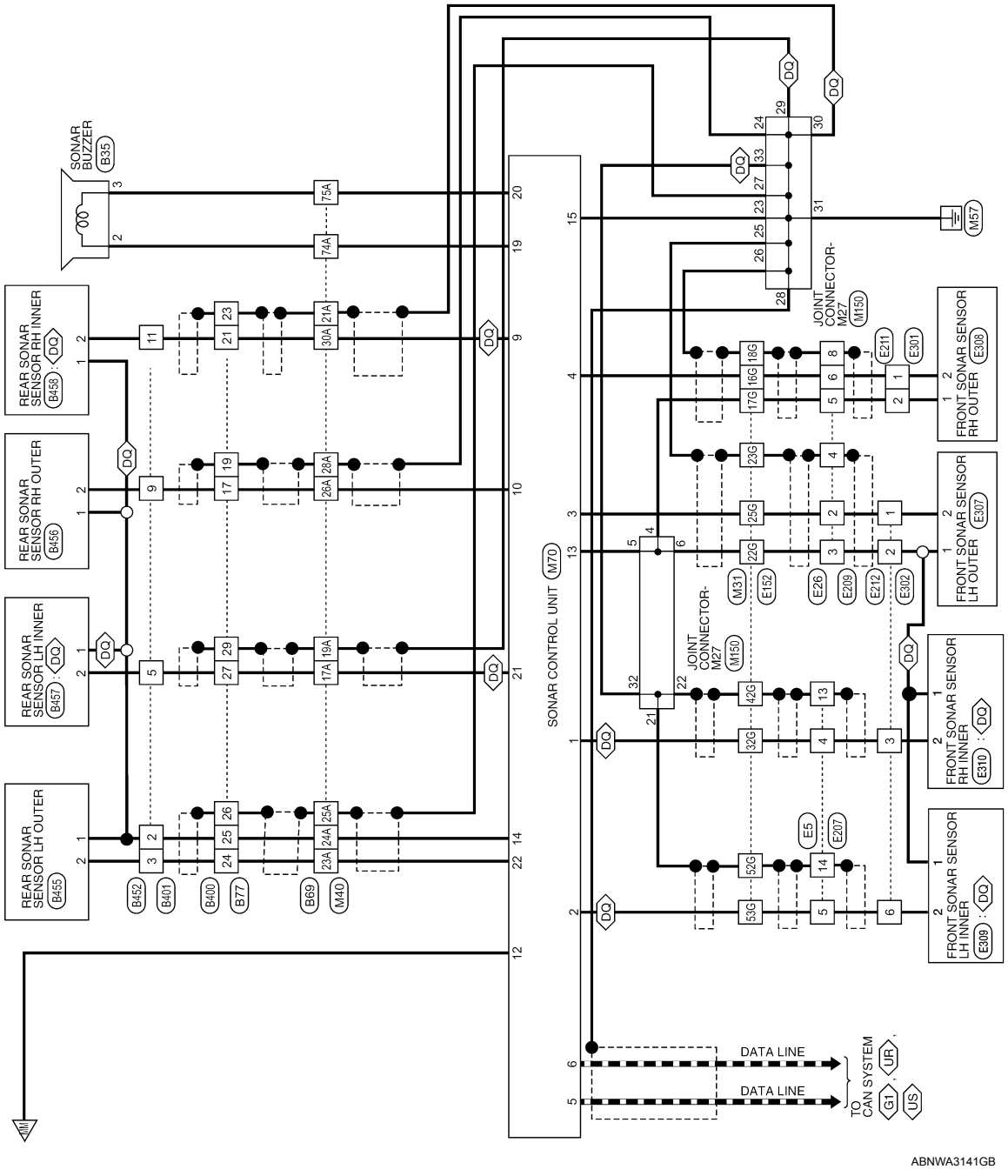
(M217)
(M65)
DISPLAY
BACK
TEL
VOLUME UP
VOLUME DOWN
ENTER
VR
MENU DOWN
MENU UP
SOURCE
ABNWA3140GB


SONAR BUZZER B35
REAR SONAR SENSOR RH INNER B458
REAR SONAR SENSOR RH OUTER B456
REAR SONAR SENSOR LH INNER B457
REAR SONAR SENSOR LH OUTER B455
SONAR CONTROL UNIT M70
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JOINT CONNECTOR-M27 M150
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FRONT SONAR SENSOR LH OUTER E307
FRONT SONAR SENSOR RH INNER E310
FRONT SONAR SENSOR LH INNER E309
DATA LINE
DATA LINE
TO CAN SYSTEM
ABNWA3141GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B1
Connector Name	REAR SIDE SPEAKER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	RR SUR SP LH+
2	G	RR SUR SP RH-

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	P	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	Y	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
3	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
4	R	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
4	SHIELD	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
5	P	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	W	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	V	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	V	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	W	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	G	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
9	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
10	SHIELD	TO MAIN HARNESS
11	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
11	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
12	W	TO MAIN HARNESS
13	SB	TO MAIN HARNESS
14	SB	TO MAIN HARNESS
15	LG	TO MAIN HARNESS
16	LG	TO MAIN HARNESS
17	SB	TO MAIN HARNESS
18	P	TO MAIN HARNESS
19	BG	TO MAIN HARNESS
20	W	TO MAIN HARNESS
21	R	TO MAIN HARNESS
22	B	TO MAIN HARNESS
23	SHIELD	TO MAIN HARNESS
24	–	TO MAIN HARNESS

Connector No.	B23
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO FRONT SEAT LH HARNESS
2	–	TO FRONT SEAT LH HARNESS
3	SB	TO FRONT SEAT LH HARNESS
4	LG	TO FRONT SEAT LH HARNESS
5	–	TO FRONT SEAT LH HARNESS
6	BR	TO FRONT SEAT LH HARNESS
7	–	TO FRONT SEAT LH HARNESS
8	P	TO FRONT SEAT LH HARNESS
9	L	TO FRONT SEAT LH HARNESS
10	SHIELD	TO FRONT SEAT LH HARNESS
11	R	TO FRONT SEAT LH HARNESS
12	B	TO FRONT SEAT LH HARNESS
13	B	TO FRONT SEAT LH HARNESS
14	–	TO FRONT SEAT LH HARNESS
15	SB	TO FRONT SEAT LH HARNESS
16	LG	TO FRONT SEAT LH HARNESS
17	–	TO FRONT SEAT LH HARNESS
18	L	TO FRONT SEAT LH HARNESS
19	SB	TO FRONT SEAT LH HARNESS
20	–	TO FRONT SEAT LH HARNESS
21	P	TO FRONT SEAT LH HARNESS
22	SHIELD	TO FRONT SEAT LH HARNESS
23	G	TO FRONT SEAT LH HARNESS
24	W	TO FRONT SEAT LH HARNESS

Connector No.	B24
Connector Name	VIDEO DISTRIBUTOR
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	V	BAT
3	B	GND
4	BG	ACC
5	BR	CONT. GND1
6	Y	ACC DET. OUT1
7	SB	CONT. GND
8	BR	ACC DET. OUT2
9	SB	AUX RQ. IN1
10	L	AUX REQ. IN2
11	–	–
12	–	–
13	–	–
14	R	RR1 HP RH+ OUT
15	G	RR1 HP RH- OUT
16	B	RR1 HP LH+ OUT
17	W	RR1 HP LH- OUT
18	V	AV GND 1(A GND)
19	V	AV GND 2(A GND)
20	B	REAR2 HP RH+
21	G	REAR2 HP RH-
22	W	REAR2 HP LH+
23	R	REAR2 HP LH-
24	–	–
25	–	–
26	–	–
27	W	RR1 COMP- OUT
28	B	RR1 COMP+ OUT
29	SHIELD	RR1 COMP SHIELD
30	SHIELD	REAR2 COMP SHIELD
31	P	REAR2 COMP-
32	L	REAR2 COMP+

Connector No.	B25
Connector Name	VIDEO DISTRIBUTOR
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

34	36	38	40	42	44	46	48	50	52	54	56
33	35	37	39	41	43	45	47	49	51	53	55

Terminal No.	Color of Wire	Signal Name
33	W	IT M COMP- IN
34	B	IT M COMP+ IN
35	SHIELD	COMP SHIELD
36	–	–
37	–	–
38	–	–
39	W	AUX VIDEO-IN
40	B	AUX VIDEO+IN
41	SHIELD	AUX SHIELD
42	–	–
43	–	–
44	–	–
45	W	AUDIO LH+ IN
46	R	AUDIO LH- IN
47	B	AUDIO RH+ IN
48	G	AUDIO RH- IN
49	SHIELD	AUDIO SHIELD
50	–	–
51	–	–
52	–	–
53	SHIELD	AUDIO SHIELD
54	B	AUDIO LH+ IN
55	R	AUDIO RH+ IN
56	W	AUDIO LH/RH- IN

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B35
Connector Name	SONAR BUZZER
Connector Type	TH04FW-NH
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	P	SOUNDER+
3	V	SOUNDER-
4	–	–

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS - (WITHOUT NAVI)
1	R	TO MAIN HARNESS - (WITH NAVI)
2	R	TO MAIN HARNESS - (WITHOUT NAVI)
2	W	TO MAIN HARNESS - (WITH NAVI)
3	B	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	R	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	BG	TO MAIN HARNESS - (WITHOUT NAVI)
17	V	TO MAIN HARNESS - (WITH NAVI)
18	SB	TO MAIN HARNESS - (WITHOUT NAVI)
18	W	TO MAIN HARNESS - (WITH NAVI)
19	W	TO MAIN HARNESS - (WITHOUT NAVI)
19	B	TO MAIN HARNESS - (WITH NAVI)
20	B	TO MAIN HARNESS - (WITHOUT NAVI)
20	W	TO MAIN HARNESS - (WITH NAVI)
21	R	TO MAIN HARNESS - (WITHOUT NAVI)
21	SHIELD	TO MAIN HARNESS - (WITH NAVI)
22	G	TO MAIN HARNESS - (WITHOUT NAVI)
22	W	TO MAIN HARNESS - (WITH NAVI)
23	SHIELD	TO MAIN HARNESS - (WITHOUT NAVI)
23	R	TO MAIN HARNESS - (WITH NAVI)
24	SHIELD	TO MAIN HARNESS
25	B	TO MAIN HARNESS
26	G	TO MAIN HARNESS
27	W	TO MAIN HARNESS - (WITH NAVI)
27	R	TO MAIN HARNESS - (WITHOUT NAVI)
28	R	TO MAIN HARNESS - (WITH NAVI)
28	B	TO MAIN HARNESS - (WITHOUT NAVI)
29	G	TO MAIN HARNESS - (WITH NAVI)
29	W	TO MAIN HARNESS - (WITHOUT NAVI)
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	V	TO BACK DOOR LH HARNESS
2	Y	TO BACK DOOR LH HARNESS
3	BR	TO BACK DOOR LH HARNESS
4	SB	TO BACK DOOR LH HARNESS
5	LG	TO BACK DOOR LH HARNESS
6	L	TO BACK DOOR LH HARNESS
7	LG	TO BACK DOOR LH HARNESS
8	BR	TO BACK DOOR LH HARNESS
9	W	TO BACK DOOR LH HARNESS
10	R	TO BACK DOOR LH HARNESS
11	G	TO BACK DOOR LH HARNESS
12	L	TO BACK DOOR LH HARNESS
13	W	TO BACK DOOR LH HARNESS - (WITH NAVI)
13	R	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
14	R	TO BACK DOOR LH HARNESS - (WITH NAVI)
14	B	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
15	G	TO BACK DOOR LH HARNESS - (WITH NAVI)
15	W	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
16	SHIELD	TO BACK DOOR LH HARNESS
17	B	TO BACK DOOR LH HARNESS
18	–	TO BACK DOOR LH HARNESS
19	W	TO BACK DOOR LH HARNESS
20	W	TO BACK DOOR LH HARNESS
21	G	TO BACK DOOR LH HARNESS
22	BR	TO BACK DOOR LH HARNESS
23	GR	TO BACK DOOR LH HARNESS
24	G	TO BACK DOOR LH HARNESS

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	L	TO BODY HARNESS RH
6	BR	TO BODY HARNESS RH
7	Y	TO BODY HARNESS RH
8	–	TO BODY HARNESS RH
9	G	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	P	TO BODY HARNESS RH
12	R	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	R	TO BODY HARNESS RH
15	B	TO BODY HARNESS RH
16	W	TO BODY HARNESS RH

Connector No.	B51
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO REAR DOOR LH HARNESS
2	BR	TO REAR DOOR LH HARNESS
3	B	TO REAR DOOR LH HARNESS
4	R	TO REAR DOOR LH HARNESS
5	–	TO REAR DOOR LH HARNESS
6	–	TO REAR DOOR LH HARNESS
7	–	TO REAR DOOR LH HARNESS
8	Y	TO REAR DOOR LH HARNESS
9	–	TO REAR DOOR LH HARNESS
10	–	TO REAR DOOR LH HARNESS
11	R	TO REAR DOOR LH HARNESS
12	P	TO REAR DOOR LH HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	–	TO MAIN HARNESS
2A	Y	TO MAIN HARNESS
3A	Y	TO MAIN HARNESS
4A	G	TO MAIN HARNESS
5A	–	TO MAIN HARNESS
6A	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	R	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	BR	TO MAIN HARNESS
8A	G	TO MAIN HARNESS
9A	P	TO MAIN HARNESS
10A	–	TO MAIN HARNESS
11A	W	TO MAIN HARNESS
12A	G	TO MAIN HARNESS
13A	–	TO MAIN HARNESS
14A	R	TO MAIN HARNESS
15A	G	TO MAIN HARNESS
16A	W	TO MAIN HARNESS
17A	B	TO MAIN HARNESS
18A	B	TO MAIN HARNESS
19A	SHIELD	TO MAIN HARNESS
20A	W	TO MAIN HARNESS
21A	SHIELD	TO MAIN HARNESS
22A	–	TO MAIN HARNESS
23A	W	TO MAIN HARNESS
24A	B	TO MAIN HARNESS
25A	SHIELD	TO MAIN HARNESS
26A	B	TO MAIN HARNESS
27A	B	TO MAIN HARNESS
28A	SHIELD	TO MAIN HARNESS
29A	R	TO MAIN HARNESS
30A	B	TO MAIN HARNESS
31A	BR	TO MAIN HARNESS
32A	–	TO MAIN HARNESS
33A	W	TO MAIN HARNESS
34A	B	TO MAIN HARNESS
35A	SHIELD	TO MAIN HARNESS
36A	–	TO MAIN HARNESS
37A	LG	TO MAIN HARNESS
38A	V	TO MAIN HARNESS
39A	SB	TO MAIN HARNESS
40A	BR	TO MAIN HARNESS
41A	Y	TO MAIN HARNESS
42A	–	TO MAIN HARNESS
43A	–	TO MAIN HARNESS
44A	V	TO MAIN HARNESS
45A	G	TO MAIN HARNESS
46A	V	TO MAIN HARNESS
47A	L	TO MAIN HARNESS
48A	SB	TO MAIN HARNESS
49A	G	TO MAIN HARNESS
50A	W	TO MAIN HARNESS
51A	–	TO MAIN HARNESS
52A	–	TO MAIN HARNESS
53A	R	TO MAIN HARNESS
54A	SB	TO MAIN HARNESS
55A	LG	TO MAIN HARNESS
56A	Y	TO MAIN HARNESS
57A	SB	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
57A	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
58A	BR	TO MAIN HARNESS
59A	BR	TO MAIN HARNESS
60A	L	TO MAIN HARNESS
61A	Y	TO MAIN HARNESS
62A	–	TO MAIN HARNESS
63A	P	TO MAIN HARNESS
64A	R	TO MAIN HARNESS
65A	SB	TO MAIN HARNESS
66A	L	TO MAIN HARNESS
67A	LG	TO MAIN HARNESS
68A	P	TO MAIN HARNESS
69A	W	TO MAIN HARNESS
70A	G	TO MAIN HARNESS
71A	BR	TO MAIN HARNESS
72A	–	TO MAIN HARNESS
73A	Y	TO MAIN HARNESS
74A	P	TO MAIN HARNESS
75A	V	TO MAIN HARNESS
76A	R	TO MAIN HARNESS
77A	Y	TO MAIN HARNESS
78A	LG	TO MAIN HARNESS
79A	BR	TO MAIN HARNESS
80A	Y	TO MAIN HARNESS
81A	L	TO MAIN HARNESS
82A	BG	TO MAIN HARNESS
83A	Y	TO MAIN HARNESS
84A	LG	TO MAIN HARNESS
85A	SHIELD	TO MAIN HARNESS
86A	LG	TO MAIN HARNESS
87A	SB	TO MAIN HARNESS
88A	BG	TO MAIN HARNESS
89A	L	TO MAIN HARNESS
90A	P	TO MAIN HARNESS
91A	L	TO MAIN HARNESS
92A	LG	TO MAIN HARNESS
93A	B	TO MAIN HARNESS
94A	–	TO MAIN HARNESS
95A	–	TO MAIN HARNESS
96A	–	TO MAIN HARNESS
97A	BR	TO MAIN HARNESS
98A	L	TO MAIN HARNESS
99A	–	TO MAIN HARNESS
100A	–	TO MAIN HARNESS

Connector No.	B73
Connector Name	SUBWOOFER
Connector Type	RS04FGY-PR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	BASS BOX2+
2	W	BASS BOX1+
3	G	BASS BOX2-
4	R	BASS BOX1-

Connector No.	B75
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	TO BODY HARNESS RH
2	SB	TO BODY HARNESS RH
3	L	TO BODY HARNESS RH
4	SB	TO BODY HARNESS RH
5	BR	TO BODY HARNESS RH
6	SHIELD	TO BODY HARNESS RH
7	W	TO BODY HARNESS RH
8	B	TO BODY HARNESS RH
9	V	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	B	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	R	TO BODY HARNESS RH
14	SHIELD	TO BODY HARNESS RH
15	–	TO BODY HARNESS RH
16	–	TO BODY HARNESS RH

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 HARNESS
2	–	TO BODY NO. 3 HARNESS
3	–	TO BODY NO. 3 HARNESS
4	G	TO BODY NO. 3 HARNESS
5	W	TO BODY NO. 3 HARNESS
6	R	TO BODY NO. 3 HARNESS
7	W	TO BODY NO. 3 HARNESS
8	B	TO BODY NO. 3 HARNESS
9	W	TO BODY NO. 3 HARNESS
10	G	TO BODY NO. 3 HARNESS
11	–	TO BODY NO. 3 HARNESS
12	L	TO BODY NO. 3 HARNESS
13	Y	TO BODY NO. 3 HARNESS
14	–	TO BODY NO. 3 HARNESS
15	G	TO BODY NO. 3 HARNESS
16	–	TO BODY NO. 3 HARNESS
17	B	TO BODY NO. 3 HARNESS
18	B	TO BODY NO. 3 HARNESS
19	SHIELD	TO BODY NO. 3 HARNESS
20	R	TO BODY NO. 3 HARNESS
21	B	TO BODY NO. 3 HARNESS
22	W	TO BODY NO. 3 HARNESS
23	SHIELD	TO BODY NO. 3 HARNESS
24	W	TO BODY NO. 3 HARNESS
25	B	TO BODY NO. 3 HARNESS
26	SHIELD	TO BODY NO. 3 HARNESS
27	B	TO BODY NO. 3 HARNESS
28	B	TO BODY NO. 3 HARNESS
29	SHIELD	TO BODY NO. 3 HARNESS
30	LG	TO BODY NO. 3 HARNESS
31	W	TO BODY NO. 3 HARNESS
32	–	TO BODY NO. 3 HARNESS

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	W	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	R	TO MAIN HARNESS
5	V	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO MAIN HARNESS
10	G	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	P	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	L	TO MAIN HARNESS
18	P	TO MAIN HARNESS
19	LG	TO MAIN HARNESS
20	BR	TO MAIN HARNESS
21	LG	TO MAIN HARNESS
22	LG	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	V	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
24	BR	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
25	SB	TO MAIN HARNESS
26	LG	TO MAIN HARNESS
27	Y	TO MAIN HARNESS
28	Y	TO MAIN HARNESS
29	SB	TO MAIN HARNESS
30	LG	TO MAIN HARNESS
31	G	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B107
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	–	TO MAIN HARNESS
2	–	TO MAIN HARNESS
3	–	TO MAIN HARNESS
4	–	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	V	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	R	TO MAIN HARNESS
10	SHIELD	TO MAIN HARNESS
11	B	TO MAIN HARNESS
12	W	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	–	TO MAIN HARNESS
18	–	TO MAIN HARNESS
19	V	TO MAIN HARNESS
20	Y	TO MAIN HARNESS
21	SHIELD	TO MAIN HARNESS
22	B	TO MAIN HARNESS
23	R	TO MAIN HARNESS
24	W	TO MAIN HARNESS

Connector No.	B111
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	LG	TO MAIN HARNESS
5	Y	TO MAIN HARNESS
6	P	TO MAIN HARNESS
7	R	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	W	TO MAIN HARNESS
10	G	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	W	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
13	G	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
14	P	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
14	W	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
15	G	TO MAIN HARNESS
16	R	TO MAIN HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B129
Connector Name	BOSE SPEAKER AMP. (WITHOUT SURROUND SOUND SYSTEM)
Connector Type	SGA12FBR-SJA2
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	RR SIDE TWDR LH AND RH+
2	G	RR SIDE TWDR LH AND RH-
3	W	INST TWDR RH-
4	G	INST TWDR RH+
5	R	BASS BOX WFR2+
6	G	BASS BOX WFR2-
7	B	GND
8	B	BASS BOX WFR1-
9	W	RR DR SP RH-
10	LG	BAT
11	Y	BAT
12	B	GND
13	W	BASS BOX WFR1+
14	G	RR DR SP RH+

Connector No.	B130
Connector Name	BOSE SPEAKER AMP (WITHOUT SURROUND SOUND SYSTEM)
Connector Type	SCA19FBR-SGA4
Connector Color	BROWN

H.S.

37	36	35	34	33		32	31	30	29	28
27	26	25	24	23	22	21	20	19	18	17	16	15

Terminal No.	Color of Wire	Signal Name
15	R	RR DR SP LH-
16	P	INST CENTER SP+
17	R	INST CENTER SP-
18	G	FR DR SP LH+
19	R	FR DR SP LH-

20	W	AMP ON
21	–	–
22	–	–
23	W	RR LH+IN
24	B	RR LH+IN
25	W	RR RH-IN
26	B	RR RH+IN
27	–	–
28	P	RR DR SP LH+
29	R	INST TWDR LH+
30	G	INST TWDR LH-
31	W	FR DR SP RH+
32	P	FR DR SP RH-
33	B	FR RH+IN
34	W	FR RH-IN
35	B	FR LH+IN
36	W	FR LH-IN
37	–	–

Connector No.	B136
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	W	TO MAIN HARNESS
3	BR	TO MAIN HARNESS
4	G	TO MAIN HARNESS
5	BG	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	W	TO MAIN HARNESS
8	W	TO MAIN HARNESS
9	B	TO MAIN HARNESS
10	W	TO MAIN HARNESS
11	SHIELD	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	SHIELD	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	W	TO MAIN HARNESS
17	SHIELD	TO MAIN HARNESS
18	W	TO MAIN HARNESS
19	LG	TO MAIN HARNESS - (WITHOUT SURROUND SOUND SYSTEM)

19	B	TO MAIN HARNESS - (WITH SURROUND SOUND SYSTEM)
20	SB	TO MAIN HARNESS - (WITHOUT SURROUND SOUND SYSTEM)
20	W	TO MAIN HARNESS - (WITH SURROUND SOUND SYSTEM)
21	B	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	SHIELD	TO MAIN HARNESS
24	B	TO MAIN HARNESS
25	W	TO MAIN HARNESS
26	SHIELD	TO MAIN HARNESS
27	B	TO MAIN HARNESS
28	W	TO MAIN HARNESS
29	SHIELD	TO MAIN HARNESS
30	B	TO MAIN HARNESS
31	W	TO MAIN HARNESS
32	L	TO MAIN HARNESS
33	Y	TO MAIN HARNESS
34	–	TO MAIN HARNESS
35	–	TO MAIN HARNESS
36	–	TO MAIN HARNESS
37	BR	TO MAIN HARNESS
38	–	TO MAIN HARNESS
39	–	TO MAIN HARNESS
40	–	TO MAIN HARNESS

Connector No.	B137
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO FRONT SEAT RH HARNESS
2	–	TO FRONT SEAT RH HARNESS
3	SB	TO FRONT SEAT RH HARNESS
4	LG	TO FRONT SEAT RH HARNESS
5	SHIELD	TO FRONT SEAT RH HARNESS
6	SB	TO FRONT SEAT RH HARNESS
7	–	TO FRONT SEAT RH HARNESS
8	SB	TO FRONT SEAT RH HARNESS
9	O	TO FRONT SEAT RH HARNESS
10	SHIELD	TO FRONT SEAT RH HARNESS
11	R	TO FRONT SEAT RH HARNESS
12	B	TO FRONT SEAT RH HARNESS
13	B	TO FRONT SEAT RH HARNESS

14	–	TO FRONT SEAT RH HARNESS
15	B/Y	TO FRONT SEAT RH HARNESS - (WITH SURROUND SOUND SYSTEM)
15	SB	TO FRONT SEAT RH HARNESS - (WITHOUT SURROUND SOUND SYSTEM)
16	L/G	TO FRONT SEAT RH HARNESS
17	–	TO FRONT SEAT RH HARNESS
18	L	TO FRONT SEAT RH HARNESS
19	BR	TO FRONT SEAT RH HARNESS
20	–	TO FRONT SEAT RH HARNESS
21	Y	TO FRONT SEAT RH HARNESS
22	SHIELD	TO FRONT SEAT RH HARNESS
23	G	TO FRONT SEAT RH HARNESS
24	W	TO FRONT SEAT RH HARNESS

Connector No.	B139
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR RH HARNESS
2	–	TO REAR DOOR RH HARNESS
3	B	TO REAR DOOR RH HARNESS
4	G	TO REAR DOOR RH HARNESS
5	–	TO REAR DOOR RH HARNESS
6	BR	TO REAR DOOR RH HARNESS
7	Y	TO REAR DOOR RH HARNESS
8	Y	TO REAR DOOR RH HARNESS
9	–	TO REAR DOOR RH HARNESS
10	–	TO REAR DOOR RH HARNESS
11	SB	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
11	W	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
12	LG	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
12	G	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO BODY HARNESS
2	W	TO BODY HARNESS
3	B	TO BODY HARNESS
4	L	TO BODY HARNESS
5	BR	TO BODY HARNESS
6	Y	TO BODY HARNESS
7	LG	TO BODY HARNESS
8	–	TO BODY HARNESS
9	G	TO BODY HARNESS
10	W	TO BODY HARNESS
11	P	TO BODY HARNESS
12	R	TO BODY HARNESS
13	G	TO BODY HARNESS
14	R	TO BODY HARNESS
15	B	TO BODY HARNESS
16	W	TO BODY HARNESS

8	O	TO BODY HARNESS
9	V	TO BODY HARNESS
10	B	TO BODY HARNESS
11	W	TO BODY HARNESS
12	G	TO BODY HARNESS
13	R	TO BODY HARNESS
14	SHIELD	TO BODY HARNESS
15	–	TO BODY HARNESS
16	–	TO BODY HARNESS

Connector No.	B153
Connector Name	REAR SIDE SPEAKER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	W	RR SUR SP RH+
2	G	RR SUR SP RH-

Connector No.	B171
Connector Name	JOINT CONNECTOR-B23
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	RR SIDE TWDR LH AND RH+
3	W	RR SIDE TWDR LH AND RH+
4	W	RR SIDE TWDR LH AND RH+

Connector No.	B172
Connector Name	JOINT CONNECTOR-B25
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	G	RR SIDE TWDR LH AND RH-
3	G	RR SIDE TWDR LH AND RH-
4	G	RR SIDE TWDR LH AND RH-

20	GR	TO BODY HARNESS
21	G	TO BODY HARNESS
22	LG	TO BODY HARNESS
23	B	TO BODY HARNESS
24	R	TO BODY HARNESS

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	W	TO BODY HARNESS
2	–	TO BODY HARNESS
3	P	TO BODY HARNESS
4	LG	TO BODY HARNESS
5	–	TO BODY HARNESS
6	G	TO BODY HARNESS
7	–	TO BODY HARNESS
8	V	TO BODY HARNESS
9	Y	TO BODY HARNESS
10	P	TO BODY HARNESS
11	G	TO BODY HARNESS
12	W	TO BODY HARNESS
13	G	TO BODY HARNESS
14	SB	TO BODY HARNESS
15	LG	TO BODY HARNESS
16	R	TO BODY HARNESS
17	BG	TO BODY HARNESS
18	W	TO BODY HARNESS
19	Y	TO BODY HARNESS

Connector No.	B145
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	TO BODY HARNESS
2	SB	TO BODY HARNESS
3	SB	TO BODY HARNESS
4	L	TO BODY HARNESS
5	BR	TO BODY HARNESS
6	SHIELD	TO BODY HARNESS
7	Y	TO BODY HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B202
Connector Name	HEADREST DISPLAY UNIT (DRIVER SEAT)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	REAR1 HP LH-
2	G	REAR1 HP RH-
3	LG	REAR1 HP SHIELD
4	–	–
5	Y	REAR1 COMP+
6	–	–
7	W	AUX REQ OUT
8	G	ACC DET IN
9	–	–
10	LG	M-CAN 1L
11	P	M-CAN 1H
12	G	LOCATION DET LH (LH ONLY)
13	BR	ILL
14	–	–
15	W	BAT
16	W	BAT
17	B	REAR1 HP LH-
18	R	REAR1 HP RH-
19	V	AV GND
20	P	REAR1 COMP SHIELD
21	G	REAR1 COMP-
22	–	–
23	Y	CONT GND
24	SB	CON CK B
25	–	–
26	R	M-CAN 2L
27	LG	M-CAN 2H
28	–	–
29	GR	CON CK A
30	–	–
31	G	GND
32	G	GND

Connector No.	B219
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT LH HARNESS
2	G	TO FRONT SEAT LH HARNESS
3	LG	TO FRONT SEAT LH HARNESS
4	–	TO FRONT SEAT LH HARNESS
5	Y	TO FRONT SEAT LH HARNESS
6	–	TO FRONT SEAT LH HARNESS
7	W	TO FRONT SEAT LH HARNESS
8	G	TO FRONT SEAT LH HARNESS
9	–	TO FRONT SEAT LH HARNESS
10	LG	TO FRONT SEAT LH HARNESS
11	P	TO FRONT SEAT LH HARNESS
12	G	TO FRONT SEAT LH HARNESS
13	BR	TO FRONT SEAT LH HARNESS
14	–	TO FRONT SEAT LH HARNESS
15	W	TO FRONT SEAT LH HARNESS
16	W	TO FRONT SEAT LH HARNESS
17	B	TO FRONT SEAT LH HARNESS
18	R	TO FRONT SEAT LH HARNESS
19	V	TO FRONT SEAT LH HARNESS
20	P	TO FRONT SEAT LH HARNESS
21	G	TO FRONT SEAT LH HARNESS
22	–	TO FRONT SEAT LH HARNESS
23	Y	TO FRONT SEAT LH HARNESS
24	SB	TO FRONT SEAT LH HARNESS
25	–	TO FRONT SEAT LH HARNESS
26	R	TO FRONT SEAT LH HARNESS
27	LG	TO FRONT SEAT LH HARNESS
28	–	TO FRONT SEAT LH HARNESS
29	GR	TO FRONT SEAT LH HARNESS
30	–	TO FRONT SEAT LH HARNESS
31	G	TO FRONT SEAT LH HARNESS
32	G	TO FRONT SEAT LH HARNESS

Connector No.	B222
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT LH HARNESS
2	G	TO FRONT SEAT LH HARNESS
3	LG	TO FRONT SEAT LH HARNESS
4	–	TO FRONT SEAT LH HARNESS
5	Y	TO FRONT SEAT LH HARNESS
6	–	TO FRONT SEAT LH HARNESS
7	W	TO FRONT SEAT LH HARNESS
8	G	TO FRONT SEAT LH HARNESS
9	–	TO FRONT SEAT LH HARNESS
10	LG	TO FRONT SEAT LH HARNESS
11	P	TO FRONT SEAT LH HARNESS
12	G	TO FRONT SEAT LH HARNESS
13	BR	TO FRONT SEAT LH HARNESS
14	–	TO FRONT SEAT LH HARNESS
15	W	TO FRONT SEAT LH HARNESS
16	W	TO FRONT SEAT LH HARNESS
17	B	TO FRONT SEAT LH HARNESS
18	R	TO FRONT SEAT LH HARNESS
19	V	TO FRONT SEAT LH HARNESS
20	P	TO FRONT SEAT LH HARNESS
21	G	TO FRONT SEAT LH HARNESS
22	–	TO FRONT SEAT LH HARNESS
23	Y	TO FRONT SEAT LH HARNESS
24	SB	TO FRONT SEAT LH HARNESS
25	–	TO FRONT SEAT LH HARNESS
26	R	TO FRONT SEAT LH HARNESS
27	LG	TO FRONT SEAT LH HARNESS
28	–	TO FRONT SEAT LH HARNESS
29	GR	TO FRONT SEAT LH HARNESS
30	–	TO FRONT SEAT LH HARNESS
31	G	TO FRONT SEAT LH HARNESS
32	G	TO FRONT SEAT LH HARNESS

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	W	TO FRONT SEAT RH HARNESS
2	–	TO FRONT SEAT RH HARNESS
3	P	TO FRONT SEAT RH HARNESS
4	LG	TO FRONT SEAT RH HARNESS
5	SHIELD	TO FRONT SEAT RH HARNESS
6	G	TO FRONT SEAT RH HARNESS
7	–	TO FRONT SEAT RH HARNESS
8	V	TO FRONT SEAT RH HARNESS
9	Y	TO FRONT SEAT RH HARNESS
10	P	TO FRONT SEAT RH HARNESS
11	G	TO FRONT SEAT RH HARNESS
12	W	TO FRONT SEAT RH HARNESS
13	G	TO FRONT SEAT RH HARNESS
14	SB	TO FRONT SEAT RH HARNESS
15	LG	TO FRONT SEAT RH HARNESS
16	R	TO FRONT SEAT RH HARNESS
17	BR	TO FRONT SEAT RH HARNESS
18	W	TO FRONT SEAT RH HARNESS
19	Y	TO FRONT SEAT RH HARNESS
20	GR	TO FRONT SEAT RH HARNESS
21	G	TO FRONT SEAT RH HARNESS
22	LG	TO FRONT SEAT RH HARNESS
23	B	TO FRONT SEAT RH HARNESS
24	R	TO FRONT SEAT RH HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B302
Connector Name	HEADREST DISPLAY UNIT (PASSENGER SEAT)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	REAR1 HP LH+
2	G	REAR1 HP RH+
3	LG	REAR1 HP SHIELD
4	–	–
5	Y	REAR1 COMP+
6	–	–
7	W	AUX REQ OUT
8	G	ACC DET IN
9	–	–
10	LG	M-CAN 1L
11	P	M-CAN 1H
12	–	–
13	BR	ILL
14	–	–
15	W	BAT
16	W	BAT
17	B	REAR1 HP LH-
18	R	REAR1 HP RH-
19	V	AV GND
20	P	REAR1 COMP SHIELD
21	G	REAR1 COMP-
22	–	–
23	Y	CONT GND
24	SB	CON CK B
25	–	–
26	R	M-CAN 2L
27	LG	M-CAN 2H
28	G	LOCATION DET RH (RH ONLY)
29	GR	CON CK A
30	–	–
31	G	GND
32	G	GND

Connector No.	B316
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT RH HARNESS
2	G	TO FRONT SEAT RH HARNESS
3	LG	TO FRONT SEAT RH HARNESS
4	–	TO FRONT SEAT RH HARNESS
5	Y	TO FRONT SEAT RH HARNESS
6	–	TO FRONT SEAT RH HARNESS
7	W	TO FRONT SEAT RH HARNESS
8	G	TO FRONT SEAT RH HARNESS
9	–	TO FRONT SEAT RH HARNESS
10	LG	TO FRONT SEAT RH HARNESS
11	P	TO FRONT SEAT RH HARNESS
12	–	TO FRONT SEAT RH HARNESS
13	BR	TO FRONT SEAT RH HARNESS
14	–	TO FRONT SEAT RH HARNESS
15	W	TO FRONT SEAT RH HARNESS
16	W	TO FRONT SEAT RH HARNESS
17	B	TO FRONT SEAT RH HARNESS
18	R	TO FRONT SEAT RH HARNESS
19	V	TO FRONT SEAT RH HARNESS
20	P	TO FRONT SEAT RH HARNESS
21	G	TO FRONT SEAT RH HARNESS
22	–	TO FRONT SEAT RH HARNESS
23	Y	TO FRONT SEAT RH HARNESS
24	SB	TO FRONT SEAT RH HARNESS
25	–	TO FRONT SEAT RH HARNESS
26	R	TO FRONT SEAT RH HARNESS
27	LG	TO FRONT SEAT RH HARNESS
28	G	TO FRONT SEAT RH HARNESS
29	GR	TO FRONT SEAT RH HARNESS
30	–	TO FRONT SEAT RH HARNESS
31	G	TO FRONT SEAT RH HARNESS
32	G	TO FRONT SEAT RH HARNESS

Connector No.	B317
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT RH HARNESS
2	G	TO FRONT SEAT RH HARNESS
3	LG	TO FRONT SEAT RH HARNESS
4	–	TO FRONT SEAT RH HARNESS
5	Y	TO FRONT SEAT RH HARNESS
6	–	TO FRONT SEAT RH HARNESS
7	W	TO FRONT SEAT RH HARNESS
8	G	TO FRONT SEAT RH HARNESS
9	–	TO FRONT SEAT RH HARNESS
10	LG	TO FRONT SEAT RH HARNESS
11	P	TO FRONT SEAT RH HARNESS
12	–	TO FRONT SEAT RH HARNESS
13	BR	TO FRONT SEAT RH HARNESS
14	–	TO FRONT SEAT RH HARNESS
15	W	TO FRONT SEAT RH HARNESS
16	W	TO FRONT SEAT RH HARNESS
17	B	TO FRONT SEAT RH HARNESS
18	R	TO FRONT SEAT RH HARNESS
19	V	TO FRONT SEAT RH HARNESS
20	P	TO FRONT SEAT RH HARNESS
21	G	TO FRONT SEAT RH HARNESS
22	–	TO FRONT SEAT RH HARNESS
23	Y	TO FRONT SEAT RH HARNESS
24	SB	TO FRONT SEAT RH HARNESS
25	–	TO FRONT SEAT RH HARNESS
26	R	TO FRONT SEAT RH HARNESS
27	LG	TO FRONT SEAT RH HARNESS
28	G	TO FRONT SEAT RH HARNESS
29	GR	TO FRONT SEAT RH HARNESS
30	–	TO FRONT SEAT RH HARNESS
31	G	TO FRONT SEAT RH HARNESS
32	G	TO FRONT SEAT RH HARNESS

Connector No.	B400
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS
2	–	TO BODY HARNESS
3	–	TO BODY HARNESS
4	G	TO BODY HARNESS
5	W	TO BODY HARNESS
6	R	TO BODY HARNESS
7	W	TO BODY HARNESS
8	B	TO BODY HARNESS
9	W	TO BODY HARNESS
10	G	TO BODY HARNESS
11	–	TO BODY HARNESS
12	L	TO BODY HARNESS
13	Y	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	B	TO BODY HARNESS
17	B	TO BODY HARNESS
18	B	TO BODY HARNESS
19	SHIELD	TO BODY HARNESS
20	R	TO BODY HARNESS
21	B	TO BODY HARNESS
22	W	TO BODY HARNESS
23	SHIELD	TO BODY HARNESS
24	W	TO BODY HARNESS
25	B	TO BODY HARNESS
26	SHIELD	TO BODY HARNESS
27	B	TO BODY HARNESS
28	B	TO BODY HARNESS
29	SHIELD	TO BODY HARNESS
30	LG	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	RH12MB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 SUB HARNESS
2	B	TO BODY NO. 3 SUB HARNESS
3	W	TO BODY NO. 3 SUB HARNESS
4	B	TO BODY NO. 3 SUB HARNESS
5	B	TO BODY NO. 3 SUB HARNESS
6	–	TO BODY NO. 3 SUB HARNESS
7	–	TO BODY NO. 3 SUB HARNESS
8	B	TO BODY NO. 3 SUB HARNESS
9	B	TO BODY NO. 3 SUB HARNESS
10	W	TO BODY NO. 3 SUB HARNESS
11	B	TO BODY NO. 3 SUB HARNESS
12	R	TO BODY NO. 3 SUB HARNESS

Connector No.	B452
Connector Name	WIRE TO WIRE
Connector Type	RH12FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 HARNESS
2	P	TO BODY NO. 3 HARNESS
3	G	TO BODY NO. 3 HARNESS
4	L	TO BODY NO. 3 HARNESS
5	Y	TO BODY NO. 3 HARNESS
6	–	TO BODY NO. 3 HARNESS
7	–	TO BODY NO. 3 HARNESS
8	L	TO BODY NO. 3 HARNESS
9	W	TO BODY NO. 3 HARNESS
10	P	TO BODY NO. 3 HARNESS
11	G	TO BODY NO. 3 HARNESS

12	R	TO BODY NO. 3 HARNESS

Connector No.	B455
Connector Name	REAR SONAR SENSOR LH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	G	ROL SENSOR SIGNAL
3	–	–

Connector No.	B456
Connector Name	REAR SONAR SENSOR RH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	W	ROR SENSOR SIGNAL
3	–	–

Connector No.	B457
Connector Name	REAR SONAR SENSOR LH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	Y	RIL SENSOR SIGNAL
3	–	–

Connector No.	B458
Connector Name	REAR SONAR SENSOR RH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	G	RIR SENSOR SIGNAL
3	–	–

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

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	Y	TO MAIN HARNESS
3	G/B	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	Y	TO MAIN HARNESS
8	W	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	V	TO MAIN HARNESS
11	BR	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	L	TO MAIN HARNESS
14	SHIELD	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	W	TO MAIN HARNESS

Terminal No.	Color of Wire	Signal Name

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	G/B	TO MAIN HARNESS
4	SB	TO MAIN HARNESS
5	LG	TO MAIN HARNESS
6	L	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
9	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
10	BR	TO MAIN HARNESS
11	Y	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	Y	TO MAIN HARNESS
14	LG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
14	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	BR	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
15	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	LG	TO MAIN HARNESS
17	L	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	BG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	BR	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	L	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	Y	TO MAIN HARNESS
20	LG	TO MAIN HARNESS
21	LG	TO MAIN HARNESS
22	Y	TO MAIN HARNESS
23	LG	TO MAIN HARNESS
24	SB	TO MAIN HARNESS
25	BR	TO MAIN HARNESS
26	B	TO MAIN HARNESS
27	–	TO MAIN HARNESS
28	G	TO MAIN HARNESS
29	SHIELD	TO MAIN HARNESS
30	R	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	W	TO MAIN HARNESS
33	V	TO MAIN HARNESS
34	Y	TO MAIN HARNESS
35	BG	TO MAIN HARNESS
36	SB	TO MAIN HARNESS
37	V	TO MAIN HARNESS
38	LG	TO MAIN HARNESS
39	Y	TO MAIN HARNESS
40	BR	TO MAIN HARNESS

Connector No.	D6
Connector Name	DOOR MIRROR LH (WITH AROUND VIEW MONITOR)
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	Y	BATTERY
8	LG	CLOSE
9	Y	OPEN
10	BG	MIRROR MOTOR [LH COMMON (DOWN&RIGHT)]
11	L	MIRROR MOTOR [LH HORIZONTAL(LEFT)]
12	LG	MIRROR MOTOR [LH VERTICAL (UP)]
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	–	–
19	B	TURN -
20	SB	TURN +
21	BG	MIRROR SENSOR (LH VERTICAL)
22	V	MIRROR SENSOR (LH HORIZONTAL)
23	SB	POWER SUPPLY (SENSOR FOR 5V)
24	Y	GND (SENSOR GND)

Connector No.	D12
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS02FW
Connector Color	WHITE

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR DOOR LH+ OUT
2	W	FR DOOR LH- OUT

Connector No.	D20
Connector Name	DOOR MIRROR LH (SIDE CAMERA)
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	R	COMP OUT+
6	W	POWER
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	G	CAMERA CONTROL
17	SHIELD	COMP OUT-
18	B	GND
19	–	–
20	–	–
21	–	–
22	–	–
23	–	–
24	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	W	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	L	TO MAIN HARNESS
8	BR	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	BR	TO MAIN HARNESS
11	LG	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	W/B	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	LG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	L	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	BR	TO MAIN HARNESS
20	SB	TO MAIN HARNESS
21	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	G	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
22	Y	TO MAIN HARNESS
23	LG	TO MAIN HARNESS
24	BR	TO MAIN HARNESS
25	Y	TO MAIN HARNESS
26	LG	TO MAIN HARNESS
27	–	TO MAIN HARNESS
28	–	TO MAIN HARNESS
29	Y	TO MAIN HARNESS
30	LG	TO MAIN HARNESS
31	BR	TO MAIN HARNESS

32	–	TO MAIN HARNESS

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS
Connector Color	WHITE

H.S.

4	3		2	1
10	9	8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	L	TO MAIN HARNESS
5	BR	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	LG	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	W	TO MAIN HARNESS

Connector No.	D112
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS02FW
Connector Color	WHITE

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR DOOR RH+ OUT
2	W	FR DOOR RH- OUT

Connector No.	D113
Connector Name	DOOR MIRROR RH (SIDE CAMERA)
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	R	COMP OUT+
6	W	POWER
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	G	CAMERA CONTROL
17	SHIELD	COMP OUT-
18	B	GND
19	–	–
20	–	–
21	–	–
22	–	–
23	–	–
24	–	–

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	BR	TO BODY HARNESS
2	L	TO BODY HARNESS
3	B	TO BODY HARNESS
4	SB	TO BODY HARNESS
5	–	TO BODY HARNESS
6	–	TO BODY HARNESS
7	–	TO BODY HARNESS
8	V	TO BODY HARNESS
9	R/W	TO BODY HARNESS
10	P/G	TO BODY HARNESS
11	Y	TO BODY HARNESS
12	LG	TO BODY HARNESS

Connector No.	D207
Connector Name	REAR DOOR SPEAKER LH (WITH BOSE AUDIO SYSTEM)
Connector Type	NS02FBR-CS
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	LG	RR DR SP LH+
2	Y	RR DR SP LH-

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W/V	TO BODY HARNESS RH
2	–	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	V	TO BODY HARNESS RH
5	–	TO BODY HARNESS RH
6	Y	TO BODY HARNESS RH
7	LG	TO BODY HARNESS RH
8	SB	TO BODY HARNESS RH
9	R/W	TO BODY HARNESS RH
10	R/G	TO BODY HARNESS RH
11	G	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH

Connector No.	D307
Connector Name	REAR DOOR SPEAKER RH (WITH BOSE AUDIO SYSTEM)
Connector Type	NS02FBR-CS
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	W	RR DR SP RH+
2	G	RR DR SP RH-

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	BR	TO BODY HARNESS
2	BG	TO BODY HARNESS
3	V	TO BODY HARNESS
4	LG	TO BODY HARNESS
5	G	TO BODY HARNESS
6	SB	TO BODY HARNESS
7	L	TO BODY HARNESS
8	R	TO BODY HARNESS
9	G	TO BODY HARNESS
10	W	TO BODY HARNESS
11	P	TO BODY HARNESS
12	Y	TO BODY HARNESS
13	W	TO BODY HARNESS
14	B	TO BODY HARNESS
15	R	TO BODY HARNESS
16	SHIELD	TO BODY HARNESS
17	G	TO BODY HARNESS
18	–	TO BODY HARNESS
19	W	TO BODY HARNESS
20	W	TO BODY HARNESS
21	W	TO BODY HARNESS
22	LG	TO BODY HARNESS
23	Y	TO BODY HARNESS
24	LG	TO BODY HARNESS

Connector No.	D511
Connector Name	REAR VIEW CAMERA (WITH NAVI)
Connector Type	TH08MW-NH
Connector Color	WHITE

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	SHIELD	COMP-
2	–	–
3	–	–
4	G	CONT
5	R	COMP+
6	–	–
7	B	GND
8	W	ON

Connector No.	E5
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO FRONT END MODULE HARNESS
2	SB	TO FRONT END MODULE HARNESS
3	BR	TO FRONT END MODULE HARNESS
4	B	TO FRONT END MODULE HARNESS
5	B	TO FRONT END MODULE HARNESS
6	P	TO FRONT END MODULE HARNESS
7	W/G	TO FRONT END MODULE HARNESS
8	G	TO FRONT END MODULE HARNESS
9	L	TO FRONT END MODULE HARNESS
10	G	TO FRONT END MODULE HARNESS
11	R	TO FRONT END MODULE HARNESS
12	P	TO FRONT END MODULE HARNESS
13	SHIELD	TO FRONT END MODULE HARNESS
14	SHIELD	TO FRONT END MODULE HARNESS
15	P	TO FRONT END MODULE HARNESS
16	B	TO FRONT END MODULE HARNESS

Connector No.	E22
Connector Name	ACCESSORY RELAY-2
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

H.S.

3		
	5	
2		1

Terminal No.	Color of Wire	Signal Name
1	G	ACC RELAY OUT
2	B	GROUND
3	R	BATT
5	P	ACC

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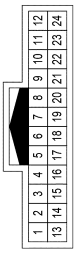
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	E26
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

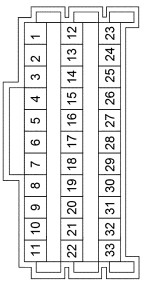


Terminal No.	Color of Wire	Signal Name
1	R	TO FRONT END MODULE HARNESS
2	W	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	SHIELD	TO FRONT END MODULE HARNESS
5	B	TO FRONT END MODULE HARNESS
6	R	TO FRONT END MODULE HARNESS
7	W	TO FRONT END MODULE HARNESS
8	SHIELD	TO FRONT END MODULE HARNESS
9	Y	TO FRONT END MODULE HARNESS
10	BG	TO FRONT END MODULE HARNESS
11	G	TO FRONT END MODULE HARNESS
12	W	TO FRONT END MODULE HARNESS
13	R	TO FRONT END MODULE HARNESS
14	B	TO FRONT END MODULE HARNESS
15	G	TO FRONT END MODULE HARNESS
16	SHIELD	TO FRONT END MODULE HARNESS
17	W	TO FRONT END MODULE HARNESS
18	P	TO FRONT END MODULE HARNESS
19	W	TO FRONT END MODULE HARNESS
20	R	TO FRONT END MODULE HARNESS
21	W	TO FRONT END MODULE HARNESS
22	BR	TO FRONT END MODULE HARNESS
23	V	TO FRONT END MODULE HARNESS

24	SB	TO FRONT END MODULE HARNESS

Connector No.	E44
Connector Name	JOINT CONNECTOR-E01
Connector Type	BJ30FW
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W	SENSOR POWER SUPPLY
2	W	SENSOR POWER SUPPLY
3	W	SENSOR POWER SUPPLY
4	R	BATTERY
5	R	BATTERY
6	R	BATTERY
7	–	–
8	LG	BATTERY
9	LG	BATTERY
10	LG	BATTERY
11	LG	BATTERY
12	P	BATTERY
13	P	BATTERY
14	P	BATTERY
15	GR	GND
16	B	GND
17	B	GND
18	–	–
19	Y	BATTERY
20	Y	BATTERY
21	Y	BATTERY
22	Y	BATTERY
23	BG	EVAP CONTROL SYSTEM PRESSURE SENSOR
24	O	EVAP CONTROL SYSTEM PRESSURE SENSOR
25	–	–
26	G	GND
27	G	GND
28	G	GND
29	–	–
30	V	BATTERY
31	LG	BATTERY
32	V	BATTERY
33	V	BATTERY

Connector No.	E52
Connector Name	PARKING BRAKE SWITCH
Connector Type	P01FB-A
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	PKB

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	W	TO MAIN HARNESS
3G	P	TO MAIN HARNESS
4G	R	TO MAIN HARNESS
5G	P	TO MAIN HARNESS
6G	W	TO MAIN HARNESS
7G	SHIELD	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	LG	TO MAIN HARNESS
10G	P	TO MAIN HARNESS
11G	G	TO MAIN HARNESS
12G	P	TO MAIN HARNESS
13G	W	TO MAIN HARNESS
14G	BG	TO MAIN HARNESS
15G	W	TO MAIN HARNESS
16G	R	TO MAIN HARNESS
17G	B	TO MAIN HARNESS
18G	SHIELD	TO MAIN HARNESS
19G	W	TO MAIN HARNESS
20G	G	TO MAIN HARNESS
21G	P	TO MAIN HARNESS
22G	B	TO MAIN HARNESS
23G	SHIELD	TO MAIN HARNESS
24G	R	TO MAIN HARNESS
25G	W	TO MAIN HARNESS
26G	SHIELD	TO MAIN HARNESS

Connector No.	E207
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	P	TO ENGINE ROOM HARNESS
2	P	TO ENGINE ROOM HARNESS
3	R	TO ENGINE ROOM HARNESS
4	B	TO ENGINE ROOM HARNESS
5	G	TO ENGINE ROOM HARNESS
6	–	TO ENGINE ROOM HARNESS
7	–	TO ENGINE ROOM HARNESS
8	G	TO ENGINE ROOM HARNESS
9	R	TO ENGINE ROOM HARNESS
10	G	TO ENGINE ROOM HARNESS
11	P	TO ENGINE ROOM HARNESS
12	R	TO ENGINE ROOM HARNESS
13	SHIELD	TO ENGINE ROOM HARNESS
14	SHIELD	TO ENGINE ROOM HARNESS
15	–	TO ENGINE ROOM HARNESS
16	–	TO ENGINE ROOM HARNESS

Connector No.	E209
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO ENGINE ROOM HARNESS
2	L	TO ENGINE ROOM HARNESS
3	B	TO ENGINE ROOM HARNESS
4	SHIELD	TO ENGINE ROOM HARNESS
5	B	TO ENGINE ROOM HARNESS
6	R	TO ENGINE ROOM HARNESS
7	W	TO ENGINE ROOM HARNESS
8	SHIELD	TO ENGINE ROOM HARNESS
9	Y	TO ENGINE ROOM HARNESS
10	L	TO ENGINE ROOM HARNESS
11	SB	TO ENGINE ROOM HARNESS
12	Y	TO ENGINE ROOM HARNESS
13	R	TO ENGINE ROOM HARNESS
14	B	TO ENGINE ROOM HARNESS
15	G	TO ENGINE ROOM HARNESS
16	SHIELD	TO ENGINE ROOM HARNESS
17	W	TO ENGINE ROOM HARNESS
18	L	TO ENGINE ROOM HARNESS
19	Y	TO ENGINE ROOM HARNESS
20	V	TO ENGINE ROOM HARNESS
21	G	TO ENGINE ROOM HARNESS
22	L	TO ENGINE ROOM HARNESS
23	G	TO ENGINE ROOM HARNESS
24	R	TO ENGINE ROOM HARNESS

27G	W	TO MAIN HARNESS
28G	R	TO MAIN HARNESS
29G	B	TO MAIN HARNESS
30G	G	TO MAIN HARNESS
31G	L	TO MAIN HARNESS
32G	LG	TO MAIN HARNESS
33G	LG	TO MAIN HARNESS
34G	W	TO MAIN HARNESS
35G	P	TO MAIN HARNESS
36G	L	TO MAIN HARNESS
37G	BG	TO MAIN HARNESS
38G	W	TO MAIN HARNESS
39G	W	TO MAIN HARNESS
40G	Y	TO MAIN HARNESS
41G	BG	TO MAIN HARNESS
42G	P	TO MAIN HARNESS
43G	R	TO MAIN HARNESS
44G	W	TO MAIN HARNESS
45G	Y	TO MAIN HARNESS
46G	SB	TO MAIN HARNESS
47G	V	TO MAIN HARNESS
48G	BR	TO MAIN HARNESS
49G	W	TO MAIN HARNESS
50G	G	TO MAIN HARNESS
51G	B/W	TO MAIN HARNESS
52G	BR	TO MAIN HARNESS
53G	L	TO MAIN HARNESS
54G	P	TO MAIN HARNESS
55G	BR	TO MAIN HARNESS
56G	R	TO MAIN HARNESS
57G	P	TO MAIN HARNESS
58G	BG	TO MAIN HARNESS
59G	W	TO MAIN HARNESS
60G	B	TO MAIN HARNESS
61G	SHIELD	TO MAIN HARNESS
62G	P	TO MAIN HARNESS
63G	L	TO MAIN HARNESS
64G	R	TO MAIN HARNESS
65G	G/R	TO MAIN HARNESS
66G	R	TO MAIN HARNESS
67G	BG	TO MAIN HARNESS
68G	LG/R	TO MAIN HARNESS
69G	W	TO MAIN HARNESS
70G	G	TO MAIN HARNESS
71G	GR	TO MAIN HARNESS
72G	–	TO MAIN HARNESS
73G	–	TO MAIN HARNESS
74G	–	TO MAIN HARNESS
75G	G	TO MAIN HARNESS
76G	Y	TO MAIN HARNESS
77G	BR	TO MAIN HARNESS
78G	–	TO MAIN HARNESS
79G	P	TO MAIN HARNESS

80G	G	TO MAIN HARNESS
81G	R	TO MAIN HARNESS
82G	–	TO MAIN HARNESS
83G	–	TO MAIN HARNESS
84G	–	TO MAIN HARNESS
85G	–	TO MAIN HARNESS
86G	–	TO MAIN HARNESS
87G	–	TO MAIN HARNESS
88G	–	TO MAIN HARNESS
89G	R	TO MAIN HARNESS
90G	L	TO MAIN HARNESS
91G	L	TO MAIN HARNESS
92G	–	TO MAIN HARNESS
93G	–	TO MAIN HARNESS
94G	Y	TO MAIN HARNESS
95G	W	TO MAIN HARNESS
96G	–	TO MAIN HARNESS
97G	–	TO MAIN HARNESS
98G	–	TO MAIN HARNESS
99G	–	TO MAIN HARNESS
100G	SHIELD	TO MAIN HARNESS

ABNIA9098GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	E211
Connector Name	WIRE TO WIRE
Connector Type	RS08MGY-PR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	R	TO FRONT FOG LAMP SUB HARNESS
2	B	TO FRONT FOG LAMP SUB HARNESS
3	R	TO FRONT FOG LAMP SUB HARNESS
4	W	TO FRONT FOG LAMP SUB HARNESS
5	W	TO FRONT FOG LAMP SUB HARNESS
6	–	TO FRONT FOG LAMP SUB HARNESS
7	B	TO FRONT FOG LAMP SUB HARNESS
8	B	TO FRONT FOG LAMP SUB HARNESS

7	B	TO FRONT FOG LAMP SUB HARNESS
8	B	TO FRONT FOG LAMP SUB HARNESS

Connector No.	E226
Connector Name	FRONT CAMERA
Connector Type	RH06FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	R	ON
2	B	GND
3	G	COMP+
4	SHIELD	COMP-
5	–	–
6	W	CONT

Connector No.	E301
Connector Name	WIRE TO WIRE
Connector Type	RS08FGY-PR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	TO FRONT END MODULE HARNESS
2	P	TO FRONT END MODULE HARNESS
3	LG	TO FRONT END MODULE HARNESS
4	W	TO FRONT END MODULE HARNESS
5	R	TO FRONT END MODULE HARNESS
6	R	TO FRONT END MODULE HARNESS
7	B	TO FRONT END MODULE HARNESS

8	B	TO FRONT END MODULE HARNESS

Connector No.	E302
Connector Name	WIRE TO WIRE
Connector Type	RS08FGY-PR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	TO FRONT END MODULE HARNESS
2	P	TO FRONT END MODULE HARNESS
3	W	TO FRONT END MODULE HARNESS
4	W	TO FRONT END MODULE HARNESS
5	R	TO FRONT END MODULE HARNESS
6	W	TO FRONT END MODULE HARNESS
7	B	TO FRONT END MODULE HARNESS
8	B	TO FRONT END MODULE HARNESS

Connector No.	E307
Connector Name	FRONT SONAR SENSOR LH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	FR SENSOR GND
2	G	FOL SENSOR SIGNAL
3	–	–

Connector No.	E308
Connector Name	FRONT SONAR SENSOR RH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	–
2	G	FOR SENSOR SIGNAL
3	R	FR SENSOR GND

Connector No.	E309
Connector Name	FRONT SONAR SENSOR LH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	GROUND
2	W	SIGNAL
3	–	–

Connector No.	E212
Connector Name	WIRE TO WIRE
Connector Type	RS08MGY-PR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	TO FRONT FOG LAMP SUB HARNESS
2	B	TO FRONT FOG LAMP SUB HARNESS
3	B	TO FRONT FOG LAMP SUB HARNESS
4	L	TO FRONT FOG LAMP SUB HARNESS
5	Y	TO FRONT FOG LAMP SUB HARNESS
6	G	TO FRONT FOG LAMP SUB HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	E310
Connector Name	FRONT SONAR SENSOR RH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	GROUND
2	W	SIGNAL
3	–	–

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	TO ROOM LAMP HARNESS
2	LG	TO ROOM LAMP HARNESS
3	R	TO ROOM LAMP HARNESS
4	–	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	LG	TO ROOM LAMP HARNESS
7	L	TO ROOM LAMP HARNESS
8	Y	TO ROOM LAMP HARNESS
9	W	TO ROOM LAMP HARNESS
10	LG	TO ROOM LAMP HARNESS
11	BR	TO ROOM LAMP HARNESS
12	R/G	TO ROOM LAMP HARNESS
13	W	TO ROOM LAMP HARNESS
14	B	TO ROOM LAMP HARNESS
15	SHIELD	TO ROOM LAMP HARNESS
16	R	TO ROOM LAMP HARNESS
17	W	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	G	TO ROOM LAMP HARNESS
20	BR	TO ROOM LAMP HARNESS
21	LG	TO ROOM LAMP HARNESS
22	Y	TO ROOM LAMP HARNESS
23	P	TO ROOM LAMP HARNESS
24	B	TO ROOM LAMP HARNESS

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	LG	IGNITION
3P	G	IGN ELEC RELAY OUT 2
4P	–	–
5P	P	IGNITION
6P	BG	REAR DEFOGGER RELAY OUT
7P	LG	IGNITION
8P	BG	IGNITION
9P	L	BATTERY
10P	BR	IGNITION
11P	–	–
12P	–	–
13P	W	BATTERY
14P	Y	BATTERY
15P	L	BATT
16P	W	BLOWER FAN RELAY OUT

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS RH

2	–	TO BODY HARNESS RH
3	–	TO BODY HARNESS RH
4	–	TO BODY HARNESS RH
5	–	TO BODY HARNESS RH
6	GR	TO BODY HARNESS RH
7	V	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	R	TO BODY HARNESS RH
10	SHIELD	TO BODY HARNESS RH
11	W	TO BODY HARNESS RH
12	B	TO BODY HARNESS RH
13	–	TO BODY HARNESS RH
14	–	TO BODY HARNESS RH
15	–	TO BODY HARNESS RH
16	–	TO BODY HARNESS RH
17	–	TO BODY HARNESS RH
18	–	TO BODY HARNESS RH
19	P	TO BODY HARNESS RH
20	G	TO BODY HARNESS RH
21	SHIELD	TO BODY HARNESS RH
22	B	TO BODY HARNESS RH
23	R	TO BODY HARNESS RH
24	W	TO BODY HARNESS RH

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Type	NS16FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	G	TO BODY HARNESS RH
4	L	TO BODY HARNESS RH
5	Y	TO BODY HARNESS RH
6	G	TO BODY HARNESS RH
7	W	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	W	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	R	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	W	TO BODY HARNESS RH

15	P	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
15	G	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
16	W	TO BODY HARNESS RH

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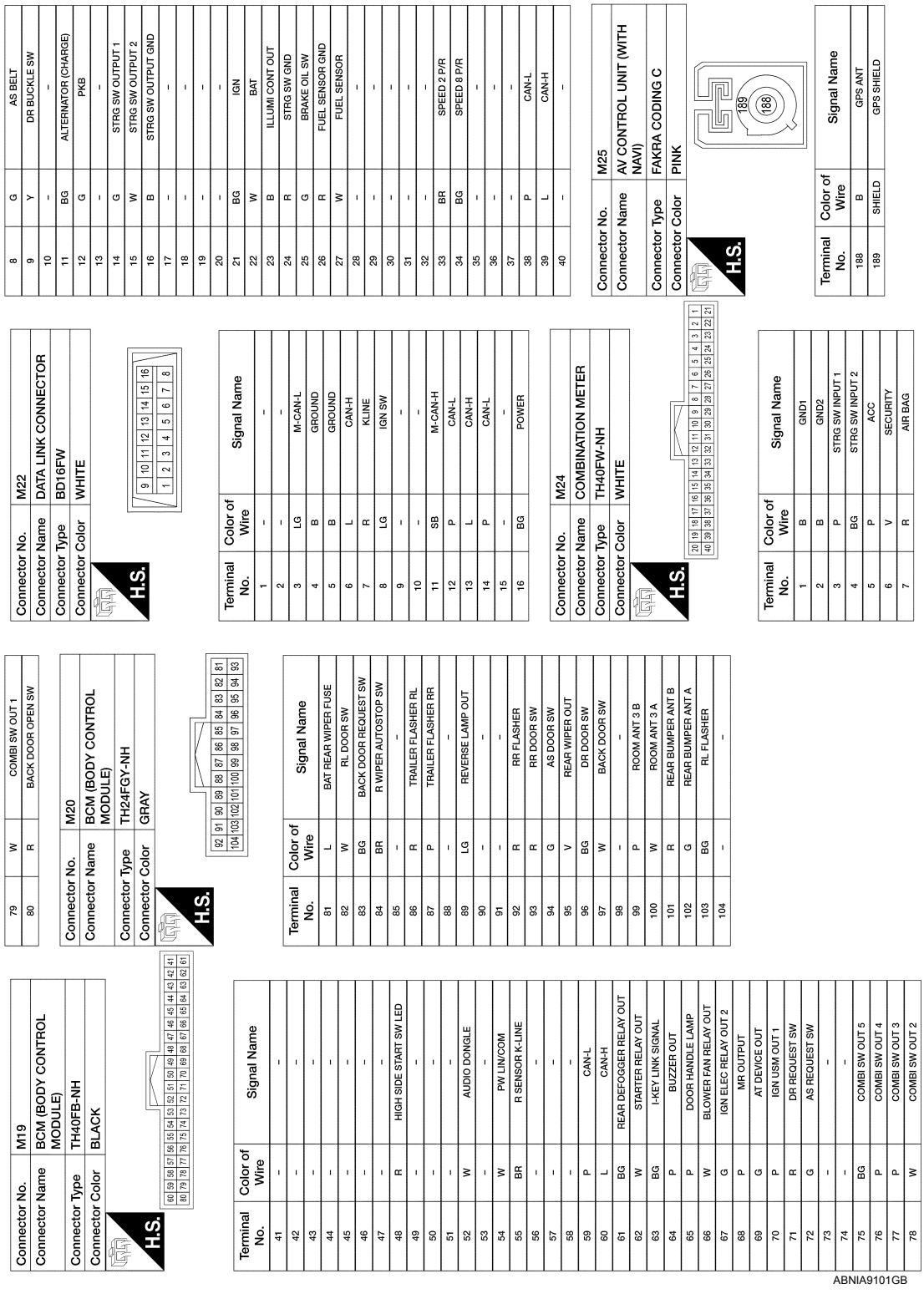
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM



ABNIA9101GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M30
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
24	P	AUDIO STRG SW REMOTE A
25	W	ASCD
31	BG	AUDIO STRG SW REMOTE B
32	G	ASCDG
33	R	AUDIO STRG SW GND

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
1G	P	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)

2G	W	TO ENGINE ROOM HARNESS
3G	P	TO ENGINE ROOM HARNESS
4G	G	TO ENGINE ROOM HARNESS
5G	P	TO ENGINE ROOM HARNESS
6G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6G	R	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7G	SHIELD	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	BG	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R	TO ENGINE ROOM HARNESS
12G	G	TO ENGINE ROOM HARNESS
13G	G	TO ENGINE ROOM HARNESS
14G	V	TO ENGINE ROOM HARNESS
15G	W	TO ENGINE ROOM HARNESS
16G	R	TO ENGINE ROOM HARNESS
17G	B	TO ENGINE ROOM HARNESS
18G	SHIELD	TO ENGINE ROOM HARNESS
19G	SB	TO ENGINE ROOM HARNESS
20G	LG	TO ENGINE ROOM HARNESS
21G	R	TO ENGINE ROOM HARNESS
22G	B	TO ENGINE ROOM HARNESS
23G	SHIELD	TO ENGINE ROOM HARNESS
24G	W	TO ENGINE ROOM HARNESS
25G	R	TO ENGINE ROOM HARNESS
26G	SHIELD	TO ENGINE ROOM HARNESS
27G	B	TO ENGINE ROOM HARNESS
28G	W	TO ENGINE ROOM HARNESS
29G	G	TO ENGINE ROOM HARNESS
30G	R	TO ENGINE ROOM HARNESS
31G	L	TO ENGINE ROOM HARNESS
32G	G	TO ENGINE ROOM HARNESS
33G	G	TO ENGINE ROOM HARNESS
34G	G	TO ENGINE ROOM HARNESS
35G	P	TO ENGINE ROOM HARNESS
36G	L	TO ENGINE ROOM HARNESS
37G	L	TO ENGINE ROOM HARNESS
38G	W	TO ENGINE ROOM HARNESS
39G	R	TO ENGINE ROOM HARNESS
40G	Y	TO ENGINE ROOM HARNESS
41G	L	TO ENGINE ROOM HARNESS
42G	P	TO ENGINE ROOM HARNESS
43G	W	TO ENGINE ROOM HARNESS
44G	G	TO ENGINE ROOM HARNESS
45G	R	TO ENGINE ROOM HARNESS
46G	Y	TO ENGINE ROOM HARNESS
47G	Y	TO ENGINE ROOM HARNESS
48G	LG	TO ENGINE ROOM HARNESS
49G	P	TO ENGINE ROOM HARNESS
50G	L	TO ENGINE ROOM HARNESS
51G	B/W	TO ENGINE ROOM HARNESS
52G	BR	TO ENGINE ROOM HARNESS
53G	L	TO ENGINE ROOM HARNESS
54G	BG	TO ENGINE ROOM HARNESS
55G	G	TO ENGINE ROOM HARNESS
56G	P	TO ENGINE ROOM HARNESS
57G	P	TO ENGINE ROOM HARNESS
58G	L	TO ENGINE ROOM HARNESS
59G	B	TO ENGINE ROOM HARNESS
60G	W	TO ENGINE ROOM HARNESS
61G	SHIELD	TO ENGINE ROOM HARNESS
62G	G	TO ENGINE ROOM HARNESS
63G	P	TO ENGINE ROOM HARNESS
64G	W	TO ENGINE ROOM HARNESS
65G	G/R	TO ENGINE ROOM HARNESS
66G	R	TO ENGINE ROOM HARNESS
67G	W	TO ENGINE ROOM HARNESS
68G	LG/R	TO ENGINE ROOM HARNESS
69G	P	TO ENGINE ROOM HARNESS
70G	BG	TO ENGINE ROOM HARNESS
71G	GR	TO ENGINE ROOM HARNESS
72G	–	TO ENGINE ROOM HARNESS
73G	–	TO ENGINE ROOM HARNESS
74G	–	TO ENGINE ROOM HARNESS
75G	G	TO ENGINE ROOM HARNESS
76G	Y	TO ENGINE ROOM HARNESS
77G	BR	TO ENGINE ROOM HARNESS
78G	–	TO ENGINE ROOM HARNESS
79G	R	TO ENGINE ROOM HARNESS
80G	W	TO ENGINE ROOM HARNESS
81G	G	TO ENGINE ROOM HARNESS
82G	P	TO ENGINE ROOM HARNESS
83G	P	TO ENGINE ROOM HARNESS
84G	P	TO ENGINE ROOM HARNESS
85G	P	TO ENGINE ROOM HARNESS
86G	P	TO ENGINE ROOM HARNESS
87G	P	TO ENGINE ROOM HARNESS
88G	P	TO ENGINE ROOM HARNESS
89G	R	TO ENGINE ROOM HARNESS
90G	P	TO ENGINE ROOM HARNESS
91G	L	TO ENGINE ROOM HARNESS
92G	P	TO ENGINE ROOM HARNESS
93G	P	TO ENGINE ROOM HARNESS
94G	O	TO ENGINE ROOM HARNESS
95G	B	TO ENGINE ROOM HARNESS
96G	P	TO ENGINE ROOM HARNESS
97G	P	TO ENGINE ROOM HARNESS
98G	P	TO ENGINE ROOM HARNESS
99G	P	TO ENGINE ROOM HARNESS
100G	SHIELD	TO ENGINE ROOM HARNESS

ABNIA9102GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	V	TO BODY HARNESS RH
2	G	TO BODY HARNESS RH
3	Y	TO BODY HARNESS RH
4	R	TO BODY HARNESS RH
5	BG	TO BODY HARNESS RH
6	LG	TO BODY HARNESS RH
7	SB	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	B	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	SHIELD	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH
13	B	TO BODY HARNESS RH
14	SHIELD	TO BODY HARNESS RH
15	B	TO BODY HARNESS RH
16	W	TO BODY HARNESS RH
17	SHIELD	TO BODY HARNESS RH
18	SB	TO BODY HARNESS RH
19	LG	TO BODY HARNESS RH
20	SB	TO BODY HARNESS RH
21	B	TO BODY HARNESS RH
22	W	TO BODY HARNESS RH
23	SHIELD	TO BODY HARNESS RH
24	W	TO BODY HARNESS RH
25	B	TO BODY HARNESS RH
26	SHIELD	TO BODY HARNESS RH
27	B	TO BODY HARNESS RH
28	W	TO BODY HARNESS RH
29	SHIELD	TO BODY HARNESS RH
30	B	TO BODY HARNESS RH
31	W	TO BODY HARNESS RH
32	L	TO BODY HARNESS RH
33	Y	TO BODY HARNESS RH
34	-	TO BODY HARNESS RH
35	-	TO BODY HARNESS RH
36	-	TO BODY HARNESS RH
37	BR	TO BODY HARNESS RH
38	-	TO BODY HARNESS RH
39	-	TO BODY HARNESS RH
40	-	TO BODY HARNESS RH

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	GR	TO BODY HARNESS
2A	BR	TO BODY HARNESS
3A	Y	TO BODY HARNESS
4A	V	TO BODY HARNESS
5A	L/B	TO BODY HARNESS
6A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	G	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	Y	TO BODY HARNESS
8A	W	TO BODY HARNESS
9A	L	TO BODY HARNESS
10A	R	TO BODY HARNESS
11A	R	TO BODY HARNESS
12A	BG	TO BODY HARNESS
13A	O	TO BODY HARNESS
14A	LG	TO BODY HARNESS
15A	R	TO BODY HARNESS
16A	G	TO BODY HARNESS
17A	B	TO BODY HARNESS
18A	B	TO BODY HARNESS
19A	SHIELD	TO BODY HARNESS
20A	B	TO BODY HARNESS
21A	SHIELD	TO BODY HARNESS
22A	-	TO BODY HARNESS
23A	W	TO BODY HARNESS
24A	B	TO BODY HARNESS
25A	SHIELD	TO BODY HARNESS
26A	B	TO BODY HARNESS
27A	B	TO BODY HARNESS
28A	SHIELD	TO BODY HARNESS
29A	R	TO BODY HARNESS
30A	B	TO BODY HARNESS
31A	R	TO BODY HARNESS
32A	Y/R	TO BODY HARNESS
33A	W	TO BODY HARNESS
34A	B	TO BODY HARNESS
35A	SHIELD	TO BODY HARNESS
36A	L/Y	TO BODY HARNESS
37A	LG	TO BODY HARNESS
38A	V	TO BODY HARNESS
39A	SB	TO BODY HARNESS
40A	BR	TO BODY HARNESS
41A	Y	TO BODY HARNESS
42A	G	TO BODY HARNESS
43A	-	TO BODY HARNESS
44A	W	TO BODY HARNESS
45A	R	TO BODY HARNESS
46A	BG	TO BODY HARNESS
47A	LG	TO BODY HARNESS
48A	R	TO BODY HARNESS
49A	P	TO BODY HARNESS
50A	W	TO BODY HARNESS
51A	L	TO BODY HARNESS
52A	P	TO BODY HARNESS
53A	G	TO BODY HARNESS
54A	W	TO BODY HARNESS
55A	BG	TO BODY HARNESS
56A	BR	TO BODY HARNESS
57A	P	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
57A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
58A	G	TO BODY HARNESS
59A	SB	TO BODY HARNESS
60A	L	TO BODY HARNESS
61A	G	TO BODY HARNESS
62A	BR	TO BODY HARNESS
63A	BR	TO BODY HARNESS
64A	Y	TO BODY HARNESS
65A	W	TO BODY HARNESS
66A	BG	TO BODY HARNESS
67A	Y	TO BODY HARNESS
69A	LG	TO BODY HARNESS
69A	R	TO BODY HARNESS
70A	P	TO BODY HARNESS
71A	BR	TO BODY HARNESS
72A	SB	TO BODY HARNESS
73A	BG	TO BODY HARNESS
74A	BR	TO BODY HARNESS
75A	LG	TO BODY HARNESS
76A	W	TO BODY HARNESS
77A	L	TO BODY HARNESS
78A	V	TO BODY HARNESS
79A	LG	TO BODY HARNESS
80A	Y	TO BODY HARNESS
81A	L	TO BODY HARNESS
82A	BG	TO BODY HARNESS
83A	Y	TO BODY HARNESS
84A	LG	TO BODY HARNESS
85A	SHIELD	TO BODY HARNESS
86A	Y	TO BODY HARNESS
87A	LG	TO BODY HARNESS
88A	BR	TO BODY HARNESS
89A	L	TO BODY HARNESS
90A	P	TO BODY HARNESS
91A	L	TO BODY HARNESS
92A	L	TO BODY HARNESS
93A	B	TO BODY HARNESS
94A	W	TO BODY HARNESS
95A	W	TO BODY HARNESS
96A	-	TO BODY HARNESS
97A	SB	TO BODY HARNESS
98A	Y	TO BODY HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
98A	L	TO BODY HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
99A	-	TO BODY HARNESS
100A	-	TO BODY HARNESS

ABNIA9103GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M47
Connector Name	TCU
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	B+
2	B	GND
3	P	ACC
4	LG	IGN
5	G	ACC OUT
6	G	AV ACC
7	B	GND
8	–	–
9	L	V CAN-H
10	P	V CAN-L
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	W	MIC VCC
19	B	MIC SIG
20	SHIELD	MIC GND
21	W	MIC VCC DETECTION
22	B	DCM MIC SIG
23	SHIELD	DCM MIC GND
24	–	–
25	–	–
26	–	–
27	–	–
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	–	–
34	R	ECALL SW
35	W	LED A
36	–	–
37	–	–
38	–	–
39	–	–
40	–	–

Connector No.	M55
Connector Name	AV CONTROL UNIT
Connector Type	GT17HN-4DP-2H(A)
Connector Color	BLUE

H.S.

138	137
140	139
141	

Terminal No.	Color of Wire	Signal Name
137	R	VBUS
138	B	USB GND
139	G	USB D+
140	W	USB D-
141	SHIELD	SHIELD

Connector No.	M56
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO CONSOLE SUB HARNESS
2	W	TO CONSOLE SUB HARNESS
3	SHIELD	TO CONSOLE SUB HARNESS
4	P	TO CONSOLE SUB HARNESS
5	Y	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	SHIELD	TO CONSOLE SUB HARNESS
8	P	TO CONSOLE SUB HARNESS
9	Y	TO CONSOLE SUB HARNESS
10	–	TO CONSOLE SUB HARNESS
11	–	TO CONSOLE SUB HARNESS
12	–	TO CONSOLE SUB HARNESS
13	R	TO CONSOLE SUB HARNESS
14	W	TO CONSOLE SUB HARNESS
15	B	TO CONSOLE SUB HARNESS
16	SHIELD	TO CONSOLE SUB HARNESS

Connector No.	M62
Connector Name	INSTRUMENT PANEL TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR INST TWDR LH+
2	W	FR INST TWDR LH-

Connector No.	M63
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO CONSOLE SUB HARNESS
2	G	TO CONSOLE SUB HARNESS
3	R	TO CONSOLE SUB HARNESS
4	SHIELD	TO CONSOLE SUB HARNESS
5	W	TO CONSOLE SUB HARNESS
6	B	TO CONSOLE SUB HARNESS
7	V	TO CONSOLE SUB HARNESS
8	G	TO CONSOLE SUB HARNESS
9	R	TO CONSOLE SUB HARNESS
10	SHIELD	TO CONSOLE SUB HARNESS
11	W	TO CONSOLE SUB HARNESS
12	B	TO CONSOLE SUB HARNESS
13	L	TO CONSOLE SUB HARNESS
14	G	TO CONSOLE SUB HARNESS
15	R	TO CONSOLE SUB HARNESS
16	SHIELD	TO CONSOLE SUB HARNESS
17	W	TO CONSOLE SUB HARNESS
18	B	TO CONSOLE SUB HARNESS
19	L	TO CONSOLE SUB HARNESS
20	G	TO CONSOLE SUB HARNESS
21	R	TO CONSOLE SUB HARNESS
22	SHIELD	TO CONSOLE SUB HARNESS
23	W	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS

Connector No.	M64
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO CONSOLE SUB HARNESS
2	B	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	LG	TO CONSOLE SUB HARNESS
5	SHIELD	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	BG	TO CONSOLE SUB HARNESS
9	B	TO CONSOLE SUB HARNESS
10	–	TO CONSOLE SUB HARNESS
11	B/W	TO CONSOLE SUB HARNESS
12	BR	TO CONSOLE SUB HARNESS
13	Y	TO CONSOLE SUB HARNESS
14	SB	TO CONSOLE SUB HARNESS
15	L	TO CONSOLE SUB HARNESS
16	LG	TO CONSOLE SUB HARNESS

ABNIA9104GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M65
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SUB HARNESS
2	G	TO CONSOLE SUB HARNESS
3	BR	TO CONSOLE SUB HARNESS
4	BG	TO CONSOLE SUB HARNESS
5	W	TO CONSOLE SUB HARNESS
6	P	TO CONSOLE SUB HARNESS
7	W	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	LG	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	R	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
8	L	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
9	V	TO CONSOLE SUB HARNESS
10	BG	TO CONSOLE SUB HARNESS
11	P	TO CONSOLE SUB HARNESS
12	G	TO CONSOLE SUB HARNESS
13	SHIELD	TO CONSOLE SUB HARNESS
14	B	TO CONSOLE SUB HARNESS
15	R	TO CONSOLE SUB HARNESS
16	W	TO CONSOLE SUB HARNESS
17	SB	TO CONSOLE SUB HARNESS
18	P	TO CONSOLE SUB HARNESS
19	G	TO CONSOLE SUB HARNESS
20	BG	TO CONSOLE SUB HARNESS
21	R	TO CONSOLE SUB HARNESS
22	W	TO CONSOLE SUB HARNESS
23	R	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS
25	G	TO CONSOLE SUB HARNESS
26	W	TO CONSOLE SUB HARNESS
27	LG	TO CONSOLE SUB HARNESS
28	B	TO CONSOLE SUB HARNESS
29	BR	TO CONSOLE SUB HARNESS
30	SHIELD	TO CONSOLE SUB HARNESS
31	B	TO CONSOLE SUB HARNESS

Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	L	TO BODY HARNESS
2	G	TO BODY HARNESS
3	Y	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
3	R	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
4	P	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
4	SHIELD	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
5	LG	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	W	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	BG	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	SB	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	G	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
9	R	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
10	SHIELD	TO BODY HARNESS
11	B	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
11	W	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
12	W	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
12	B	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
13	Y	TO BODY HARNESS
14	SB	TO BODY HARNESS
15	LG	TO BODY HARNESS
16	LG	TO BODY HARNESS
17	SB	TO BODY HARNESS
18	G	TO BODY HARNESS
19	P	TO BODY HARNESS
20	W	TO BODY HARNESS
21	R	TO BODY HARNESS
22	B	TO BODY HARNESS
23	SHIELD	TO BODY HARNESS
24	-	TO BODY HARNESS

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

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

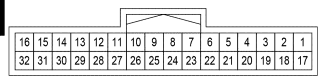
Terminal No.	Color of Wire	Signal Name
1R	R	TAIL LH
2R	LG	IGNITION
3R	G	BATTERY
4R	-	-
5R	Y	BATTERY
6R	Y	IGNITION
7R	-	-
8R	-	-
9R	G	BRAKE
10R	W	BATTERY
11R	-	-
12R	-	-
13R	GR	GROUND
14R	-	-
15R	-	-
16R	BG	IGNITION

ABNIA9105GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

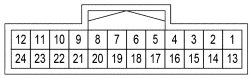
H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO BODY HARNESS - (WITHOUT NAVI)
1	R	TO BODY HARNESS - (WITH NAVI)
2	B	TO BODY HARNESS - (WITHOUT NAVI)
2	W	TO BODY HARNESS - (WITH NAVI)
3	R	TO BODY HARNESS - (WITHOUT NAVI)
3	B	TO BODY HARNESS - (WITH NAVI)
4	SHIELD	TO BODY HARNESS
5	B	TO BODY HARNESS
6	W	TO BODY HARNESS
7	SHIELD	TO BODY HARNESS
8	B	TO BODY HARNESS
9	SB	TO BODY HARNESS
10	BG	TO BODY HARNESS
11	R	TO BODY HARNESS
12	W	TO BODY HARNESS
13	–	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	L	TO BODY HARNESS
17	P	TO BODY HARNESS - (WITHOUT NAVI)
17	Y	TO BODY HARNESS - (WITH NAVI)
18	Y	TO BODY HARNESS - (WITHOUT NAVI)
18	P	TO BODY HARNESS - (WITH NAVI)
19	W	TO BODY HARNESS - (WITHOUT NAVI)
19	B	TO BODY HARNESS - (WITH NAVI)
20	B	TO BODY HARNESS - (WITHOUT NAVI)
20	W	TO BODY HARNESS - (WITH NAVI)
21	R	TO BODY HARNESS - (WITHOUT NAVI)
21	SHIELD	TO BODY HARNESS - (WITH NAVI)
22	G	TO BODY HARNESS - (WITHOUT NAVI)
22	W	TO BODY HARNESS - (WITH NAVI)
23	SHIELD	TO BODY HARNESS - (WITHOUT NAVI)
23	R	TO BODY HARNESS - (WITH NAVI)
24	SHIELD	TO BODY HARNESS
25	B	TO BODY HARNESS
26	G	TO BODY HARNESS
27	R	TO BODY HARNESS - (WITHOUT NAVI)
27	B	TO BODY HARNESS - (WITH NAVI)
28	B	TO BODY HARNESS - (WITHOUT NAVI)
28	R	TO BODY HARNESS - (WITH NAVI)
29	G	TO BODY HARNESS - (WITH NAVI)
29	W	TO BODY HARNESS - (WITHOUT NAVI)
30	SHIELD	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

Connector No.	M70
Connector Name	SONAR CONTROL UNIT
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	FIR SENSOR SIGNAL
2	B	FIL SENSOR SIGNAL
3	R	FOL SENSOR SIGNAL
4	R	FOR SENSOR SIGNAL
5	B	V CAN-H
6	W	V CAN-L
7	–	–
8	–	–
9	B	RIR SENSOR SIGNAL
10	B	ROR SENSOR SIGNAL
11	–	–
12	LG	IGN
13	B	FR SENSOR GND
14	B	RR SENSOR GND
15	GR	GND
16	LG	DISABLE SW
17	GR	LED OUTPUT
18	–	–
19	BR	SPEAKER PWR
20	LG	SPEAKER RR SIGNAL
21	B	RIL SENSOR SIGNAL
22	W	ROL SENSOR SIGNAL
23	–	–
24	–	–

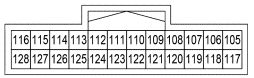
Connector No.	M73
Connector Name	INSTRUMENT PANEL TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	FR INST TWDR RH+
2	W	FR INST TWDR RH-

Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
105	LG	FR FLASHER
106	–	–
107	W	LOW SIDE START SW LED
108	G	SHIFT LOCK SOLENOID OUT
109	R	REVERSE SIGNAL
110	–	–
111	P	ACC LED
112	–	–
113	L	ACC RELAY OUT
114	W	AS DOOR ANT A
115	BG	AS DOOR ANT B
116	W	ROOM ANT 2 A
117	SB	FL FLASHER
118	–	–
119	R	RF NIMOCO
120	–	–
121	G	DR DOOR ANT B
122	P	DR DOOR ANT A
123	–	–
124	–	–
125	–	–
126	P	IMMO START BUTTON ANT B
127	BG	IMMO START BUTTON ANT A
128	R	ROOM ANT 2 B

ABNIA9106GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	SHIELD	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	P	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS RH
10	G	TO BODY HARNESS RH
11	L	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	P	TO BODY HARNESS RH
15	O	TO BODY HARNESS RH
16	SB	TO BODY HARNESS RH
17	L	TO BODY HARNESS RH
18	P	TO BODY HARNESS RH
19	R	TO BODY HARNESS RH
20	–	TO BODY HARNESS RH
21	G	TO BODY HARNESS RH
22	R	TO BODY HARNESS RH
23	G	TO BODY HARNESS RH
24	R	TO BODY HARNESS RH - (WITH CLIMATE CONTROLLED SEAT)
24	V	TO BODY HARNESS RH - (WITHOUT CLIMATE CONTROLLED SEAT)
25	W	TO BODY HARNESS RH
26	W	TO BODY HARNESS RH
27	BG	TO BODY HARNESS RH
28	V	TO BODY HARNESS RH
29	SB	TO BODY HARNESS RH
30	L	TO BODY HARNESS RH
31	W	TO BODY HARNESS RH
32	–	TO BODY HARNESS RH

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT DOOR RH HARNESS
2	SHIELD	TO FRONT DOOR RH HARNESS
3	G	TO FRONT DOOR RH HARNESS
4	R	TO FRONT DOOR RH HARNESS
5	B	TO FRONT DOOR RH HARNESS
6	G	TO FRONT DOOR RH HARNESS
7	Y	TO FRONT DOOR RH HARNESS
8	W	TO FRONT DOOR RH HARNESS
9	BG	TO FRONT DOOR RH HARNESS
10	P	TO FRONT DOOR RH HARNESS
11	LG	TO FRONT DOOR RH HARNESS
12	B	TO FRONT DOOR RH HARNESS
13	W	TO FRONT DOOR RH HARNESS
14	Y/R	TO FRONT DOOR RH HARNESS
15	GR	TO FRONT DOOR RH HARNESS
16	B/W	TO FRONT DOOR RH HARNESS
17	BG	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	G	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	W	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	BG	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	G	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
19	P	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
20	G	TO FRONT DOOR RH HARNESS
21	W	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	R	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
22	SB	TO FRONT DOOR RH HARNESS
23	P	TO FRONT DOOR RH HARNESS
24	G	TO FRONT DOOR RH HARNESS
25	BG	TO FRONT DOOR RH HARNESS
26	W	TO FRONT DOOR RH HARNESS
27	–	TO FRONT DOOR RH HARNESS
28	–	TO FRONT DOOR RH HARNESS
29	W	TO FRONT DOOR RH HARNESS
30	SB	TO FRONT DOOR RH HARNESS
31	W	TO FRONT DOOR RH HARNESS
32	–	TO FRONT DOOR RH HARNESS

Connector No.	M92
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	–	–
6	SHIELD	FRONT COMP SHIELD
7	SHIELD	SHIELD
8	B	R CAMERA COMP
9	B	FRONT DISP IT
10	W	IT FRONT DISP
11	Y	BATT
12	B	GND
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	B	FRONT COMP +
19	W	FRONT COMP -
20	R	FRONT COMP SYNC
21	–	–
22	SHIELD	SHIELD
23	P	ACC
24	–	–

Connector No.	M95
Connector Name	WIRE TO WIRE
Connector Type	GT13SH-2/1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS

ABNIA9107GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M96
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	Y	+B
3	LG	IGN
4	P	ACC
5	–	–
6	–	–
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	–	–
19	B	MCAN-1H
20	W	MCAN-1L
21	–	–
22	–	–
23	SHIELD	MCAN GND
24	–	–
25	LG	REV
26	–	–
27	B	CAN-H
28	W	CAN-L
29	SHIELD	CAN GND
30	W	MIRROR SIGNAL 2
31	–	–
32	G	MIRROR SIGNAL 1
33	–	–
34	–	–
35	–	–
36	–	–
37	–	–
38	–	–
39	–	–
40	–	–

Connector No.	M97
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72
41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71

Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	–	–
47	B	VIDEO OUTPUT +
48	SHIELD	VIDEO OUTPUT -
49	W	RV SERIAL SIGNAL
50	B	RV POWER
51	–	–
52	R	RV POWER GND
53	G	RV VIDEO +
54	SHIELD	RV VIDEO -
55	B	SV2 SERIAL SIGNAL
56	W	SV2 POWER
57	–	–
58	G	SV2 POWER GND
59	R	SV2 VIDEO +
60	SHIELD	SV2 POWER GND
61	W	SV1 SERIAL SIGNAL
62	B	SV1 POWER
63	–	–
64	R	SV1 POWER GND
65	G	SV1 VIDEO +
66	SHIELD	SV1 VIDEO -
67	B	FV SERIAL SIGNAL
68	W	FV POWER
69	–	–
70	G	FV POWER GND
71	R	FV VIDEO +
72	SHIELD	FV VIDEO -

Connector No.	M98
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	GR	GND
2	–	–
3	P	ACC
4	R	ILL
5	B	ILL CONT
6	SB	MCAN-H
7	–	–
8	LG	MCAN-L
9	V	EJECT GND
10	–	–
11	–	–
12	–	–
13	–	–
14	Y	CD (DVD) EJECT
15	R	AIRBAG CUTOFF
16	LG	HAZARD

Connector No.	M109
Connector Name	FRONT TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	P	FR DR SP LH+ (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
1	G	FR DR SP LH+ (WITH BOSE AUDIO SYSTEM WITH SURROUND SOUND SYSTEM)
2	W	FR DR SP LH- (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)

2	R	FR DR SP LH- (WITH BOSE AUDIO SYSTEM WITH SURROUND SOUND SYSTEM)

Connector No.	M110
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FRONT CENTER SP+
2	W	FRONT CENTER SP-

Connector No.	M111
Connector Name	FRONT TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	W	FR DR SP RH+ (WITH SURROUND SOUND SYSTEM)
1	G	FR DR SP RH+ (WITHOUT SURROUND SOUND SYSTEM)
2	B	FR DR SP RH- (WITH SURROUND SOUND SYSTEM)
2	W	FR DR SP RH- (WITHOUT SURROUND SOUND SYSTEM)

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M115
Connector Name	WIRE TO WIRE
Connector Type	GT17VS-6DS-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO CONSOLE SUB HARNESS
2	R	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	W	TO CONSOLE SUB HARNESS
5	–	TO CONSOLE SUB HARNESS
6	G	TO CONSOLE SUB HARNESS
7	–	TO CONSOLE SUB HARNESS

Connector No.	M120
Connector Name	JOINT CONNECTOR-M21
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	REVERSE LAMP OUT
2	LG	REVERSE LAMP OUT
3	LG	REVERSE LAMP OUT
4	–	–

Connector No.	M122
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI WITHOUT SURROUND SOUND SYSTEM)
Connector Type	NH18FW-CS2
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	AMP ON
2	B	FR LH PRE +
3	W	FR LH PRE -
4	B	RR LH PRE +
5	W	RR LH PRE -
6	G	STRG SW A
7	G	ACC (WITH TELEMATICS SYSTEM)
7	P	ACC (WITHOUT TELEMATICS SYSTEM)
8	–	–
9	–	–
10	BR	SHIELD
11	W	FR RH PRE +
12	B	FR RH PRE -
13	B	RR RH PRE +
14	W	RR RH PRE -
15	B	STRG SW GND
16	W	STRG SW B
17	–	–
18	–	–
19	Y	(+) B
20	GR	GND

Connector No.	M123
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI WITHOUT SURROUND SOUND SYSTEM)
Connector Type	TH28FW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
21	–	–
22	–	–
23	–	–
24	W	AUX AUDIO LH
25	–	–
26	W	HP 1 LH+
27	B	HP 1 RH+
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	–	–
34	–	–
35	–	–
36	–	–
37	SHIELD	AUX SHIELD
38	R	AUX AUDIO RH
39	B	AUX AUDIO
40	R	HP 1 LH-
41	G	HP 1 RH-
42	SHIELD	HP 1 SHIELD
43	–	–
44	–	–
45	–	–
46	–	–
47	–	–
48	–	–

Connector No.	M124
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI WITHOUT SURROUND SOUND SYSTEM)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
49	–	–
50	–	–
51	–	–
52	–	–
53	G	PKB SIG
54	–	–
55	W	NAVI COMP 1-
56	B	NAVI COMP 1+
57	BG	I-KEY MEMORY
58	G	AV-ACC (DCM)
59	SHIELD	PKB SIGMIC GND
60	W	MIC VCC
61	W	IT DISP
62	P	CAN-L
63	LG	M CAN-L
64	LG	M CAN-L TRM
65	–	–
66	–	–
67	P	MR OUTPUT
68	LG	IGN
69	R	REVERSE SIG
70	BG	SPEED
71	SHIELD	NAVI COMP 1 SHIELD
72	R	NAVI COMP 1 SYNC
73	–	–
74	–	–
75	B	MIC SIG
76	SHIELD	DISP SHIELD
77	B	DISP IT
78	L	CAN-H
79	SB	M CAN-H
80	SB	M CAN-H TRM

ABNIA9109GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M125
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI WITHOUT SURROUND SOUND SYSTEM)
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

81	83	85	87	89	91	93	95	97	99	101	103	105	107	109	111	113	115	117	119
82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120

Terminal No.	Color of Wire	Signal Name
81	–	–
82	–	–
83	–	–
84	–	–
85	–	–
86	–	–
87	–	–
88	–	–
89	–	–
90	–	–
91	W	AUX VIDEO+
92	B	AUX VIDEO-
93	–	–
94	SHIELD	VIDEO SHIELD
95	–	–
96	–	–
97	Y	DVD EJECT
98	V	EJECT GND
99	–	–
100	–	–
101	–	–
102	–	–
103	–	–
104	–	–
105	W	NAVI COMP 2-
106	SHIELD	NAVI COMP 2 SHIELD
107	B	NAVI COMP 2+
108	–	–
109	–	–
110	–	–
111	–	–
112	–	–
113	–	–
114	–	–
115	–	–
116	–	–
117	–	–
118	–	–
119	–	–
120	–	–

Connector No.	M133
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA CODING C
Connector Color	PINK

H.S.

170 169

Terminal No.	Color of Wire	Signal Name
169	B	SAT ANT
170	SHIELD	SAT SHIELD

Connector No.	M134
Connector Name	TCU
Connector Type	GT17HN-16DP-2H
Connector Color	GRAY

H.S.

48	47	46	45	44	43	42	41
56	55	54	53	52	51	50	49

57

Terminal No.	Color of Wire	Signal Name
41	W	U-VOICE
42	L	VOICE GND
43	–	–
44	–	–
45	–	–
46	B	MANUFACTURE SPECIFIC
47	B	USB VBUS
48	B	USB D-
49	B	D-VOICE
50	–	–
51	–	–
52	–	–
53	–	–
54	–	–
55	SHIELD	USB GND
56	L/W	D+
57	SHIELD	CONN CHASSIS GND

Connector No.	M135
Connector Name	TCU
Connector Type	GT16C-1S-HU
Connector Color	GRAY

H.S.

59 58

Terminal No.	Color of Wire	Signal Name
58	B	TEL ANT
59	SHIELD	TEL SHIELD

Connector No.	M136
Connector Name	AV CONTROL UNIT (WITH TELEMATICS SYSTEM)
Connector Type	GT17HN-16DP-2H
Connector Color	GRAY

H.S.

152	151	150	149	148	147	146	145
160	159	158	157	156	155	154	153

161

Terminal No.	Color of Wire	Signal Name
145	B	USB D-
146	B	USB VBUS
147	B	MANUFACTURE SPECIFIC
148	–	–
149	–	–
150	–	–
151	L	VOICE GND
152	W	U-VOICE
153	L/W	D+
154	SHIELD	USB GND
155	–	–
156	–	–
157	–	–
158	–	–
159	–	–
160	B	D-VOICE
161	SHIELD	CONN CHASSIS GND

Connector No.	M138
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU (B)
Connector Color	GREEN

H.S.

1 2

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	M140
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT17H-4DP-2H
Connector Color	BROWN

H.S.

163	162
165	164
166	

Terminal No.	Color of Wire	Signal Name
162	–	–
163	–	–
164	W	GVIF-
165	R	GVIF+
166	SHIELD	SHIELD

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

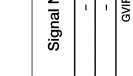
Connector No.	M141
Connector Name	DISPLAY UNIT
Connector Type	GT17H-4DP-2H
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
25	–	–
26	–	–
27	W	GVIF-
28	R	GVIF+
29	SHIELD	SHIELD

Connector No.	M143
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU
Connector Color	GRAY

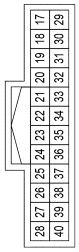
H.S.



Terminal No.	Color of Wire	Signal Name
171	B	ANT +B
172	B	ANT MAIN
173	SHIELD	SHIELD
174	B	ANT SUB
175	SHIELD	SHIELD

Connector No.	M148
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH24FW-NH
Connector Color	WHITE

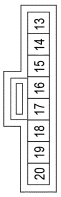
H.S.



Terminal No.	Color of Wire	Signal Name
17	–	–
18	–	–
19	G/W	AIRBAG CUTOFF
20	BR	ILL
21	W/L	ENCD-B 2
22	G	ENCD-PUSH 1
23	L	ENCD-B 1
24	Y	KEY-SCAN IN 2
25	R	KEY-SCAN IN 0
26	W/V	KEY-SCAN OUT 1
27	W/B	KEY-SCAN OUT 3
28	P	CD (DVD) EJECT
29	–	–
30	–	–
31	V	ILL CONT
32	G	ENCD-A 2
33	L/R	ENCD-PUSH 2
34	GR	ENCD-A 1
35	W/R	KEY-SCAN IN 3
36	O	KEY-SCAN IN 1
37	G	KEY-SCAN OUT 0
38	L	KEY-SCAN OUT 2
39	SB	KEY-SCAN OUT 4
40	B	GND

Connector No.	M149
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY
Connector Color	GRAY

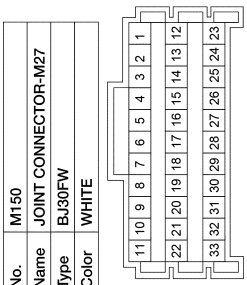
H.S.



Terminal No.	Color of Wire	Signal Name
13	R	ASCD
14	B	AUDIO STRG SW REMOTE A
15	GR	AUDIO STRG SW REMOTE B
16	L	ASCDG
17	BR	AUDIO STRG SW GND
18	G	HORN SWITCH
19	Y	ILL CONT
20	W	ILL

Connector No.	M150
Connector Name	JOINT CONNECTOR-M27
Connector Type	BJ30FW
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	B	GROUND
5	B	GROUND
6	B	GROUND
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–

15	W	SENSOR POWER
16	W	SENSOR POWER
17	W	SENSOR POWER
18	–	–
19	–	–
20	–	–
21	SHIELD	GROUND
22	SHIELD	GROUND
23	GR	GROUND
24	SHIELD	GROUND
25	SHIELD	GROUND
26	SHIELD	GROUND
27	SHIELD	GROUND
28	SHIELD	GROUND
29	SHIELD	GROUND
30	SHIELD	GROUND
31	GR	GROUND
32	B	GROUND
33	B	GROUND

ABNIA9111GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M155
Connector Name	PRESET SWITCH
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	G/W	AIRBAG CUTOFF
4	BR	ILL
5	W/L	ENCD-B 2
6	G	ENCD-PUSH 1
7	L	ENCD-B 1
8	Y	KEY-SCAN IN 2
9	R	KEY-SCAN IN 0
10	W/V	KEY-SCAN OUT 1
11	W/B	KEY-SCAN OUT 3
12	P	CD (DVD) EJECT
13	–	–
14	–	–
15	V	ILL CONT
16	G	ENCD-A 2
17	L/R	ENCD-PUSH 2
18	GR	ENCD-A 1
19	W/R	KEY-SCAN IN 3
20	O	KEY-SCAN IN 1
21	G	KEY-SCAN OUT 0
22	L	KEY-SCAN OUT 2
23	SB	KEY-SCAN OUT 4
24	B	GND

Connector No.	M158
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS
Connector Color	WHITE

H.S.

1	2	3	4
5	6	7	8	9	10
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Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT DOOR RH HARNESS
2	B	TO FRONT DOOR RH HARNESS
3	SHIELD	TO FRONT DOOR RH HARNESS
4	BR	TO FRONT DOOR RH HARNESS
5	Y	TO FRONT DOOR RH HARNESS
6	L	TO FRONT DOOR RH HARNESS
7	LG	TO FRONT DOOR RH HARNESS
8	GR	TO FRONT DOOR RH HARNESS
9	BR	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
9	G	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
10	Y	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
10	W	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

Connector No.	M167
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16
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Terminal No.	Color of Wire	Signal Name
1	B	TO FRONT DOOR LH HARNESS
2	V	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	V	TO FRONT DOOR LH HARNESS
5	SB	TO FRONT DOOR LH HARNESS
6	BR	TO FRONT DOOR LH HARNESS
7	Y	TO FRONT DOOR LH HARNESS
8	W	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
8	V	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
9	P	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
9	G	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
9	SB	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
10	L	TO FRONT DOOR LH HARNESS
11	BR	TO FRONT DOOR LH HARNESS
12	Y	TO FRONT DOOR LH HARNESS
13	LG	TO FRONT DOOR LH HARNESS
14	SHIELD	TO FRONT DOOR LH HARNESS
15	B	TO FRONT DOOR LH HARNESS
16	W	TO FRONT DOOR LH HARNESS

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO FRONT DOOR LH HARNESS
2	R	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	P	TO FRONT DOOR LH HARNESS
5	V	TO FRONT DOOR LH HARNESS
6	R	TO FRONT DOOR LH HARNESS
7	G	TO FRONT DOOR LH HARNESS
8	P	TO FRONT DOOR LH HARNESS
9	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
9	R	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
10	R	TO FRONT DOOR LH HARNESS
11	G	TO FRONT DOOR LH HARNESS
12	P	TO FRONT DOOR LH HARNESS
13	P	TO FRONT DOOR LH HARNESS
14	BG	TO FRONT DOOR LH HARNESS
15	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	G	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
16	G	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
17	G	TO FRONT DOOR LH HARNESS
18	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	BG	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	W	TO FRONT DOOR LH HARNESS
20	SB	TO FRONT DOOR LH HARNESS
21	P	TO FRONT DOOR LH HARNESS
22	W	TO FRONT DOOR LH HARNESS
23	G	TO FRONT DOOR LH HARNESS
24	SB	TO FRONT DOOR LH HARNESS
25	R	TO FRONT DOOR LH HARNESS
26	B	TO FRONT DOOR LH HARNESS
27	–	TO FRONT DOOR LH HARNESS
28	B	TO FRONT DOOR LH HARNESS
29	SHIELD	TO FRONT DOOR LH HARNESS
30	R	TO FRONT DOOR LH HARNESS
31	G	TO FRONT DOOR LH HARNESS
32	W	TO FRONT DOOR LH HARNESS
33	BG	TO FRONT DOOR LH HARNESS
34	Y	TO FRONT DOOR LH HARNESS
35	R	TO FRONT DOOR LH HARNESS
36	BG	TO FRONT DOOR LH HARNESS
37	W	TO FRONT DOOR LH HARNESS
38	P	TO FRONT DOOR LH HARNESS
39	W	TO FRONT DOOR LH HARNESS
40	P	TO FRONT DOOR LH HARNESS

ABNIA9112GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M170
Connector Name	JOINT CONNECTOR-M09
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SHIELD	SHIELD
2	Y	SHIELD
3	SHIELD	SHIELD
4	–	–
5	–	–
6	GR	SHIELD
7	SHIELD	SHIELD
8	SHIELD	SHIELD
9	SHIELD	SHIELD
10	SHIELD	SHIELD
11	–	–
12	G	SENS GND
13	–	–
14	G	SENS GND
15	G	SENS GND
16	G	SENS GND
17	G	SENS GND
18	Y	SENS GND
19	Y	SENS GND
20	Y	SENS GND
21	Y	SENS GND
22	Y	SENS GND
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	W	PW LIN
29	W	PW LIN
30	W	PW LIN
31	–	–
32	W	PW LIN
33	W	PW LIN

Connector No.	M171
Connector Name	JOINT CONNECTOR-M10
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	P	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
2	SB	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
3	P	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
3	SB	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
4	P	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
4	SB	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M172
Connector Name	JOINT CONNECTOR-M11
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
2	V	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
3	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
3	V	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
4	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
4	V	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M173
Connector Name	JOINT CONNECTOR-M12
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	G	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
2	BR	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
3	G	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
3	BR	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)
4	G	FR DOOR LH+ OUT (WITH BOSE AUDIO SYSTEM)
4	BR	FR DOOR LH+ OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M174
Connector Name	JOINT CONNECTOR-M13
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
2	Y	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
3	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
3	Y	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)
4	W	FR DOOR LH- OUT (WITH BOSE AUDIO SYSTEM)
4	Y	FR DOOR LH- OUT (WITH BASE AUDIO SYSTEM)

Connector No.	M175
Connector Name	JOINT CONNECTOR-M22
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	BATTERY
2	Y	BATTERY
3	Y	BATTERY
4	Y	BATTERY
5	Y	BATTERY
6	Y	BATTERY
7	Y	BATTERY
8	Y	BATTERY
9	Y	BATTERY
10	–	–
11	Y	BATTERY
12	R	BATTERY
13	R	BATTERY
14	R	BATTERY
15	B	ILLUMI CONT OUT
16	B	ILLUMI CONT OUT
17	B	ILLUMI CONT OUT
18	–	–
19	L	DOOR LOCK DR/AS/FL
20	L	DOOR LOCK DR/AS/FL
21	L	DOOR LOCK DR/AS/FL
22	L	DOOR LOCK DR/AS/FL
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	–	–
29	P	ACCESSORY
30	P	ACCESSORY
31	P	ACCESSORY
32	P	ACCESSORY
33	–	–

ABNIA9113GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M176
Connector Name	JOINT CONNECTOR-M56
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	M CAN-H
2	SB	M CAN-H
3	SB	M CAN-H
4	SB	M CAN-H

Connector No.	M177
Connector Name	JOINT CONNECTOR-M57
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	M CAN-L
2	LG	M CAN-L
3	LG	M CAN-L
4	LG	M CAN-L

Connector No.	M178
Connector Name	JOINT CONNECTOR-M58
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	M CAN-H
2	B	M CAN-H
3	SB	M CAN-H
4	–	–

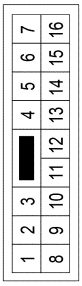
Connector No.	M179
Connector Name	JOINT CONNECTOR-M59
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	M CAN-L
2	W	M CAN-L
3	LG	M CAN-L
4	–	–

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO CONSOLE SWITCH SUB HARNESS
2	Y	TO CONSOLE SWITCH SUB HARNESS
3	V	TO CONSOLE SWITCH SUB HARNESS
4	–	TO CONSOLE SWITCH SUB HARNESS
5	SHIELD	TO CONSOLE SWITCH SUB HARNESS
6	W	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	BG	TO CONSOLE SWITCH SUB HARNESS
9	B	TO CONSOLE SWITCH SUB HARNESS
10	B	TO CONSOLE SWITCH SUB HARNESS
11	R	TO CONSOLE SWITCH SUB HARNESS
12	BR	TO CONSOLE SWITCH SUB HARNESS
13	LG	TO CONSOLE SWITCH SUB HARNESS
14	L	TO CONSOLE SWITCH SUB HARNESS
15	LG	TO CONSOLE SWITCH SUB HARNESS
16	Y	TO CONSOLE SWITCH SUB HARNESS

ABNIA9114GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M202
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	W	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	SB	TO CONSOLE SWITCH SUB HARNESS
10	W	TO CONSOLE SWITCH SUB HARNESS
11	B	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	B	TO CONSOLE SWITCH SUB HARNESS
14	LG	TO CONSOLE SWITCH SUB HARNESS
15	W	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	B	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	B	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	R	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	L	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M205
Connector Name	FRONT AUXILIARY INPUT JACKS
Connector Type	A08FW
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
1	W	AUX AUDIO RH+
2	B	AUX GND
3	R	AUX AUDIO LH+
4	–	–
5	–	–
6	–	–
7	W	COMP1 IN +
8	B	COMP1 IN -

Connector No.	M208
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SWITCH SUB HARNESS
2	SHIELD	TO CONSOLE SWITCH SUB HARNESS
3	B	TO CONSOLE SWITCH SUB HARNESS
4	W	TO CONSOLE SWITCH SUB HARNESS
5	SB	TO CONSOLE SWITCH SUB HARNESS
6	G	TO CONSOLE SWITCH SUB HARNESS
7	R	TO CONSOLE SWITCH SUB HARNESS
8	SHIELD	TO CONSOLE SWITCH SUB HARNESS
9	W	TO CONSOLE SWITCH SUB HARNESS
10	B	TO CONSOLE SWITCH SUB HARNESS
11	V	TO CONSOLE SWITCH SUB HARNESS
12	G	TO CONSOLE SWITCH SUB HARNESS
13	R	TO CONSOLE SWITCH SUB HARNESS
14	SHIELD	TO CONSOLE SWITCH SUB HARNESS
15	W	TO CONSOLE SWITCH SUB HARNESS
16	B	TO CONSOLE SWITCH SUB HARNESS
17	SHIELD	TO CONSOLE SWITCH SUB HARNESS
18	B	TO CONSOLE SWITCH SUB HARNESS
19	R	TO CONSOLE SWITCH SUB HARNESS
20	W	TO CONSOLE SWITCH SUB HARNESS
21	L	TO CONSOLE SWITCH SUB HARNESS
22	G	TO CONSOLE SWITCH SUB HARNESS
23	R	TO CONSOLE SWITCH SUB HARNESS
24	SHIELD	TO CONSOLE SWITCH SUB HARNESS
25	W	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	L	TO CONSOLE SWITCH SUB HARNESS
28	G	TO CONSOLE SWITCH SUB HARNESS
29	R	TO CONSOLE SWITCH SUB HARNESS
30	SHIELD	TO CONSOLE SWITCH SUB HARNESS
31	W	TO CONSOLE SWITCH SUB HARNESS
32	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M209
Connector Name	USB INTERFACE
Connector Type	HAA04FG
Connector Color	GREEN

H.S.

2	1
4	3
5	

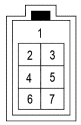
Terminal No.	Color of Wire	Signal Name
1	B	USB GND
2	R	V-BUS
3	W	USB D-
4	G	USB D+
5	SHIELD	SHIELD

ABNIA9115GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M210
Connector Name	WIRE TO WIRE
Connector Type	GT17VS-6DP-HU
Connector Color	GRAY

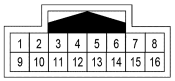
H.S.



Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	W	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	G	TO MAIN HARNESS
7	–	TO MAIN HARNESS

Connector No.	M214
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH
Connector Color	WHITE

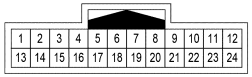
H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	V	TO MAIN HARNESS
5	Y	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS
10	–	TO MAIN HARNESS
11	–	TO MAIN HARNESS
12	–	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	R	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	SHIELD	TO MAIN HARNESS

Connector No.	M215
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

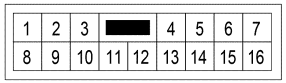
H.S.



Terminal No.	Color of Wire	Signal Name
1	SB	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	W	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	V	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	R	TO MAIN HARNESS
10	SHIELD	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	L	TO MAIN HARNESS
14	G	TO MAIN HARNESS
15	R	TO MAIN HARNESS
16	SHIELD	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	B	TO MAIN HARNESS
19	L	TO MAIN HARNESS
20	G	TO MAIN HARNESS
21	R	TO MAIN HARNESS
22	SHIELD	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	B	TO MAIN HARNESS

Connector No.	M216
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

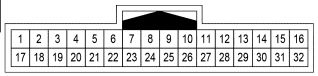
H.S.



Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	R	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	B	TO MAIN HARNESS
8	BG	TO MAIN HARNESS
9	B	TO MAIN HARNESS
10	–	TO MAIN HARNESS
11	–	TO MAIN HARNESS
12	BR	TO MAIN HARNESS
13	LG	TO MAIN HARNESS
14	L	TO MAIN HARNESS
15	LG	TO MAIN HARNESS
16	Y	TO MAIN HARNESS

Connector No.	M217
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

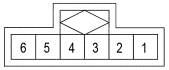
H.S.



Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	BG	TO MAIN HARNESS
3	Y	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	P	TO MAIN HARNESS
7	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	W	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	L	TO MAIN HARNESS
9	G	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
9	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
10	V	TO MAIN HARNESS
11	P	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	SHIELD	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	W	TO MAIN HARNESS
16	R	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	L	TO MAIN HARNESS
19	G	TO MAIN HARNESS
20	Y	TO MAIN HARNESS
21	B	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	R	TO MAIN HARNESS
24	B	TO MAIN HARNESS
25	G	TO MAIN HARNESS
26	W	TO MAIN HARNESS
27	LG	TO MAIN HARNESS
28	B	TO MAIN HARNESS
29	BR	TO MAIN HARNESS
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	W	TO MAIN HARNESS

Connector No.	M230
Connector Name	JOINT CONNECTOR-M01
Connector Type	A06FGY
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	B	GND
3	SHIELD	GND
4	SHIELD	GND
5	–	–
6	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M231
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	SB	TO CONSOLE SWITCH SUB HARNESS
10	G	TO CONSOLE SWITCH SUB HARNESS
11	R	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	W	TO CONSOLE SWITCH SUB HARNESS
14	B	TO CONSOLE SWITCH SUB HARNESS
15	V	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	SHIELD	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	–	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	R	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	L	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M251
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO CONSOLE SUB HARNESS
2	Y	TO CONSOLE SUB HARNESS
3	V	TO CONSOLE SUB HARNESS
4	G	TO CONSOLE SUB HARNESS
5	SHIELD	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	BG	TO CONSOLE SUB HARNESS
9	B	TO CONSOLE SUB HARNESS
10	B	TO CONSOLE SUB HARNESS
11	R	TO CONSOLE SUB HARNESS
12	P	TO CONSOLE SUB HARNESS
13	BR	TO CONSOLE SUB HARNESS
14	SB	TO CONSOLE SUB HARNESS
15	LG	TO CONSOLE SUB HARNESS
16	Y	TO CONSOLE SUB HARNESS

Connector No.	M254
Connector Name	REAR AUXILIARY INPUT JACKS
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	VTR VIDEO+ OUT
2	B	VTR VIDEO- OUT
3	B	VTR AUDIO GND
4	R	VTR AUDIO L+ OUT
5	W	VTR AUDIO R+ OUT
6	–	–
7	–	–
8	–	–
9	SHIELD	AUDIO SHIELD IN1
10	–	–
11	R	RR AUDIO R+ IN1
12	–	–
13	G	RR AUDIO R- IN1
14	B	RR AUDIO L+ IN1
15	V	AV GND IN (A GND)
16	W	RR AUDIO L- IN1
17	R	RR AUDIO R+ IN2
18	BG	AV GND IN2 (A GND)
19	G	RR AUDIO R- IN2
20	R	RR AUDIO L+ IN2
21	SHIELD	AUDIO SHIELD IN2
22	W	RR AUDIO L- IN2
23	SHIELD	AUDIO SHIELD OUT2
24	W	RR AUDIO L- OUT1
25	G	RR AUDIO R- OUT2
26	B	RR AUDIO L+ OUT2
27	R	RR AUDIO R+ OUT2
28	L	AV GND OUT2 (A GND)
29	P	AV GND OUT1 (A GND)
30	W	RR AUDIO L- OUT1
31	G	RR AUDIO R- OUT1
32	B	RR AUDIO L+ OUT1
33	R	RR AUDIO R+ OUT1
34	–	–
35	SHIELD	AUDIO SHIELD OUT1
36	–	–
37	–	–
38	V	ACC
39	B	GND (POWER)
40	Y	BAT

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M257
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SUB HARNESS
2	LG	TO CONSOLE SUB HARNESS
3	W	TO CONSOLE SUB HARNESS
4	G	TO CONSOLE SUB HARNESS
5	–	TO CONSOLE SUB HARNESS
6	SHIELD	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	W	TO CONSOLE SUB HARNESS
9	BG	TO CONSOLE SUB HARNESS
10	W	TO CONSOLE SUB HARNESS
11	B	TO CONSOLE SUB HARNESS
12	SHIELD	TO CONSOLE SUB HARNESS
13	B	TO CONSOLE SUB HARNESS
14	LG	TO CONSOLE SUB HARNESS
15	W	TO CONSOLE SUB HARNESS
16	G	TO CONSOLE SUB HARNESS
17	R	TO CONSOLE SUB HARNESS
18	B	TO CONSOLE SUB HARNESS
19	W	TO CONSOLE SUB HARNESS
20	B	TO CONSOLE SUB HARNESS
21	B	TO CONSOLE SUB HARNESS
22	R	TO CONSOLE SUB HARNESS
23	B	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS
25	SHIELD	TO CONSOLE SUB HARNESS
26	R	TO CONSOLE SUB HARNESS
27	B	TO CONSOLE SUB HARNESS
28	W	TO CONSOLE SUB HARNESS
29	L	TO CONSOLE SUB HARNESS
30	G	TO CONSOLE SUB HARNESS
31	R	TO CONSOLE SUB HARNESS
32	SHIELD	TO CONSOLE SUB HARNESS
33	W	TO CONSOLE SUB HARNESS
34	B	TO CONSOLE SUB HARNESS
35	P	TO CONSOLE SUB HARNESS
36	G	TO CONSOLE SUB HARNESS
37	R	TO CONSOLE SUB HARNESS
38	SHIELD	TO CONSOLE SUB HARNESS

39	W	TO CONSOLE SUB HARNESS
40	B	TO CONSOLE SUB HARNESS

Connector No.	M259
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SUB HARNESS
2	SHIELD	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	W	TO CONSOLE SUB HARNESS
5	BG	TO CONSOLE SUB HARNESS
6	G	TO CONSOLE SUB HARNESS
7	R	TO CONSOLE SUB HARNESS
8	SHIELD	TO CONSOLE SUB HARNESS
9	W	TO CONSOLE SUB HARNESS
10	B	TO CONSOLE SUB HARNESS
11	V	TO CONSOLE SUB HARNESS
12	G	TO CONSOLE SUB HARNESS
13	R	TO CONSOLE SUB HARNESS
14	SHIELD	TO CONSOLE SUB HARNESS
15	W	TO CONSOLE SUB HARNESS
16	B	TO CONSOLE SUB HARNESS
17	SHIELD	TO CONSOLE SUB HARNESS
18	R	TO CONSOLE SUB HARNESS
19	B	TO CONSOLE SUB HARNESS
20	W	TO CONSOLE SUB HARNESS
21	L	TO CONSOLE SUB HARNESS
22	G	TO CONSOLE SUB HARNESS
23	R	TO CONSOLE SUB HARNESS
24	SHIELD	TO CONSOLE SUB HARNESS
25	W	TO CONSOLE SUB HARNESS
26	B	TO CONSOLE SUB HARNESS
27	P	TO CONSOLE SUB HARNESS
28	G	TO CONSOLE SUB HARNESS
29	R	TO CONSOLE SUB HARNESS
30	SHIELD	TO CONSOLE SUB HARNESS
31	W	TO CONSOLE SUB HARNESS
32	B	TO CONSOLE SUB HARNESS

Connector No.	M269
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	BG	TO CONSOLE SWITCH SUB HARNESS
10	G	TO CONSOLE SWITCH SUB HARNESS
11	R	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	W	TO CONSOLE SWITCH SUB HARNESS
14	B	TO CONSOLE SWITCH SUB HARNESS
15	V	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	SHIELD	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	–	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	R	TO CONSOLE SWITCH SUB HARNESS
27	B	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	P	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M500
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1 PP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	M501
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU (B)
Connector Color	GREEN

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	SAT ANT
5	SHIELD	SAT SHIELD

Connector No.	M502
Connector Name	ANTENNA BASE
Connector Type	GT17VSN-6DP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT +B
2	B	ANT MAIN
3	SHIELD	SHIELD

Connector No.	M503
Connector Name	WIRE TO WIRE
Connector Type	GT13S-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	M504
Connector Name	WIRE TO WIRE
Connector Type	GT13S-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	M505
Connector Name	GLASS ANTENNA (FM SUB)
Connector Type	P01FB-A
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT SUB

Connector No.	M509
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU (B)
Connector Color	GREEN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	W	TO MAIN HARNESS
4	Y/R	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	Y	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	W	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	P/G	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	SHIELD	TO MAIN HARNESS
16	P	TO MAIN HARNESS
17	BG	TO MAIN HARNESS
18	–	TO MAIN HARNESS
19	V	TO MAIN HARNESS
20	W	TO MAIN HARNESS
21	SB	TO MAIN HARNESS
22	L	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	B	TO MAIN HARNESS

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	TO ROOM LAMP HARNESS
2	B	TO ROOM LAMP HARNESS
3	BG	TO ROOM LAMP HARNESS
4	P	TO ROOM LAMP HARNESS
5	SHIELD	TO ROOM LAMP HARNESS
6	B	TO ROOM LAMP HARNESS
7	W	TO ROOM LAMP HARNESS
8	B	TO ROOM LAMP HARNESS
9	B	TO ROOM LAMP HARNESS
10	W	TO ROOM LAMP HARNESS
11	R	TO ROOM LAMP HARNESS
12	G	TO ROOM LAMP HARNESS
13	–	TO ROOM LAMP HARNESS
14	–	TO ROOM LAMP HARNESS
15	L	TO ROOM LAMP HARNESS
16	SB	TO ROOM LAMP HARNESS
17	–	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	–	TO ROOM LAMP HARNESS
20	–	TO ROOM LAMP HARNESS
21	SB	TO ROOM LAMP HARNESS
22	L	TO ROOM LAMP HARNESS
23	BR	TO ROOM LAMP HARNESS
24	V	TO ROOM LAMP HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION WITHOUT SURROUND SOUND SYSTEM

Connector No.	R101
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	V	TO ROOM LAMP HARNESS
2	R	TO ROOM LAMP HARNESS
3	G	TO ROOM LAMP HARNESS
4	P	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	L	TO ROOM LAMP HARNESS
7	R	TO ROOM LAMP HARNESS
8	B	TO ROOM LAMP HARNESS
9	B	TO ROOM LAMP HARNESS
10	W	TO ROOM LAMP HARNESS
11	R	TO ROOM LAMP HARNESS
12	G	TO ROOM LAMP HARNESS
13	–	TO ROOM LAMP HARNESS
14	–	TO ROOM LAMP HARNESS
15	L	TO ROOM LAMP HARNESS
16	SB	TO ROOM LAMP HARNESS
17	–	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	–	TO ROOM LAMP HARNESS
20	–	TO ROOM LAMP HARNESS
21	–	TO ROOM LAMP HARNESS
22	–	TO ROOM LAMP HARNESS
23	BR	TO ROOM LAMP HARNESS
24	L	TO ROOM LAMP HARNESS

Connector No.	R105
Connector Name	TELEMATICS SWITCH
Connector Type	TH08FW-NH
Connector Color	WHITE

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	V	ACC
2	G	LED A
3	P	ECALL SW
4	–	–
5	W	ILL
6	B	ILL CONT
7	R	GROUND
8	–	–

Connector No.	R109
Connector Name	MICROPHONE
Connector Type	TK04FW
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	R	MIC VCC
2	–	–
3	GR	MIC GND
4	L	MIC SIG

ABNIA9120GB

BOSE AUDIO W/NAVI W/SURROUND

Wiring Diagram

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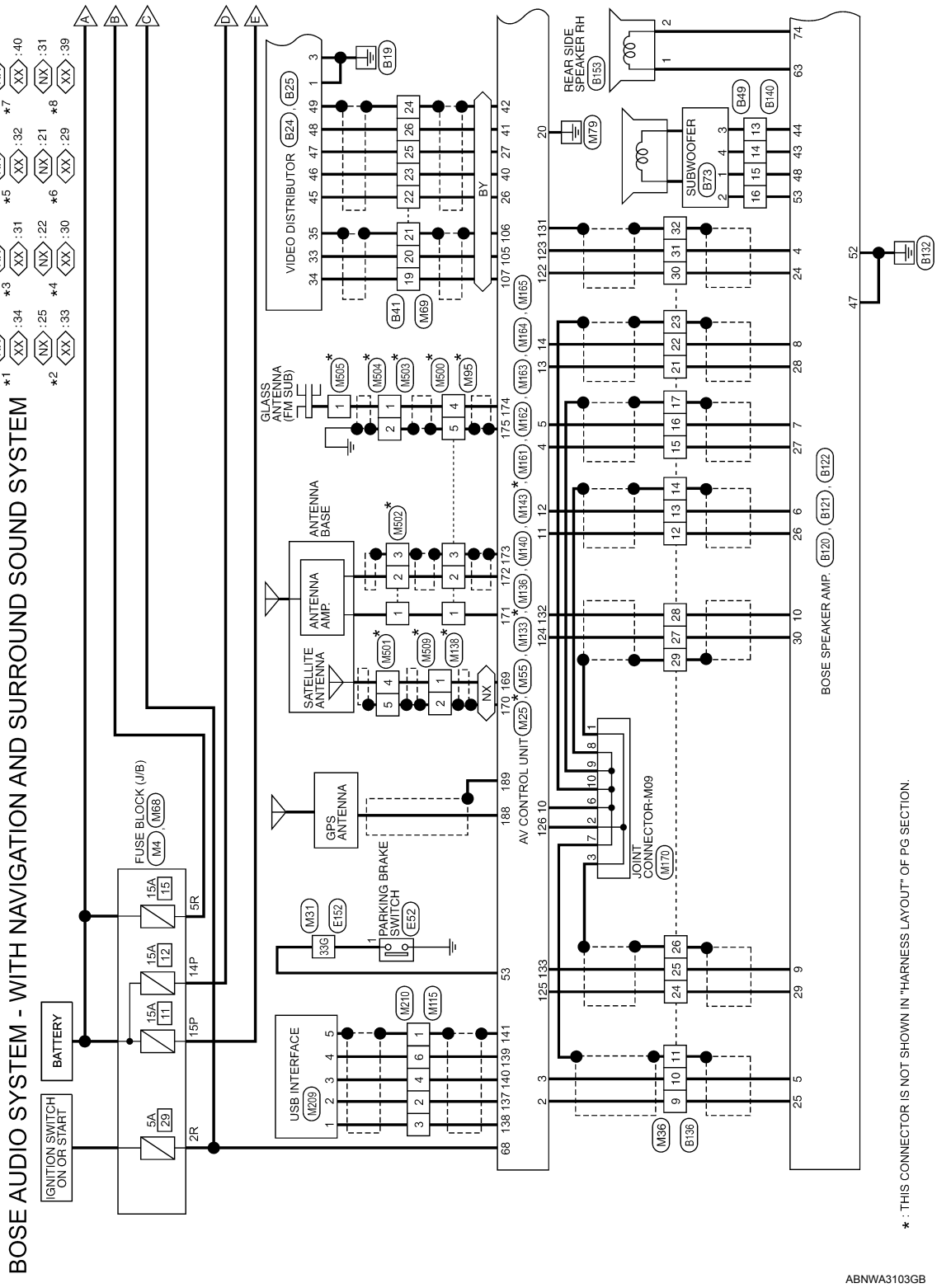

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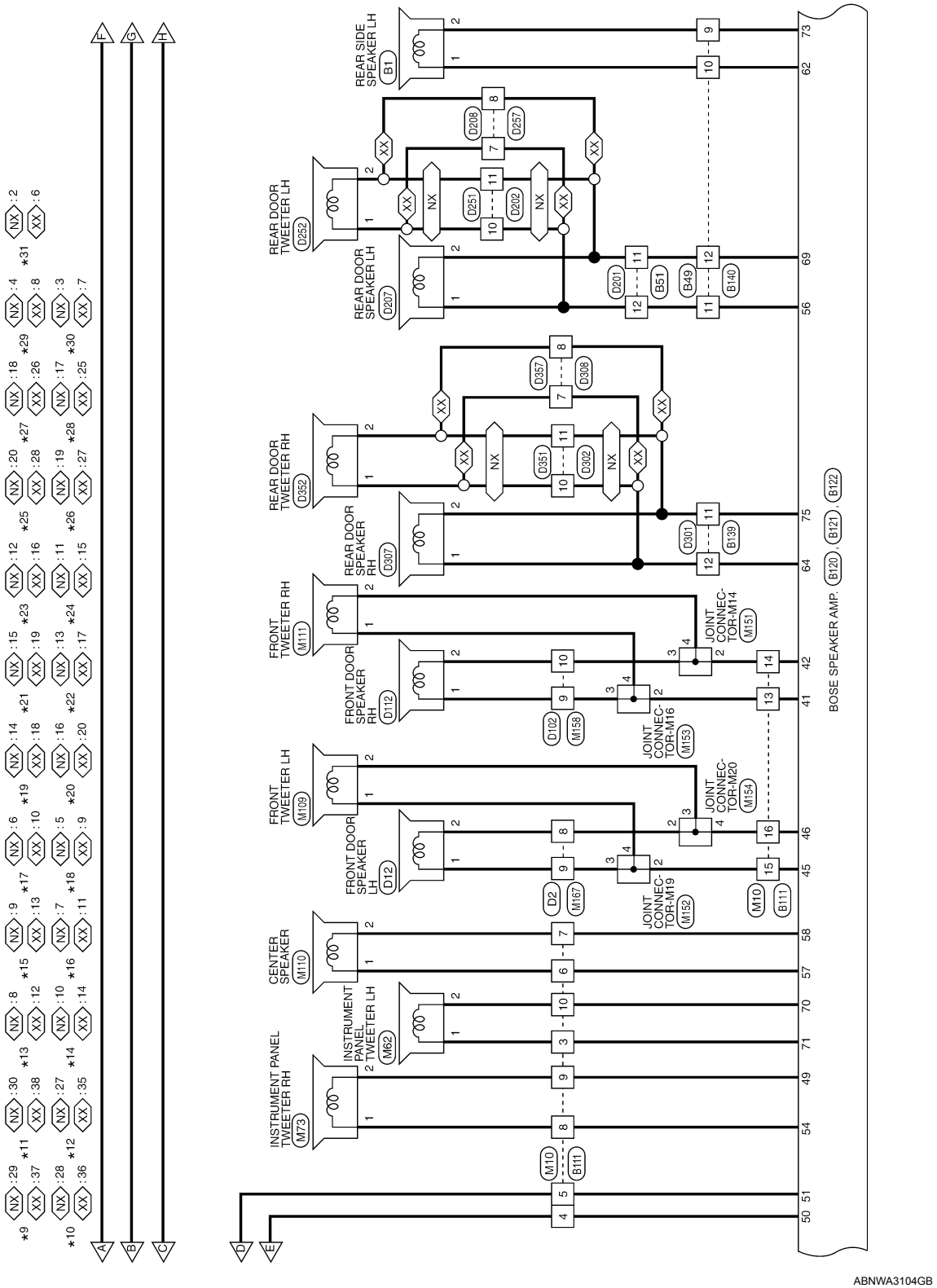
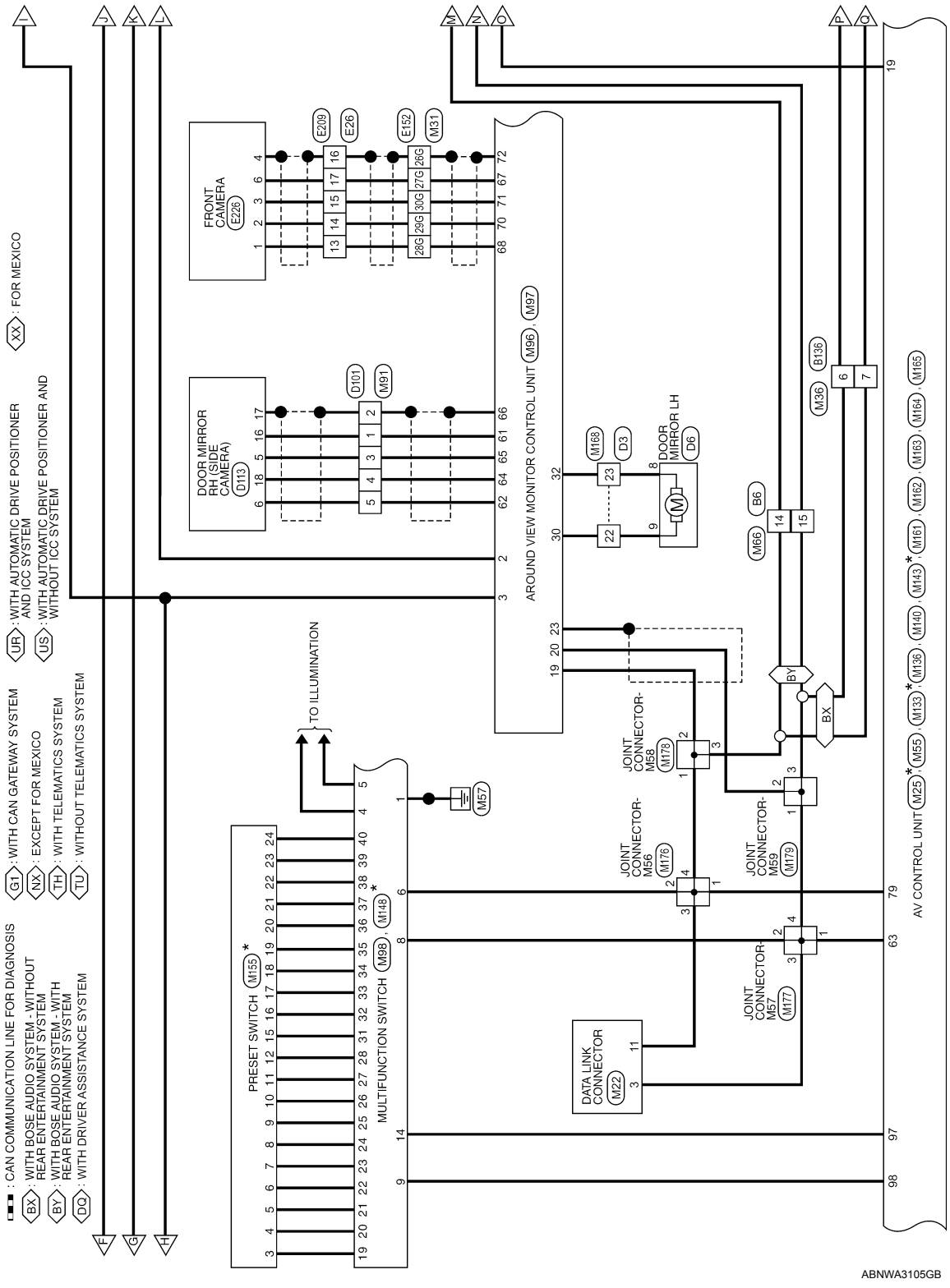
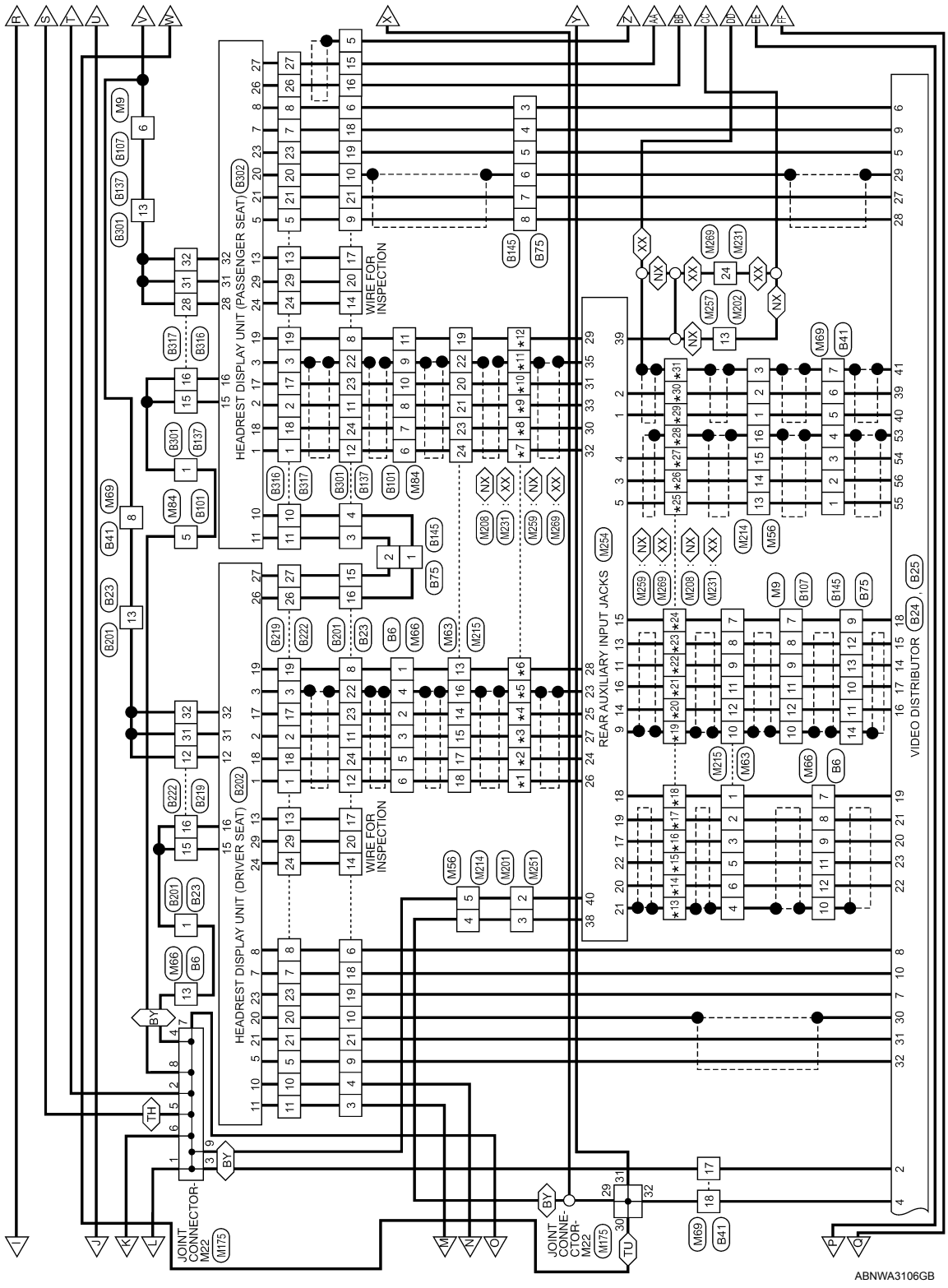
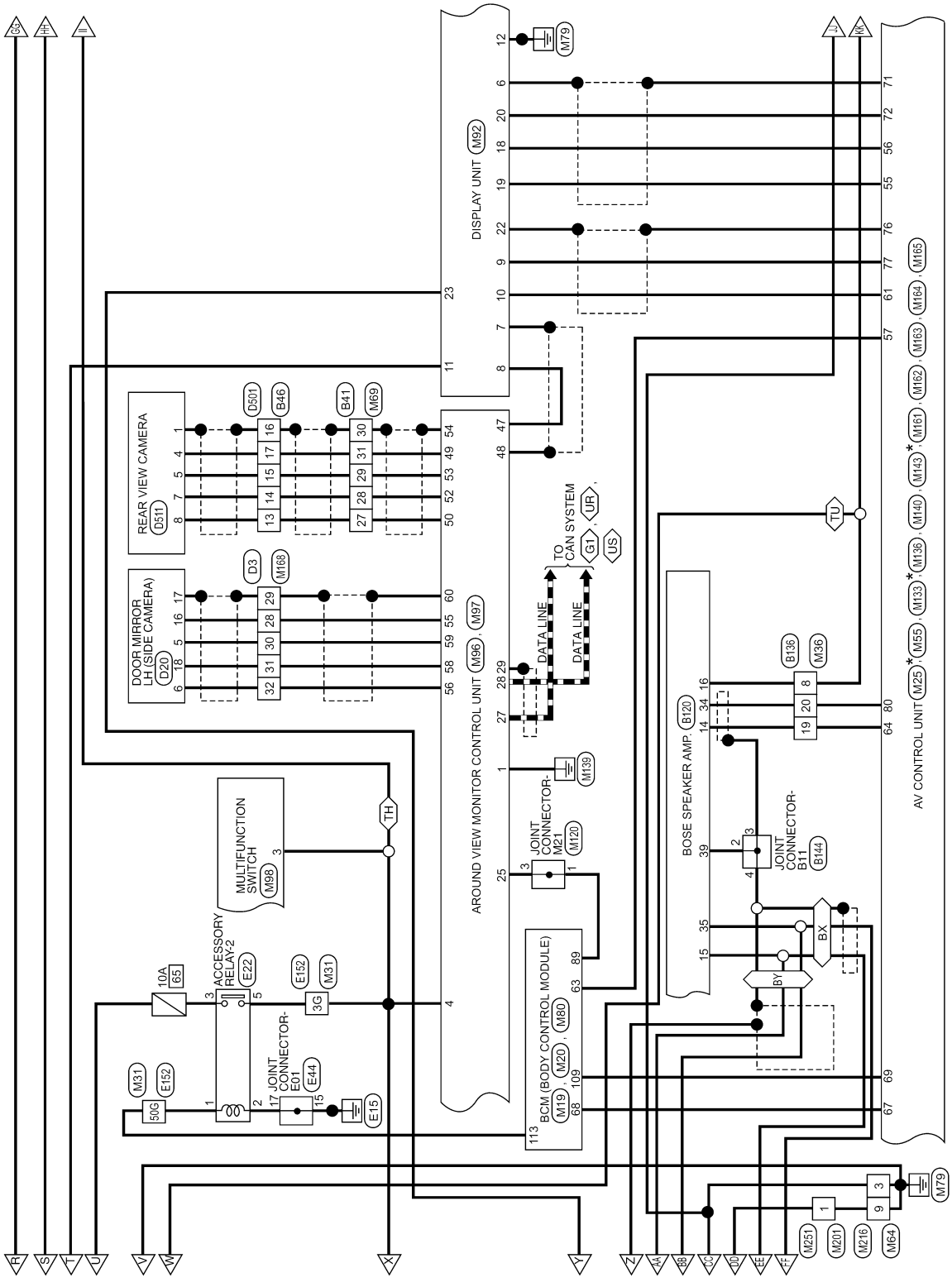
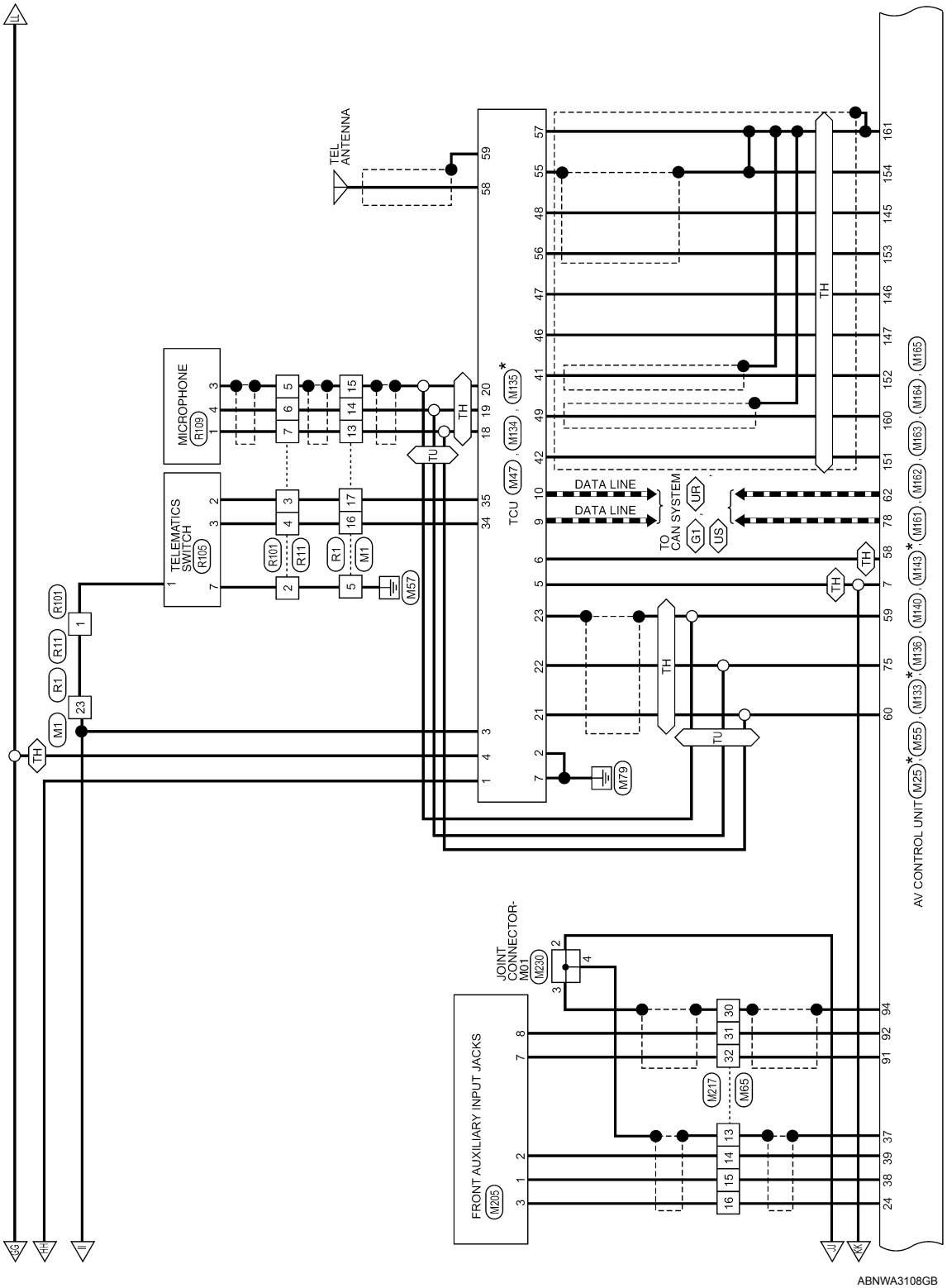

REAR SIDE SPEAKER LH B1
REAR DOOR TWEETER LH D252
REAR DOOR SPEAKER LH D207
REAR DOOR TWEETER RH D352
REAR DOOR SPEAKER RH D307
FRONT TWEETER RH M111
FRONT DOOR SPEAKER RH D112
FRONT TWEETER LH M109
FRONT DOOR SPEAKER LH D12
CENTER SPEAKER M110
INSTRUMENT PANEL TWEETER LH M62
INSTRUMENT PANEL TWEETER RH M73
JOINT CONNEC-TOR-M14 M151
JOINT CONNEC-TOR-M16 M153
JOINT CONNEC-TOR-M20 M154
JOINT CONNEC-TOR-M19 M152
BOSE SPEAKER AMP. B120, B121, B122
ABNWA3104GB


: CAN COMMUNICATION LINE FOR DIAGNOSIS
BX : WITH BOSE AUDIO SYSTEM - WITHOUT REAR ENTERTAINMENT SYSTEM
BY : WITH BOSE AUDIO SYSTEM - WITH REAR ENTERTAINMENT SYSTEM
DQ : WITH DRIVER ASSISTANCE SYSTEM
G1 : WITH CAN GATEWAY SYSTEM
NX : EXCEPT FOR MEXICO
TH : WITH TELEMATICS SYSTEM
TU : WITHOUT TELEMATICS SYSTEM
UR : WITH AUTOMATIC DRIVE POSITIONER AND ICC SYSTEM
US : WITH AUTOMATIC DRIVE POSITIONER AND WITHOUT ICC SYSTEM
XX : FOR MEXICO
FRONT CAMERA E226
DOOR MIRROR RH (SIDE CAMERA) D113
AROUND VIEW MONITOR CONTROL UNIT M96, M97
DOOR MIRROR LH D6
PRESET SWITCH M155 *
MULTIFUNCTION SWITCH M98, M148 *
TO ILLUMINATION
M57
JOINT CONNECTOR-M58 M178
JOINT CONNECTOR-M56 M176
JOINT CONNECTOR-M59 M179
JOINT CONNECTOR-M57 M177
DATA LINK CONNECTOR M22
AV CONTROL UNIT M25 *, M55 *, M133 *, M136 *, M140, M143 *, M161 *, M162, M163, M164, M165
M36 B136
M66 B6
BX
BY
ABNWA3105GB


HEADREST DISPLAY UNIT (PASSENGER SEAT)
HEADREST DISPLAY UNIT (DRIVER SEAT)
WIRE FOR INSPECTION
REAR AUXILIARY INPUT JACKS
VIDEO DISTRIBUTOR
JOINT CONNECTOR-M22
ABNWA3106GB


DISPLAY UNIT M92
AROUND VIEW MONITOR CONTROL UNIT M96, M97
AV CONTROL UNIT M25*, M55, M133*, M136, M140, M143*, M161, M162, M163, M164, M165
REAR VIEW CAMERA D511
DOOR MIRROR LH (SIDE CAMERA) D20
MULTIFUNCTION SWITCH M98
ACCESSORY RELAY-2 E22
10A 65
50G M31 E152
3G M31 E152
JOINT CONNECTOR-E01 E44
JOINT CONNECTOR-M21 M120
JOINT CONNECTOR-B11 B144
BCM (BODY CONTROL MODULE) M19, M20, M80
BOSE SPEAKER AMP. B120
DATA LINE
TO CAN SYSTEM G1, UR, US
TU
TH
BX
BY
ABNWA3107GB


TEL ANTENNA
MICROPHONE R109
TELEMATICS SWITCH R105
TCU M47, M134, M135*
DATA LINE
DATA LINE
TO CAN SYSTEM UR, G1, US
AV CONTROL UNIT M25*, M55*, M133*, M136, M140, M143*, M161, M162, M163, M164, M165
JOINT CONNECTOR-M01 M230
FRONT AUXILIARY INPUT JACKS M205
M217
M65
M79
M57
R101
R11
R1
M1
TH
TU
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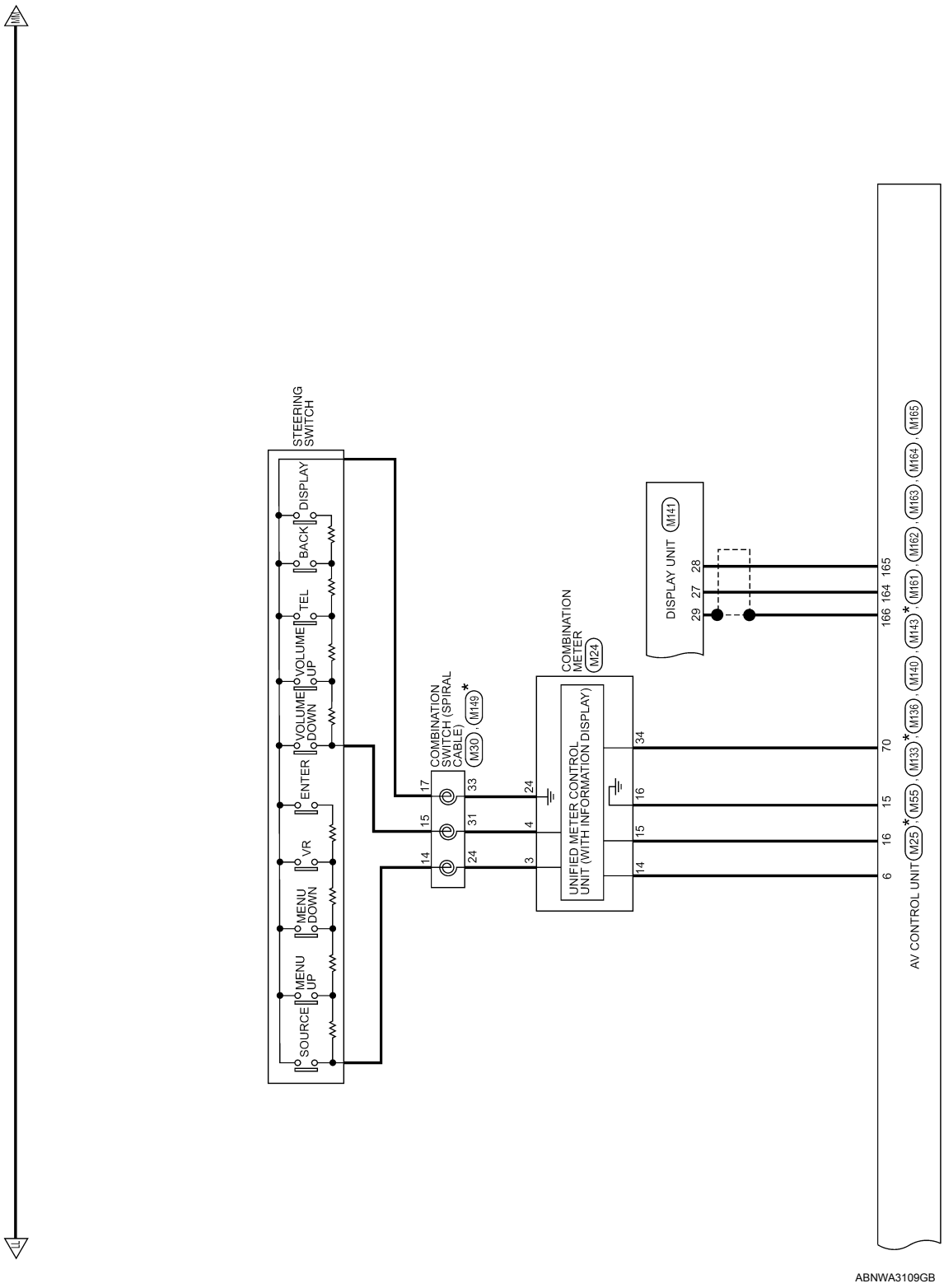
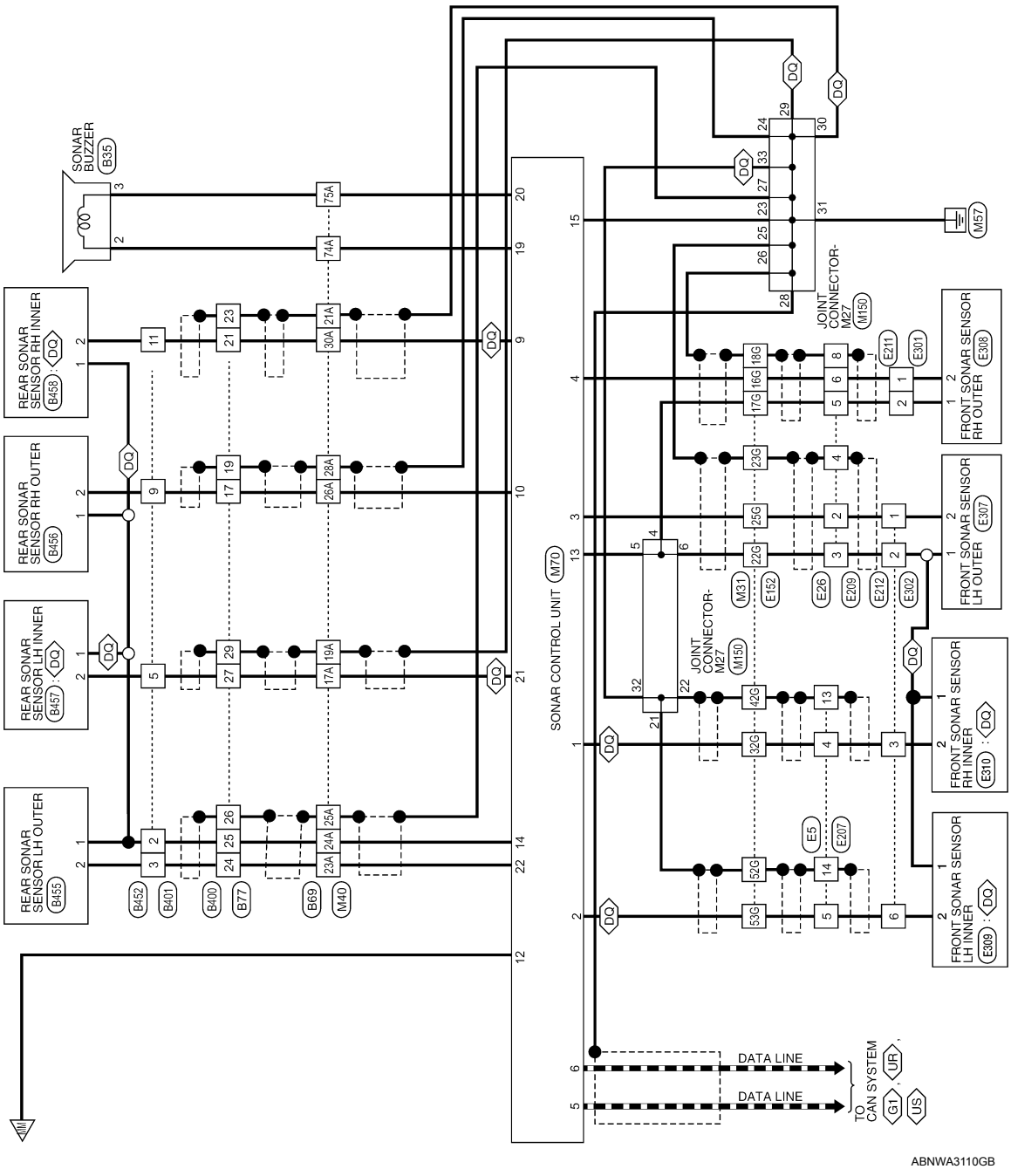

STEERING SWITCH
DISPLAY
BACK
TEL
VOLUME UP
VOLUME DOWN
ENTER
VR
MENU DOWN
MENU UP
SOURCE
COMBINATION SWITCH (SPIRAL CABLE) (M30), (M149)*
17
15
14
33
31
24
24
4
3
COMBINATION METER (M24)
UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY)
34
16
15
14
DISPLAY UNIT (M141)
29
27
28
AV CONTROL UNIT (M25)*, (M55), (M133)*, (M136), (M140), (M143)*, (M161), (M162), (M163), (M164), (M165)
6
16
15
70
166
164
165
ABNWA3109GB


SONAR BUZZER B35
REAR SONAR SENSOR RH INNER B458
REAR SONAR SENSOR RH OUTER B456
REAR SONAR SENSOR LH INNER B457
REAR SONAR SENSOR LH OUTER B455
SONAR CONTROL UNIT M70
JOINT CONNECTOR-M27 M150
JOINT CONNECTOR-M27 M150
FRONT SONAR SENSOR RH OUTER E308
FRONT SONAR SENSOR RH INNER E310
FRONT SONAR SENSOR LH OUTER E307
FRONT SONAR SENSOR LH INNER E309
M57
M31
E152
E26
E209
E212
E302
E211
E301
E5
E207
B452
B401
B400
B77
B69
M40
DQ
DATA LINE
DATA LINE
TO CAN SYSTEM
UR
G1
US
ABNWA3110GB

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B1
Connector Name	REAR SIDE SPEAKER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	RR SUR SP LH+
2	G	RR SUR SP RH-

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	P	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	Y	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
3	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
4	R	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
4	SHIELD	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
5	P	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	W	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	V	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	V	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	W	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	G	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
9	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
10	SHIELD	TO MAIN HARNESS
11	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
11	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
12	W	TO MAIN HARNESS
13	SB	TO MAIN HARNESS
14	SB	TO MAIN HARNESS
15	LG	TO MAIN HARNESS
16	LG	TO MAIN HARNESS
17	SB	TO MAIN HARNESS
18	P	TO MAIN HARNESS
19	BG	TO MAIN HARNESS
20	W	TO MAIN HARNESS
21	R	TO MAIN HARNESS
22	B	TO MAIN HARNESS
23	SHIELD	TO MAIN HARNESS
24	–	TO MAIN HARNESS

Connector No.	B23
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO FRONT SEAT LH HARNESS
2	–	TO FRONT SEAT LH HARNESS
3	SB	TO FRONT SEAT LH HARNESS
4	LG	TO FRONT SEAT LH HARNESS
5	–	TO FRONT SEAT LH HARNESS
6	BR	TO FRONT SEAT LH HARNESS
7	–	TO FRONT SEAT LH HARNESS
8	P	TO FRONT SEAT LH HARNESS
9	L	TO FRONT SEAT LH HARNESS
10	SHIELD	TO FRONT SEAT LH HARNESS
11	R	TO FRONT SEAT LH HARNESS
12	B	TO FRONT SEAT LH HARNESS
13	B	TO FRONT SEAT LH HARNESS
14	–	TO FRONT SEAT LH HARNESS
15	SB	TO FRONT SEAT LH HARNESS
16	LG	TO FRONT SEAT LH HARNESS
17	–	TO FRONT SEAT LH HARNESS
18	L	TO FRONT SEAT LH HARNESS
19	SB	TO FRONT SEAT LH HARNESS
20	–	TO FRONT SEAT LH HARNESS
21	P	TO FRONT SEAT LH HARNESS
22	SHIELD	TO FRONT SEAT LH HARNESS
23	G	TO FRONT SEAT LH HARNESS
24	W	TO FRONT SEAT LH HARNESS

Connector No.	B24
Connector Name	VIDEO DISTRIBUTOR
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	V	BAT
3	B	GND
4	BG	ACC
5	BR	CONT. GND1
6	Y	ACC DET. OUT1
7	SB	CONT. GND
8	BR	ACC DET. OUT2
9	SB	AUX RQ. IN1
10	L	AUX REQ. IN2
11	–	–
12	–	–
13	–	–
14	R	RR1 HP RH+ OUT
15	G	RR1 HP RH- OUT
16	B	RR1 HP LH+ OUT
17	W	RR1 HP LH- OUT
18	V	AV GND 1(A GND)
19	V	AV GND 2(A GND)
20	B	REAR2 HP RH+
21	G	REAR2 HP RH-
22	W	REAR2 HP LH+
23	R	REAR2 HP LH-
24	–	–
25	–	–
26	–	–
27	W	RR1 COMP- OUT
28	B	RR1 COMP+ OUT
29	SHIELD	RR1 COMP SHIELD
30	SHIELD	REAR2 COMP SHIELD
31	P	REAR2 COMP-
32	L	REAR2 COMP+

Connector No.	B25
Connector Name	VIDEO DISTRIBUTOR
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

34	36	38	40	42	44	46	48	50	52	54	56
33	35	37	39	41	43	45	47	49	51	53	55

Terminal No.	Color of Wire	Signal Name
33	W	IT M COMP- IN
34	B	IT M COMP+ IN
35	SHIELD	COMP SHIELD
36	–	–
37	–	–
38	–	–
39	W	AUX VIDEO-IN
40	B	AUX VIDEO+IN
41	SHIELD	AUX SHIELD
42	–	–
43	–	–
44	–	–
45	W	AUDIO LH+ IN
46	R	AUDIO LH- IN
47	B	AUDIO RH+ IN
48	G	AUDIO RH- IN
49	SHIELD	AUDIO SHIELD
50	–	–
51	–	–
52	–	–
53	SHIELD	AUDIO SHIELD
54	B	AUDIO LH+ IN
55	R	AUDIO RH+ IN
56	W	AUDIO LH/RH- IN

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B35
Connector Name	SONAR BUZZER
Connector Type	TH04FW-NH
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	P	SOUNDER+
3	V	SOUNDER-
4	–	–

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS - (WITHOUT NAVI)
1	R	TO MAIN HARNESS - (WITH NAVI)
2	R	TO MAIN HARNESS - (WITHOUT NAVI)
2	W	TO MAIN HARNESS - (WITH NAVI)
3	B	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	R	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	BG	TO MAIN HARNESS - (WITHOUT NAVI)
17	V	TO MAIN HARNESS - (WITH NAVI)
18	SB	TO MAIN HARNESS - (WITHOUT NAVI)
18	W	TO MAIN HARNESS - (WITH NAVI)
19	W	TO MAIN HARNESS - (WITHOUT NAVI)
19	B	TO MAIN HARNESS - (WITH NAVI)
20	B	TO MAIN HARNESS - (WITHOUT NAVI)
20	W	TO MAIN HARNESS - (WITH NAVI)
21	R	TO MAIN HARNESS - (WITHOUT NAVI)
21	SHIELD	TO MAIN HARNESS - (WITH NAVI)
22	G	TO MAIN HARNESS - (WITHOUT NAVI)
22	W	TO MAIN HARNESS - (WITH NAVI)
23	SHIELD	TO MAIN HARNESS - (WITHOUT NAVI)
23	R	TO MAIN HARNESS - (WITH NAVI)
24	SHIELD	TO MAIN HARNESS
25	B	TO MAIN HARNESS
26	G	TO MAIN HARNESS
27	W	TO MAIN HARNESS - (WITH NAVI)
27	R	TO MAIN HARNESS - (WITHOUT NAVI)
28	R	TO MAIN HARNESS - (WITH NAVI)
28	B	TO MAIN HARNESS - (WITHOUT NAVI)
29	G	TO MAIN HARNESS - (WITH NAVI)
29	W	TO MAIN HARNESS - (WITHOUT NAVI)
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	V	TO BACK DOOR LH HARNESS
2	Y	TO BACK DOOR LH HARNESS
3	BR	TO BACK DOOR LH HARNESS
4	SB	TO BACK DOOR LH HARNESS
5	LG	TO BACK DOOR LH HARNESS
6	L	TO BACK DOOR LH HARNESS
7	LG	TO BACK DOOR LH HARNESS
8	BR	TO BACK DOOR LH HARNESS
9	W	TO BACK DOOR LH HARNESS
10	R	TO BACK DOOR LH HARNESS
11	G	TO BACK DOOR LH HARNESS
12	W	TO BACK DOOR LH HARNESS
13	W	TO BACK DOOR LH HARNESS - (WITH NAVI)
13	R	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
14	R	TO BACK DOOR LH HARNESS - (WITH NAVI)
14	B	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
15	G	TO BACK DOOR LH HARNESS - (WITH NAVI)
15	W	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
16	SHIELD	TO BACK DOOR LH HARNESS
17	B	TO BACK DOOR LH HARNESS
18	–	TO BACK DOOR LH HARNESS
19	W	TO BACK DOOR LH HARNESS
20	W	TO BACK DOOR LH HARNESS
21	G	TO BACK DOOR LH HARNESS
22	BR	TO BACK DOOR LH HARNESS
23	GR	TO BACK DOOR LH HARNESS
24	G	TO BACK DOOR LH HARNESS

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	L	TO BODY HARNESS RH
6	BR	TO BODY HARNESS RH
7	Y	TO BODY HARNESS RH
8	–	TO BODY HARNESS RH
9	G	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	P	TO BODY HARNESS RH
12	R	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	R	TO BODY HARNESS RH
15	B	TO BODY HARNESS RH
16	W	TO BODY HARNESS RH

Connector No.	B51
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO REAR DOOR LH HARNESS
2	BR	TO REAR DOOR LH HARNESS
3	B	TO REAR DOOR LH HARNESS
4	R	TO REAR DOOR LH HARNESS
5	–	TO REAR DOOR LH HARNESS
6	–	TO REAR DOOR LH HARNESS
7	–	TO REAR DOOR LH HARNESS
8	Y	TO REAR DOOR LH HARNESS
9	–	TO REAR DOOR LH HARNESS
10	–	TO REAR DOOR LH HARNESS
11	R	TO REAR DOOR LH HARNESS
12	P	TO REAR DOOR LH HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	–	TO MAIN HARNESS
2A	Y	TO MAIN HARNESS
3A	Y	TO MAIN HARNESS
4A	G	TO MAIN HARNESS
5A	–	TO MAIN HARNESS
6A	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	R	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	BR	TO MAIN HARNESS
8A	G	TO MAIN HARNESS
9A	P	TO MAIN HARNESS
10A	–	TO MAIN HARNESS
11A	W	TO MAIN HARNESS
12A	G	TO MAIN HARNESS
13A	–	TO MAIN HARNESS
14A	R	TO MAIN HARNESS
15A	G	TO MAIN HARNESS
16A	W	TO MAIN HARNESS
17A	B	TO MAIN HARNESS
18A	B	TO MAIN HARNESS
19A	SHIELD	TO MAIN HARNESS
20A	W	TO MAIN HARNESS
21A	SHIELD	TO MAIN HARNESS
22A	–	TO MAIN HARNESS
23A	W	TO MAIN HARNESS
24A	B	TO MAIN HARNESS

25A	SHIELD	TO MAIN HARNESS
26A	B	TO MAIN HARNESS
27A	B	TO MAIN HARNESS
28A	SHIELD	TO MAIN HARNESS
29A	R	TO MAIN HARNESS
30A	B	TO MAIN HARNESS
31A	BR	TO MAIN HARNESS
32A	–	TO MAIN HARNESS
33A	W	TO MAIN HARNESS
34A	B	TO MAIN HARNESS
35A	SHIELD	TO MAIN HARNESS
36A	–	TO MAIN HARNESS
37A	LG	TO MAIN HARNESS
38A	V	TO MAIN HARNESS
39A	SB	TO MAIN HARNESS
40A	BR	TO MAIN HARNESS
41A	Y	TO MAIN HARNESS
42A	–	TO MAIN HARNESS
43A	–	TO MAIN HARNESS
44A	V	TO MAIN HARNESS
45A	G	TO MAIN HARNESS
46A	V	TO MAIN HARNESS
47A	L	TO MAIN HARNESS
48A	SB	TO MAIN HARNESS
49A	G	TO MAIN HARNESS
50A	W	TO MAIN HARNESS
51A	–	TO MAIN HARNESS
52A	–	TO MAIN HARNESS
53A	R	TO MAIN HARNESS
54A	SB	TO MAIN HARNESS
55A	LG	TO MAIN HARNESS
56A	Y	TO MAIN HARNESS
57A	SB	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
57A	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
58A	BR	TO MAIN HARNESS
59A	BR	TO MAIN HARNESS
60A	L	TO MAIN HARNESS
61A	Y	TO MAIN HARNESS
62A	–	TO MAIN HARNESS
63A	P	TO MAIN HARNESS
64A	R	TO MAIN HARNESS
65A	SB	TO MAIN HARNESS
66A	L	TO MAIN HARNESS
67A	LG	TO MAIN HARNESS
68A	P	TO MAIN HARNESS
69A	W	TO MAIN HARNESS
70A	G	TO MAIN HARNESS
71A	BR	TO MAIN HARNESS
72A	–	TO MAIN HARNESS
73A	Y	TO MAIN HARNESS
74A	P	TO MAIN HARNESS
75A	V	TO MAIN HARNESS

76A	R	TO MAIN HARNESS
77A	Y	TO MAIN HARNESS
78A	LG	TO MAIN HARNESS
79A	BR	TO MAIN HARNESS
80A	Y	TO MAIN HARNESS
81A	L	TO MAIN HARNESS
82A	BG	TO MAIN HARNESS
83A	Y	TO MAIN HARNESS
84A	LG	TO MAIN HARNESS
85A	SHIELD	TO MAIN HARNESS
86A	LG	TO MAIN HARNESS
87A	SB	TO MAIN HARNESS
88A	BG	TO MAIN HARNESS
89A	L	TO MAIN HARNESS
90A	P	TO MAIN HARNESS
91A	L	TO MAIN HARNESS
92A	LG	TO MAIN HARNESS
93A	B	TO MAIN HARNESS
94A	–	TO MAIN HARNESS
95A	–	TO MAIN HARNESS
96A	–	TO MAIN HARNESS
97A	BR	TO MAIN HARNESS
98A	L	TO MAIN HARNESS
99A	–	TO MAIN HARNESS
100A	–	TO MAIN HARNESS

Connector No.	B73
Connector Name	SUBWOOFER
Connector Type	RS04FGY-PR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	BASS BOX2+
2	W	BASS BOX1+
3	G	BASS BOX2-
4	R	BASS BOX1-

Connector No.	B75
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	TO BODY HARNESS RH
2	SB	TO BODY HARNESS RH
3	L	TO BODY HARNESS RH
4	SB	TO BODY HARNESS RH
5	BR	TO BODY HARNESS RH
6	SHIELD	TO BODY HARNESS RH
7	W	TO BODY HARNESS RH
8	B	TO BODY HARNESS RH
9	V	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	B	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	R	TO BODY HARNESS RH
14	SHIELD	TO BODY HARNESS RH
15	–	TO BODY HARNESS RH
16	–	TO BODY HARNESS RH

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 HARNESS
2	–	TO BODY NO. 3 HARNESS
3	–	TO BODY NO. 3 HARNESS
4	G	TO BODY NO. 3 HARNESS
5	W	TO BODY NO. 3 HARNESS
6	R	TO BODY NO. 3 HARNESS
7	W	TO BODY NO. 3 HARNESS
8	B	TO BODY NO. 3 HARNESS
9	W	TO BODY NO. 3 HARNESS
10	G	TO BODY NO. 3 HARNESS
11	–	TO BODY NO. 3 HARNESS
12	L	TO BODY NO. 3 HARNESS
13	Y	TO BODY NO. 3 HARNESS
14	–	TO BODY NO. 3 HARNESS
15	G	TO BODY NO. 3 HARNESS
16	–	TO BODY NO. 3 HARNESS
17	B	TO BODY NO. 3 HARNESS
18	B	TO BODY NO. 3 HARNESS
19	SHIELD	TO BODY NO. 3 HARNESS
20	R	TO BODY NO. 3 HARNESS
21	B	TO BODY NO. 3 HARNESS
22	W	TO BODY NO. 3 HARNESS
23	SHIELD	TO BODY NO. 3 HARNESS
24	W	TO BODY NO. 3 HARNESS
25	B	TO BODY NO. 3 HARNESS
26	SHIELD	TO BODY NO. 3 HARNESS
27	B	TO BODY NO. 3 HARNESS
28	B	TO BODY NO. 3 HARNESS
29	SHIELD	TO BODY NO. 3 HARNESS
30	LG	TO BODY NO. 3 HARNESS
31	W	TO BODY NO. 3 HARNESS
32	–	TO BODY NO. 3 HARNESS

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	W	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	R	TO MAIN HARNESS
5	V	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO MAIN HARNESS
10	G	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	P	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	L	TO MAIN HARNESS
18	P	TO MAIN HARNESS
19	LG	TO MAIN HARNESS
20	BR	TO MAIN HARNESS
21	LG	TO MAIN HARNESS
22	LG	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	V	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
24	BR	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
25	SB	TO MAIN HARNESS
26	LG	TO MAIN HARNESS
27	Y	TO MAIN HARNESS
28	Y	TO MAIN HARNESS
29	SB	TO MAIN HARNESS
30	LG	TO MAIN HARNESS
31	G	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B107
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	–	TO MAIN HARNESS
2	–	TO MAIN HARNESS
3	–	TO MAIN HARNESS
4	–	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	V	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	R	TO MAIN HARNESS
10	SHIELD	TO MAIN HARNESS
11	B	TO MAIN HARNESS
12	W	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	–	TO MAIN HARNESS
18	–	TO MAIN HARNESS
19	V	TO MAIN HARNESS
20	Y	TO MAIN HARNESS
21	SHIELD	TO MAIN HARNESS
22	B	TO MAIN HARNESS
23	R	TO MAIN HARNESS
24	W	TO MAIN HARNESS

Connector No.	B111
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	LG	TO MAIN HARNESS
5	Y	TO MAIN HARNESS
6	P	TO MAIN HARNESS
7	R	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	W	TO MAIN HARNESS
10	G	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	W	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
13	G	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
14	P	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
14	W	TO MAIN HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
15	G	TO MAIN HARNESS
16	R	TO MAIN HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B120
Connector Name	BOSE SPEAKER AMP. (WITH SURROUND SOUND SYSTEM)
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	W	GUIDE IN-
5	W	STEREO LH -IN
6	W	STEREO RH -IN
7	W	RR SP LCH-
8	W	RR SP RCH-
9	W	CEN SP-
10	W	LFE IN-
11	–	–
12	–	–
13	–	–
14	B	M-CAN1 L
15	B	M-CAN2 L (WITHOUT REAR ENTERTAINMENT SYSTEM)
15	LG	M-CAN2 L (WITH REAR ENTERTAINMENT SYSTEM)
16	W	ACC
17	–	–
18	–	–
19	–	–
20	–	–
21	–	–
22	–	–
23	–	–
24	B	GUIDE IN+
25	B	STEREO LH +IN
26	B	STEREO RH +IN
27	B	RR SP LCH+
28	B	RR SP RCH+
29	B	CEN SP+
30	B	LFE IN+
31	–	–
32	–	–
33	–	–
34	W	M-CAN1 H
35	W	M-CAN2 H (WITHOUT REAR ENTERTAINMENT SYSTEM)
35	B/Y	M-CAN2 H (WITH REAR ENTERTAINMENT SYSTEM)
36	–	–
37	–	–
38	–	–
39	B	SHIELD
40	–	–

Connector No.	B121
Connector Name	BOSE SPEAKER AMP. (WITH SURROUND SOUND SYSTEM)
Connector Type	SGA12FBR-SJA2
Connector Color	BROWN

H.S.

54	53	52	51	50
49	48	47	46	45	44	43	42	41

Terminal No.	Color of Wire	Signal Name
41	G	FR DR SP RH+
42	W	FR DR SP RH-
43	R	BASS BOX2+
44	G	BASS BOX2-
45	G	FR DR SP LH+
46	R	FR DR SP LH-
47	B	GND
48	B	BASS BOX1-
49	W	FR INST TWDR RH-
50	LG	+B
51	Y	+B
52	B	GND
53	W	BASS BOX1+
54	B	FR INST TWDR RH+

Connector No.	B122
Connector Name	BOSE SPEAKER AMP. (WITH SURROUND SOUND SYSTEM)
Connector Type	SCA19FBR-SGA4
Connector Color	BROWN

H.S.

77	76	75	74	73		72	71	70	69	68
67	66	65	64	63	62	61	60	59	58	57	56	55

Terminal No.	Color of Wire	Signal Name
55	–	–
56	P	RR DR SP LH+
57	P	FRONT CENTER SP+
58	R	FRONT CENTER SP-
59	–	–
60	–	–
61	–	–
62	W	RR SUR SP LH+
63	W	RR SUR SP RH+
64	G	RR DR SP RH+
65	–	–
66	–	–
67	–	–
68	–	–
69	R	RR DR SP LH-
70	G	FR INST TWDR LH-
71	R	FR INST TWDR LH+
72	–	–
73	G	RR SUR SP LH-
74	G	RR SUR SP RH-
75	W	RR DR SP RH-
76	–	–
77	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B136
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	W	TO MAIN HARNESS
3	BR	TO MAIN HARNESS
4	G	TO MAIN HARNESS
5	BG	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	W	TO MAIN HARNESS
8	W	TO MAIN HARNESS
9	B	TO MAIN HARNESS
10	W	TO MAIN HARNESS
11	SHIELD	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	SHIELD	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	W	TO MAIN HARNESS
17	SHIELD	TO MAIN HARNESS
18	W	TO MAIN HARNESS
19	LG	TO MAIN HARNESS - (WITHOUT SURROUND SOUND SYSTEM)
19	B	TO MAIN HARNESS - (WITH SURROUND SOUND SYSTEM)
20	SB	TO MAIN HARNESS - (WITHOUT SURROUND SOUND SYSTEM)
20	W	TO MAIN HARNESS - (WITH SURROUND SOUND SYSTEM)
21	B	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	SHIELD	TO MAIN HARNESS
24	B	TO MAIN HARNESS
25	W	TO MAIN HARNESS
26	SHIELD	TO MAIN HARNESS
27	B	TO MAIN HARNESS
28	W	TO MAIN HARNESS
29	SHIELD	TO MAIN HARNESS
30	B	TO MAIN HARNESS
31	W	TO MAIN HARNESS
32	L	TO MAIN HARNESS
33	Y	TO MAIN HARNESS
34	–	TO MAIN HARNESS
35	–	TO MAIN HARNESS
36	–	TO MAIN HARNESS
37	BR	TO MAIN HARNESS
38	–	TO MAIN HARNESS
39	–	TO MAIN HARNESS
40	–	TO MAIN HARNESS

Connector No.	B137
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO FRONT SEAT RH HARNESS
2	–	TO FRONT SEAT RH HARNESS
3	SB	TO FRONT SEAT RH HARNESS
4	LG	TO FRONT SEAT RH HARNESS
5	SHIELD	TO FRONT SEAT RH HARNESS
6	SB	TO FRONT SEAT RH HARNESS
7	–	TO FRONT SEAT RH HARNESS
8	SB	TO FRONT SEAT RH HARNESS
9	O	TO FRONT SEAT RH HARNESS
10	SHIELD	TO FRONT SEAT RH HARNESS
11	R	TO FRONT SEAT RH HARNESS
12	B	TO FRONT SEAT RH HARNESS
13	B	TO FRONT SEAT RH HARNESS
14	–	TO FRONT SEAT RH HARNESS
15	B/Y	TO FRONT SEAT RH HARNESS - (WITH SURROUND SOUND SYSTEM)
15	SB	TO FRONT SEAT RH HARNESS - (WITHOUT SURROUND SOUND SYSTEM)
16	L/G	TO FRONT SEAT RH HARNESS
17	–	TO FRONT SEAT RH HARNESS
18	L	TO FRONT SEAT RH HARNESS
19	BR	TO FRONT SEAT RH HARNESS
20	–	TO FRONT SEAT RH HARNESS
21	Y	TO FRONT SEAT RH HARNESS
22	SHIELD	TO FRONT SEAT RH HARNESS
23	G	TO FRONT SEAT RH HARNESS
24	W	TO FRONT SEAT RH HARNESS

Connector No.	B139
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR RH HARNESS
2	–	TO REAR DOOR RH HARNESS
3	B	TO REAR DOOR RH HARNESS
4	G	TO REAR DOOR RH HARNESS
5	–	TO REAR DOOR RH HARNESS
6	BR	TO REAR DOOR RH HARNESS
7	Y	TO REAR DOOR RH HARNESS
8	Y	TO REAR DOOR RH HARNESS
9	–	TO REAR DOOR RH HARNESS
10	–	TO REAR DOOR RH HARNESS
11	SB	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
11	W	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
12	LG	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
12	G	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO BODY HARNESS
2	W	TO BODY HARNESS
3	B	TO BODY HARNESS
4	L	TO BODY HARNESS
5	BR	TO BODY HARNESS
6	Y	TO BODY HARNESS
7	LG	TO BODY HARNESS
8	–	TO BODY HARNESS
9	G	TO BODY HARNESS
10	W	TO BODY HARNESS
11	P	TO BODY HARNESS
12	R	TO BODY HARNESS
13	G	TO BODY HARNESS
14	R	TO BODY HARNESS
15	B	TO BODY HARNESS
16	W	TO BODY HARNESS

Connector No.	B144
Connector Name	JOINT CONNECTOR-B11
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	–	–
2	B	SHIELD
3	SHIELD	SHIELD
4	SHIELD	SHIELD

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B145
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	TO BODY HARNESS
2	SB	TO BODY HARNESS
3	SB	TO BODY HARNESS
4	L	TO BODY HARNESS
5	BR	TO BODY HARNESS
6	SHIELD	TO BODY HARNESS
7	Y	TO BODY HARNESS
8	O	TO BODY HARNESS
9	V	TO BODY HARNESS
10	B	TO BODY HARNESS
11	W	TO BODY HARNESS
12	G	TO BODY HARNESS
13	R	TO BODY HARNESS
14	SHIELD	TO BODY HARNESS
15	–	TO BODY HARNESS
16	–	TO BODY HARNESS

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	W	TO BODY HARNESS
2	–	TO BODY HARNESS
3	P	TO BODY HARNESS
4	LG	TO BODY HARNESS
5	–	TO BODY HARNESS
6	G	TO BODY HARNESS
7	–	TO BODY HARNESS
8	V	TO BODY HARNESS
9	Y	TO BODY HARNESS
10	P	TO BODY HARNESS
11	G	TO BODY HARNESS
12	W	TO BODY HARNESS
13	G	TO BODY HARNESS
14	SB	TO BODY HARNESS
15	LG	TO BODY HARNESS
16	R	TO BODY HARNESS
17	BG	TO BODY HARNESS
18	W	TO BODY HARNESS
19	Y	TO BODY HARNESS
20	GR	TO BODY HARNESS
21	G	TO BODY HARNESS
22	LG	TO BODY HARNESS
23	B	TO BODY HARNESS
24	R	TO BODY HARNESS

Connector No.	B153
Connector Name	REAR SIDE SPEAKER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	W	RR SUR SP RH+
2	G	RR SUR SP RH-

Connector No.	B202
Connector Name	HEADREST DISPLAY UNIT (DRIVER SEAT)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	REAR1 HP LH-
2	G	REAR1 HP RH-
3	LG	REAR1 HP SHIELD
4	–	–
5	Y	REAR1 COMP+
6	–	–
7	W	AUX REQ OUT
8	G	ACC DET IN
9	–	–
10	LG	M-CAN 1L
11	P	M-CAN 1H
12	G	LOCATION DET LH (LH ONLY)
13	BR	ILL
14	–	–
15	W	BAT
16	W	BAT
17	B	REAR1 HP LH-
18	R	REAR1 HP RH-
19	V	AV GND
20	P	REAR1 COMP SHIELD
21	G	REAR1 COMP-
22	–	–
23	Y	CONT GND
24	SB	CON CK B
25	–	–
26	R	M-CAN 2L
27	LG	M-CAN 2H
28	–	–
29	GR	CON CK A
30	–	–
31	G	GND
32	G	GND

Connector No.	B219
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT LH HARNESS
2	G	TO FRONT SEAT LH HARNESS
3	LG	TO FRONT SEAT LH HARNESS
4	–	TO FRONT SEAT LH HARNESS
5	Y	TO FRONT SEAT LH HARNESS
6	–	TO FRONT SEAT LH HARNESS
7	W	TO FRONT SEAT LH HARNESS
8	G	TO FRONT SEAT LH HARNESS
9	–	TO FRONT SEAT LH HARNESS
10	LG	TO FRONT SEAT LH HARNESS
11	P	TO FRONT SEAT LH HARNESS
12	G	TO FRONT SEAT LH HARNESS
13	BR	TO FRONT SEAT LH HARNESS
14	–	TO FRONT SEAT LH HARNESS
15	W	TO FRONT SEAT LH HARNESS
16	W	TO FRONT SEAT LH HARNESS
17	B	TO FRONT SEAT LH HARNESS
18	R	TO FRONT SEAT LH HARNESS
19	V	TO FRONT SEAT LH HARNESS
20	P	TO FRONT SEAT LH HARNESS
21	G	TO FRONT SEAT LH HARNESS
22	–	TO FRONT SEAT LH HARNESS
23	Y	TO FRONT SEAT LH HARNESS
24	SB	TO FRONT SEAT LH HARNESS
25	–	TO FRONT SEAT LH HARNESS
26	R	TO FRONT SEAT LH HARNESS
27	LG	TO FRONT SEAT LH HARNESS
28	–	TO FRONT SEAT LH HARNESS
29	GR	TO FRONT SEAT LH HARNESS
30	–	TO FRONT SEAT LH HARNESS
31	G	TO FRONT SEAT LH HARNESS
32	G	TO FRONT SEAT LH HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B222
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT LH HARNESS
2	G	TO FRONT SEAT LH HARNESS
3	LG	TO FRONT SEAT LH HARNESS
4	–	TO FRONT SEAT LH HARNESS
5	Y	TO FRONT SEAT LH HARNESS
6	–	TO FRONT SEAT LH HARNESS
7	W	TO FRONT SEAT LH HARNESS
8	G	TO FRONT SEAT LH HARNESS
9	–	TO FRONT SEAT LH HARNESS
10	LG	TO FRONT SEAT LH HARNESS
11	P	TO FRONT SEAT LH HARNESS
12	G	TO FRONT SEAT LH HARNESS
13	BR	TO FRONT SEAT LH HARNESS
14	–	TO FRONT SEAT LH HARNESS
15	W	TO FRONT SEAT LH HARNESS
16	W	TO FRONT SEAT LH HARNESS
17	B	TO FRONT SEAT LH HARNESS
18	R	TO FRONT SEAT LH HARNESS
19	V	TO FRONT SEAT LH HARNESS
20	P	TO FRONT SEAT LH HARNESS
21	G	TO FRONT SEAT LH HARNESS
22	–	TO FRONT SEAT LH HARNESS
23	Y	TO FRONT SEAT LH HARNESS
24	SB	TO FRONT SEAT LH HARNESS
25	–	TO FRONT SEAT LH HARNESS
26	R	TO FRONT SEAT LH HARNESS
27	LG	TO FRONT SEAT LH HARNESS
28	–	TO FRONT SEAT LH HARNESS
29	GR	TO FRONT SEAT LH HARNESS
30	–	TO FRONT SEAT LH HARNESS
31	G	TO FRONT SEAT LH HARNESS
32	G	TO FRONT SEAT LH HARNESS

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	W	TO FRONT SEAT RH HARNESS
2	–	TO FRONT SEAT RH HARNESS
3	P	TO FRONT SEAT RH HARNESS
4	LG	TO FRONT SEAT RH HARNESS
5	SHIELD	TO FRONT SEAT RH HARNESS
6	G	TO FRONT SEAT RH HARNESS
7	–	TO FRONT SEAT RH HARNESS
8	V	TO FRONT SEAT RH HARNESS
9	Y	TO FRONT SEAT RH HARNESS
10	P	TO FRONT SEAT RH HARNESS
11	G	TO FRONT SEAT RH HARNESS
12	W	TO FRONT SEAT RH HARNESS
13	G	TO FRONT SEAT RH HARNESS
14	SB	TO FRONT SEAT RH HARNESS
15	LG	TO FRONT SEAT RH HARNESS
16	R	TO FRONT SEAT RH HARNESS
17	BR	TO FRONT SEAT RH HARNESS
18	W	TO FRONT SEAT RH HARNESS
19	Y	TO FRONT SEAT RH HARNESS
20	GR	TO FRONT SEAT RH HARNESS
21	G	TO FRONT SEAT RH HARNESS
22	LG	TO FRONT SEAT RH HARNESS
23	B	TO FRONT SEAT RH HARNESS
24	R	TO FRONT SEAT RH HARNESS

Connector No.	B302
Connector Name	HEADREST DISPLAY UNIT (PASSENGER SEAT)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	REAR1 HP LH+
2	G	REAR1 HP RH+
3	LG	REAR1 HP SHIELD
4	–	–
5	Y	REAR1 COMP+
6	–	–
7	W	AUX REQ OUT
8	G	ACC DET IN
9	–	–
10	LG	M-CAN 1L
11	P	M-CAN 1H
12	–	–
13	BR	ILL
14	–	–
15	W	BAT
16	W	BAT
17	B	REAR1 HP LH-
18	R	REAR1 HP RH-
19	V	AV GND
20	P	REAR1 COMP SHIELD
21	G	REAR1 COMP-
22	–	–
23	Y	CONT GND
24	SB	CON CK B
25	–	–
26	R	M-CAN 2L
27	LG	M-CAN 2H
28	G	LOCATION DET RH (RH ONLY)
29	GR	CON CK A
30	–	–
31	G	GND
32	G	GND

Connector No.	B316
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT RH HARNESS
2	G	TO FRONT SEAT RH HARNESS
3	LG	TO FRONT SEAT RH HARNESS
4	–	TO FRONT SEAT RH HARNESS
5	Y	TO FRONT SEAT RH HARNESS
6	–	TO FRONT SEAT RH HARNESS
7	W	TO FRONT SEAT RH HARNESS
8	G	TO FRONT SEAT RH HARNESS
9	–	TO FRONT SEAT RH HARNESS
10	LG	TO FRONT SEAT RH HARNESS
11	P	TO FRONT SEAT RH HARNESS
12	–	TO FRONT SEAT RH HARNESS
13	BR	TO FRONT SEAT RH HARNESS
14	–	TO FRONT SEAT RH HARNESS
15	W	TO FRONT SEAT RH HARNESS
16	W	TO FRONT SEAT RH HARNESS
17	B	TO FRONT SEAT RH HARNESS
18	R	TO FRONT SEAT RH HARNESS
19	V	TO FRONT SEAT RH HARNESS
20	P	TO FRONT SEAT RH HARNESS
21	G	TO FRONT SEAT RH HARNESS
22	–	TO FRONT SEAT RH HARNESS
23	Y	TO FRONT SEAT RH HARNESS
24	SB	TO FRONT SEAT RH HARNESS
25	–	TO FRONT SEAT RH HARNESS
26	R	TO FRONT SEAT RH HARNESS
27	LG	TO FRONT SEAT RH HARNESS
28	G	TO FRONT SEAT RH HARNESS
29	GR	TO FRONT SEAT RH HARNESS
30	–	TO FRONT SEAT RH HARNESS
31	G	TO FRONT SEAT RH HARNESS
32	G	TO FRONT SEAT RH HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B317
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT SEAT RH HARNESS
2	G	TO FRONT SEAT RH HARNESS
3	LG	TO FRONT SEAT RH HARNESS
4	–	TO FRONT SEAT RH HARNESS
5	Y	TO FRONT SEAT RH HARNESS
6	–	TO FRONT SEAT RH HARNESS
7	W	TO FRONT SEAT RH HARNESS
8	G	TO FRONT SEAT RH HARNESS
9	–	TO FRONT SEAT RH HARNESS
10	LG	TO FRONT SEAT RH HARNESS
11	P	TO FRONT SEAT RH HARNESS
12	–	TO FRONT SEAT RH HARNESS
13	BR	TO FRONT SEAT RH HARNESS
14	–	TO FRONT SEAT RH HARNESS
15	W	TO FRONT SEAT RH HARNESS
16	W	TO FRONT SEAT RH HARNESS
17	B	TO FRONT SEAT RH HARNESS
18	R	TO FRONT SEAT RH HARNESS
19	V	TO FRONT SEAT RH HARNESS
20	P	TO FRONT SEAT RH HARNESS
21	G	TO FRONT SEAT RH HARNESS
22	–	TO FRONT SEAT RH HARNESS
23	Y	TO FRONT SEAT RH HARNESS
24	SB	TO FRONT SEAT RH HARNESS
25	–	TO FRONT SEAT RH HARNESS
26	R	TO FRONT SEAT RH HARNESS
27	LG	TO FRONT SEAT RH HARNESS
28	G	TO FRONT SEAT RH HARNESS
29	GR	TO FRONT SEAT RH HARNESS
30	–	TO FRONT SEAT RH HARNESS
31	G	TO FRONT SEAT RH HARNESS
32	G	TO FRONT SEAT RH HARNESS

Connector No.	B400
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS
2	–	TO BODY HARNESS
3	–	TO BODY HARNESS
4	G	TO BODY HARNESS
5	W	TO BODY HARNESS
6	R	TO BODY HARNESS
7	W	TO BODY HARNESS
8	B	TO BODY HARNESS
9	W	TO BODY HARNESS
10	G	TO BODY HARNESS
11	–	TO BODY HARNESS
12	L	TO BODY HARNESS
13	Y	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	B	TO BODY HARNESS
17	B	TO BODY HARNESS
18	B	TO BODY HARNESS
19	SHIELD	TO BODY HARNESS
20	R	TO BODY HARNESS
21	B	TO BODY HARNESS
22	W	TO BODY HARNESS
23	SHIELD	TO BODY HARNESS
24	W	TO BODY HARNESS
25	B	TO BODY HARNESS
26	SHIELD	TO BODY HARNESS
27	B	TO BODY HARNESS
28	B	TO BODY HARNESS
29	SHIELD	TO BODY HARNESS
30	LG	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	RH12MB
Connector Color	BLACK

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 SUB HARNESS
2	B	TO BODY NO. 3 SUB HARNESS
3	W	TO BODY NO. 3 SUB HARNESS
4	B	TO BODY NO. 3 SUB HARNESS
5	B	TO BODY NO. 3 SUB HARNESS
6	–	TO BODY NO. 3 SUB HARNESS
7	–	TO BODY NO. 3 SUB HARNESS
8	B	TO BODY NO. 3 SUB HARNESS
9	B	TO BODY NO. 3 SUB HARNESS
10	W	TO BODY NO. 3 SUB HARNESS
11	B	TO BODY NO. 3 SUB HARNESS
12	R	TO BODY NO. 3 SUB HARNESS

Connector No.	B452
Connector Name	WIRE TO WIRE
Connector Type	RH12FB
Connector Color	BLACK

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 HARNESS
2	P	TO BODY NO. 3 HARNESS
3	G	TO BODY NO. 3 HARNESS
4	L	TO BODY NO. 3 HARNESS
5	Y	TO BODY NO. 3 HARNESS
6	–	TO BODY NO. 3 HARNESS
7	–	TO BODY NO. 3 HARNESS
8	L	TO BODY NO. 3 HARNESS
9	W	TO BODY NO. 3 HARNESS
10	P	TO BODY NO. 3 HARNESS
11	G	TO BODY NO. 3 HARNESS

12	R	TO BODY NO. 3 HARNESS

Connector No.	B455
Connector Name	REAR SONAR SENSOR LH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

3	2	1

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	G	ROL SENSOR SIGNAL
3	–	–

Connector No.	B456
Connector Name	REAR SONAR SENSOR RH OUTER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

3	2	1

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	W	ROR SENSOR SIGNAL
3	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	B457
Connector Name	REAR SONAR SENSOR LH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	Y	RIL SENSOR SIGNAL
3	–	–

Connector No.	B458
Connector Name	REAR SONAR SENSOR RH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	G	RIR SENSOR SIGNAL
3	–	–

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

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	RR SENSOR GND
2	G	RIR SENSOR SIGNAL
3	–	–

1	B	TO MAIN HARNESS
2	Y	TO MAIN HARNESS
3	G/B	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	Y	TO MAIN HARNESS
8	W	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	V	TO MAIN HARNESS
11	BR	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	L	TO MAIN HARNESS
14	SHIELD	TO MAIN HARNESS
15	B	TO MAIN HARNESS
16	W	TO MAIN HARNESS

Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	G/B	TO MAIN HARNESS
4	SB	TO MAIN HARNESS
5	LG	TO MAIN HARNESS
6	L	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
9	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
10	BR	TO MAIN HARNESS
11	Y	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	Y	TO MAIN HARNESS
14	LG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
14	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	BR	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
15	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)

16	LG	TO MAIN HARNESS
17	L	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	BG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	BR	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	L	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	Y	TO MAIN HARNESS
20	LG	TO MAIN HARNESS
21	LG	TO MAIN HARNESS
22	Y	TO MAIN HARNESS
23	LG	TO MAIN HARNESS
24	SB	TO MAIN HARNESS
25	BR	TO MAIN HARNESS
26	B	TO MAIN HARNESS
27	–	TO MAIN HARNESS
28	G	TO MAIN HARNESS
29	SHIELD	TO MAIN HARNESS
30	R	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	W	TO MAIN HARNESS
33	V	TO MAIN HARNESS
34	Y	TO MAIN HARNESS
35	BG	TO MAIN HARNESS
36	SB	TO MAIN HARNESS
37	V	TO MAIN HARNESS
38	LG	TO MAIN HARNESS
39	Y	TO MAIN HARNESS
40	BR	TO MAIN HARNESS

Connector No.	D6
Connector Name	DOOR MIRROR LH (WITH AROUND VIEW MONITOR)
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	Y	BATTERY

8	LG	CLOSE
9	Y	OPEN
10	BG	MIRROR MOTOR [LH COMMON (DOWN&RIGHT)]
11	L	MIRROR MOTOR [LH HORIZONTAL(LEFT)]
12	LG	MIRROR MOTOR [LH VERTICAL (UP)]
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	–	–
19	B	TURN -
20	SB	TURN +
21	BG	MIRROR SENSOR (LH VERTICAL)
22	V	MIRROR SENSOR (LH HORIZONTAL)
23	SB	POWER SUPPLY (SENSOR FOR 5V)
24	Y	GND (SENSOR GND)

Connector No.	D12
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS02FW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	FR DOOR LH+ OUT
2	W	FR DOOR LH- OUT

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	D20
Connector Name	DOOR MIRROR LH (SIDE CAMERA)
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	R	COMP OUT+
6	W	POWER
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	G	CAMERA CONTROL
17	SHIELD	COMP OUT-
18	B	GND
19	–	–
20	–	–
21	–	–
22	–	–
23	–	–
24	–	–

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	W	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	L	TO MAIN HARNESS
8	BR	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	BR	TO MAIN HARNESS
11	LG	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	W/B	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	LG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	L	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	BR	TO MAIN HARNESS
20	SB	TO MAIN HARNESS
21	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	G	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
22	Y	TO MAIN HARNESS
23	LG	TO MAIN HARNESS
24	BR	TO MAIN HARNESS
25	Y	TO MAIN HARNESS
26	LG	TO MAIN HARNESS
27	–	TO MAIN HARNESS
28	–	TO MAIN HARNESS
29	Y	TO MAIN HARNESS
30	LG	TO MAIN HARNESS
31	BR	TO MAIN HARNESS

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS
Connector Color	WHITE

H.S.

4	3		2	1
10	9	8	7	6	5

32	–	TO MAIN HARNESS

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	L	TO MAIN HARNESS
5	BR	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	LG	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	W	TO MAIN HARNESS

Connector No.	D112
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS02FW
Connector Color	WHITE

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR DOOR RH+ OUT
2	W	FR DOOR RH- OUT

Connector No.	D113
Connector Name	DOOR MIRROR RH (SIDE CAMERA)
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	R	COMP OUT+
6	W	POWER
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	G	CAMERA CONTROL
17	SHIELD	COMP OUT-
18	B	GND
19	–	–
20	–	–
21	–	–
22	–	–
23	–	–
24	–	–

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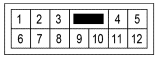
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

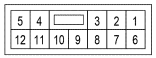
H.S.



Terminal No.	Color of Wire	Signal Name
1	BR	TO BODY HARNESS
2	L	TO BODY HARNESS
3	B	TO BODY HARNESS
4	SB	TO BODY HARNESS
5	–	TO BODY HARNESS
6	–	TO BODY HARNESS
7	–	TO BODY HARNESS
8	V	TO BODY HARNESS
9	R/W	TO BODY HARNESS
10	R/G	TO BODY HARNESS
11	Y	TO BODY HARNESS
12	LG	TO BODY HARNESS

Connector No.	D202
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	BG	TO REAR DOOR LH SUB HARNESS
2	B	TO REAR DOOR LH SUB HARNESS
3	–	TO REAR DOOR LH SUB HARNESS
4	V	TO REAR DOOR LH SUB HARNESS
5	P	TO REAR DOOR LH SUB HARNESS
6	W	TO REAR DOOR LH SUB HARNESS
7	SB	TO REAR DOOR LH SUB HARNESS
8	LG	TO REAR DOOR LH SUB HARNESS
9	Y	TO REAR DOOR LH SUB HARNESS
10	LG	TO REAR DOOR LH SUB HARNESS
11	Y	TO REAR DOOR LH SUB HARNESS
12	R	TO REAR DOOR LH SUB HARNESS

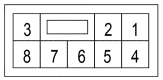
Connector No.	D207
Connector Name	REAR DOOR SPEAKER LH (WITH BOSE AUDIO SYSTEM)
Connector Type	NS02FBR-CS
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	RR DR SP LH+
2	Y	RR DR SP LH-

Connector No.	D208
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS
Connector Color	WHITE

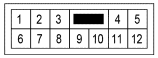
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR LH SUB HARNESS
2	–	TO REAR DOOR LH SUB HARNESS
3	–	TO REAR DOOR LH SUB HARNESS
4	–	TO REAR DOOR LH SUB HARNESS
5	–	TO REAR DOOR LH SUB HARNESS
6	–	TO REAR DOOR LH SUB HARNESS
7	LG	TO REAR DOOR LH SUB HARNESS
8	Y	TO REAR DOOR LH SUB HARNESS

Connector No.	D251
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	R	TO REAR DOOR LH HARNESS
2	B	TO REAR DOOR LH HARNESS
3	–	TO REAR DOOR LH HARNESS
4	Y	TO REAR DOOR LH HARNESS
5	O	TO REAR DOOR LH HARNESS
6	LG	TO REAR DOOR LH HARNESS
7	W	TO REAR DOOR LH HARNESS
8	L	TO REAR DOOR LH HARNESS
9	BR	TO REAR DOOR LH HARNESS
10	LG	TO REAR DOOR LH HARNESS
11	BR	TO REAR DOOR LH HARNESS
12	V	TO REAR DOOR LH HARNESS

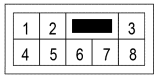
Connector No.	D252
Connector Name	REAR DOOR TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	RR DR SP LH+
2	BR	RR DR SP LH-

Connector No.	D257
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS
Connector Color	WHITE

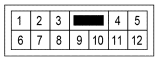
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR LH HARNESS
2	–	TO REAR DOOR LH HARNESS
3	–	TO REAR DOOR LH HARNESS
4	–	TO REAR DOOR LH HARNESS
5	–	TO REAR DOOR LH HARNESS
6	–	TO REAR DOOR LH HARNESS
7	LG	TO REAR DOOR LH HARNESS
8	BR	TO REAR DOOR LH HARNESS

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W/V	TO BODY HARNESS RH
2	–	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	V	TO BODY HARNESS RH
5	–	TO BODY HARNESS RH
6	Y	TO BODY HARNESS RH
7	LG	TO BODY HARNESS RH
8	SB	TO BODY HARNESS RH
9	R/W	TO BODY HARNESS RH
10	R/G	TO BODY HARNESS RH
11	G	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	D302
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	BG	TO REAR DOOR RH SUB HARNESS
2	B	TO REAR DOOR RH SUB HARNESS
3	–	TO REAR DOOR RH SUB HARNESS
4	SB	TO REAR DOOR RH SUB HARNESS
5	P	TO REAR DOOR RH SUB HARNESS
6	W	TO REAR DOOR RH SUB HARNESS
7	V	TO REAR DOOR RH SUB HARNESS
8	L	TO REAR DOOR RH SUB HARNESS
9	BR	TO REAR DOOR RH SUB HARNESS
10	W	TO REAR DOOR RH SUB HARNESS
11	G	TO REAR DOOR RH SUB HARNESS
12	R	TO REAR DOOR RH SUB HARNESS

Connector No.	D307
Connector Name	REAR DOOR SPEAKER RH (WITH BOSE AUDIO SYSTEM)
Connector Type	NS02FBR-CS
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	W	RR DR SP RH+
2	G	RR DR SP RH-

Connector No.	D308
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

3		2	1
8	7	6	5	4

Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR RH SUB HARNESS
2	–	TO REAR DOOR RH SUB HARNESS
3	–	TO REAR DOOR RH SUB HARNESS
4	–	TO REAR DOOR RH SUB HARNESS
5	–	TO REAR DOOR RH SUB HARNESS
6	–	TO REAR DOOR RH SUB HARNESS
7	W	TO REAR DOOR RH SUB HARNESS
8	G	TO REAR DOOR RH SUB HARNESS

Connector No.	D351
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	BG	TO REAR DOOR RH HARNESS
2	B	TO REAR DOOR RH HARNESS
3	–	TO REAR DOOR RH HARNESS
4	Y	TO REAR DOOR RH HARNESS
5	O	TO REAR DOOR RH HARNESS
6	LG	TO REAR DOOR RH HARNESS
7	W	TO REAR DOOR RH HARNESS
8	L	TO REAR DOOR RH HARNESS

2	G	RR DR SP RH-

9	BR	TO REAR DOOR RH HARNESS
10	LG	TO REAR DOOR RH HARNESS
11	BR	TO REAR DOOR RH HARNESS
12	V	TO REAR DOOR RH HARNESS

Connector No.	D352
Connector Name	REAR DOOR TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	LG	RR DR SP RH+
2	BR	RR DR SP RH-

Connector No.	D357
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS
Connector Color	WHITE

H.S.

1	2		3
4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR RH HARNESS
2	–	TO REAR DOOR RH HARNESS
3	–	TO REAR DOOR RH HARNESS
4	–	TO REAR DOOR RH HARNESS
5	–	TO REAR DOOR RH HARNESS
6	–	TO REAR DOOR RH HARNESS
7	LG	TO REAR DOOR RH HARNESS
8	BR	TO REAR DOOR RH HARNESS

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	BR	TO BODY HARNESS
2	BG	TO BODY HARNESS
3	V	TO BODY HARNESS
4	LG	TO BODY HARNESS
5	G	TO BODY HARNESS
6	SB	TO BODY HARNESS
7	L	TO BODY HARNESS
8	R	TO BODY HARNESS
9	G	TO BODY HARNESS
10	W	TO BODY HARNESS
11	P	TO BODY HARNESS
12	Y	TO BODY HARNESS
13	W	TO BODY HARNESS
14	B	TO BODY HARNESS
15	R	TO BODY HARNESS
16	SHIELD	TO BODY HARNESS
17	G	TO BODY HARNESS
18	–	TO BODY HARNESS
19	W	TO BODY HARNESS
20	W	TO BODY HARNESS
21	W	TO BODY HARNESS
22	LG	TO BODY HARNESS
23	Y	TO BODY HARNESS
24	LG	TO BODY HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	D511
Connector Name	REAR VIEW CAMERA (WITH NAVI)
Connector Type	TH08MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	COMP-
2	–	–
3	–	–
4	G	CONT
5	R	COMP+
6	–	–
7	B	GND
8	W	ON

Connector No.	E5
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	TO FRONT END MODULE HARNESS
2	SB	TO FRONT END MODULE HARNESS
3	BR	TO FRONT END MODULE HARNESS
4	B	TO FRONT END MODULE HARNESS
5	B	TO FRONT END MODULE HARNESS
6	P	TO FRONT END MODULE HARNESS
7	W/G	TO FRONT END MODULE HARNESS
8	G	TO FRONT END MODULE HARNESS

9	L	TO FRONT END MODULE HARNESS
10	G	TO FRONT END MODULE HARNESS
11	R	TO FRONT END MODULE HARNESS
12	P	TO FRONT END MODULE HARNESS
13	SHIELD	TO FRONT END MODULE HARNESS
14	SHIELD	TO FRONT END MODULE HARNESS
15	P	TO FRONT END MODULE HARNESS
16	B	TO FRONT END MODULE HARNESS

Connector No.	E22
Connector Name	ACCESSORY RELAY-2
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	ACC RELAY OUT
2	B	GROUND
3	R	BATT
5	P	ACC

Connector No.	E26
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	R	TO FRONT END MODULE HARNESS
2	W	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS

4	SHIELD	TO FRONT END MODULE HARNESS
5	B	TO FRONT END MODULE HARNESS
6	R	TO FRONT END MODULE HARNESS
7	W	TO FRONT END MODULE HARNESS
8	SHIELD	TO FRONT END MODULE HARNESS
9	Y	TO FRONT END MODULE HARNESS
10	BG	TO FRONT END MODULE HARNESS
11	G	TO FRONT END MODULE HARNESS
12	W	TO FRONT END MODULE HARNESS
13	R	TO FRONT END MODULE HARNESS
14	B	TO FRONT END MODULE HARNESS
15	G	TO FRONT END MODULE HARNESS
16	SHIELD	TO FRONT END MODULE HARNESS
17	W	TO FRONT END MODULE HARNESS
18	P	TO FRONT END MODULE HARNESS
19	W	TO FRONT END MODULE HARNESS
20	R	TO FRONT END MODULE HARNESS
21	W	TO FRONT END MODULE HARNESS
22	BR	TO FRONT END MODULE HARNESS
23	V	TO FRONT END MODULE HARNESS
24	SB	TO FRONT END MODULE HARNESS

Connector No.	E44
Connector Name	JOINT CONNECTOR-E01
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	SENSOR POWER SUPPLY
2	W	SENSOR POWER SUPPLY
3	W	SENSOR POWER SUPPLY

4	R	BATTERY
5	R	BATTERY
6	R	BATTERY
7	–	–
8	LG	BATTERY
9	LG	BATTERY
10	LG	BATTERY
11	LG	BATTERY
12	P	BATTERY
13	P	BATTERY
14	P	BATTERY
15	GR	GND
16	B	GND
17	B	GND
18	–	–
19	Y	BATTERY
20	Y	BATTERY
21	Y	BATTERY
22	Y	BATTERY
23	BG	EVAP CONTROL SYSTEM PRESSURE SENSOR
24	O	EVAP CONTROL SYSTEM PRESSURE SENSOR
25	–	–
26	G	GND
27	G	GND
28	G	GND
29	–	–
30	V	BATTERY
31	LG	BATTERY
32	V	BATTERY
33	V	BATTERY

Connector No.	E52
Connector Name	PARKING BRAKE SWITCH
Connector Type	P01FB-A
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	PKB

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	W	TO MAIN HARNESS
3G	P	TO MAIN HARNESS
4G	R	TO MAIN HARNESS
5G	P	TO MAIN HARNESS
6G	W	TO MAIN HARNESS
7G	SHIELD	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	LG	TO MAIN HARNESS
10G	P	TO MAIN HARNESS
11G	G	TO MAIN HARNESS
12G	P	TO MAIN HARNESS
13G	W	TO MAIN HARNESS
14G	BG	TO MAIN HARNESS
15G	W	TO MAIN HARNESS
16G	R	TO MAIN HARNESS
17G	B	TO MAIN HARNESS
18G	SHIELD	TO MAIN HARNESS
19G	W	TO MAIN HARNESS
20G	G	TO MAIN HARNESS
21G	P	TO MAIN HARNESS
22G	B	TO MAIN HARNESS
23G	SHIELD	TO MAIN HARNESS
24G	R	TO MAIN HARNESS
25G	W	TO MAIN HARNESS
26G	SHIELD	TO MAIN HARNESS

27G	W	TO MAIN HARNESS
28G	R	TO MAIN HARNESS
29G	B	TO MAIN HARNESS
30G	G	TO MAIN HARNESS
31G	L	TO MAIN HARNESS
32G	LG	TO MAIN HARNESS
33G	LG	TO MAIN HARNESS
34G	W	TO MAIN HARNESS
35G	P	TO MAIN HARNESS
36G	L	TO MAIN HARNESS
37G	BG	TO MAIN HARNESS
38G	W	TO MAIN HARNESS
39G	W	TO MAIN HARNESS
40G	Y	TO MAIN HARNESS
41G	BG	TO MAIN HARNESS
42G	P	TO MAIN HARNESS
43G	R	TO MAIN HARNESS
44G	W	TO MAIN HARNESS
45G	Y	TO MAIN HARNESS
46G	SB	TO MAIN HARNESS
47G	V	TO MAIN HARNESS
48G	BR	TO MAIN HARNESS
49G	W	TO MAIN HARNESS
50G	G	TO MAIN HARNESS
51G	B/W	TO MAIN HARNESS
52G	BR	TO MAIN HARNESS
53G	L	TO MAIN HARNESS
54G	P	TO MAIN HARNESS
55G	BR	TO MAIN HARNESS
56G	R	TO MAIN HARNESS
57G	P	TO MAIN HARNESS
58G	BG	TO MAIN HARNESS
59G	W	TO MAIN HARNESS
60G	B	TO MAIN HARNESS
61G	SHIELD	TO MAIN HARNESS
62G	P	TO MAIN HARNESS
63G	L	TO MAIN HARNESS
64G	R	TO MAIN HARNESS
65G	G/R	TO MAIN HARNESS
66G	R	TO MAIN HARNESS
67G	BG	TO MAIN HARNESS
68G	LG/R	TO MAIN HARNESS
69G	W	TO MAIN HARNESS
70G	G	TO MAIN HARNESS
71G	GR	TO MAIN HARNESS
72G	-	TO MAIN HARNESS
73G	-	TO MAIN HARNESS
74G	-	TO MAIN HARNESS
75G	G	TO MAIN HARNESS
76G	Y	TO MAIN HARNESS
77G	BR	TO MAIN HARNESS
78G	-	TO MAIN HARNESS
79G	P	TO MAIN HARNESS

80G	G	TO MAIN HARNESS
81G	R	TO MAIN HARNESS
82G	-	TO MAIN HARNESS
83G	-	TO MAIN HARNESS
84G	-	TO MAIN HARNESS
85G	-	TO MAIN HARNESS
86G	-	TO MAIN HARNESS
87G	-	TO MAIN HARNESS
88G	-	TO MAIN HARNESS
89G	R	TO MAIN HARNESS
90G	L	TO MAIN HARNESS
91G	L	TO MAIN HARNESS
92G	-	TO MAIN HARNESS
93G	-	TO MAIN HARNESS
94G	Y	TO MAIN HARNESS
95G	W	TO MAIN HARNESS
96G	-	TO MAIN HARNESS
97G	-	TO MAIN HARNESS
98G	-	TO MAIN HARNESS
99G	-	TO MAIN HARNESS
100G	SHIELD	TO MAIN HARNESS

Connector No.	E207
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	P	TO ENGINE ROOM HARNESS
2	P	TO ENGINE ROOM HARNESS
3	R	TO ENGINE ROOM HARNESS
4	B	TO ENGINE ROOM HARNESS
5	G	TO ENGINE ROOM HARNESS
6	-	TO ENGINE ROOM HARNESS
7	-	TO ENGINE ROOM HARNESS
8	G	TO ENGINE ROOM HARNESS
9	R	TO ENGINE ROOM HARNESS
10	G	TO ENGINE ROOM HARNESS
11	P	TO ENGINE ROOM HARNESS
12	R	TO ENGINE ROOM HARNESS
13	SHIELD	TO ENGINE ROOM HARNESS
14	SHIELD	TO ENGINE ROOM HARNESS
15	-	TO ENGINE ROOM HARNESS
16	-	TO ENGINE ROOM HARNESS

Connector No.	E209
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO ENGINE ROOM HARNESS
2	L	TO ENGINE ROOM HARNESS
3	B	TO ENGINE ROOM HARNESS
4	SHIELD	TO ENGINE ROOM HARNESS
5	B	TO ENGINE ROOM HARNESS
6	R	TO ENGINE ROOM HARNESS
7	W	TO ENGINE ROOM HARNESS
8	SHIELD	TO ENGINE ROOM HARNESS
9	Y	TO ENGINE ROOM HARNESS
10	L	TO ENGINE ROOM HARNESS
11	SB	TO ENGINE ROOM HARNESS
12	Y	TO ENGINE ROOM HARNESS
13	R	TO ENGINE ROOM HARNESS
14	B	TO ENGINE ROOM HARNESS
15	G	TO ENGINE ROOM HARNESS
16	SHIELD	TO ENGINE ROOM HARNESS
17	W	TO ENGINE ROOM HARNESS
18	L	TO ENGINE ROOM HARNESS
19	Y	TO ENGINE ROOM HARNESS
20	V	TO ENGINE ROOM HARNESS
21	G	TO ENGINE ROOM HARNESS
22	L	TO ENGINE ROOM HARNESS
23	G	TO ENGINE ROOM HARNESS
24	R	TO ENGINE ROOM HARNESS

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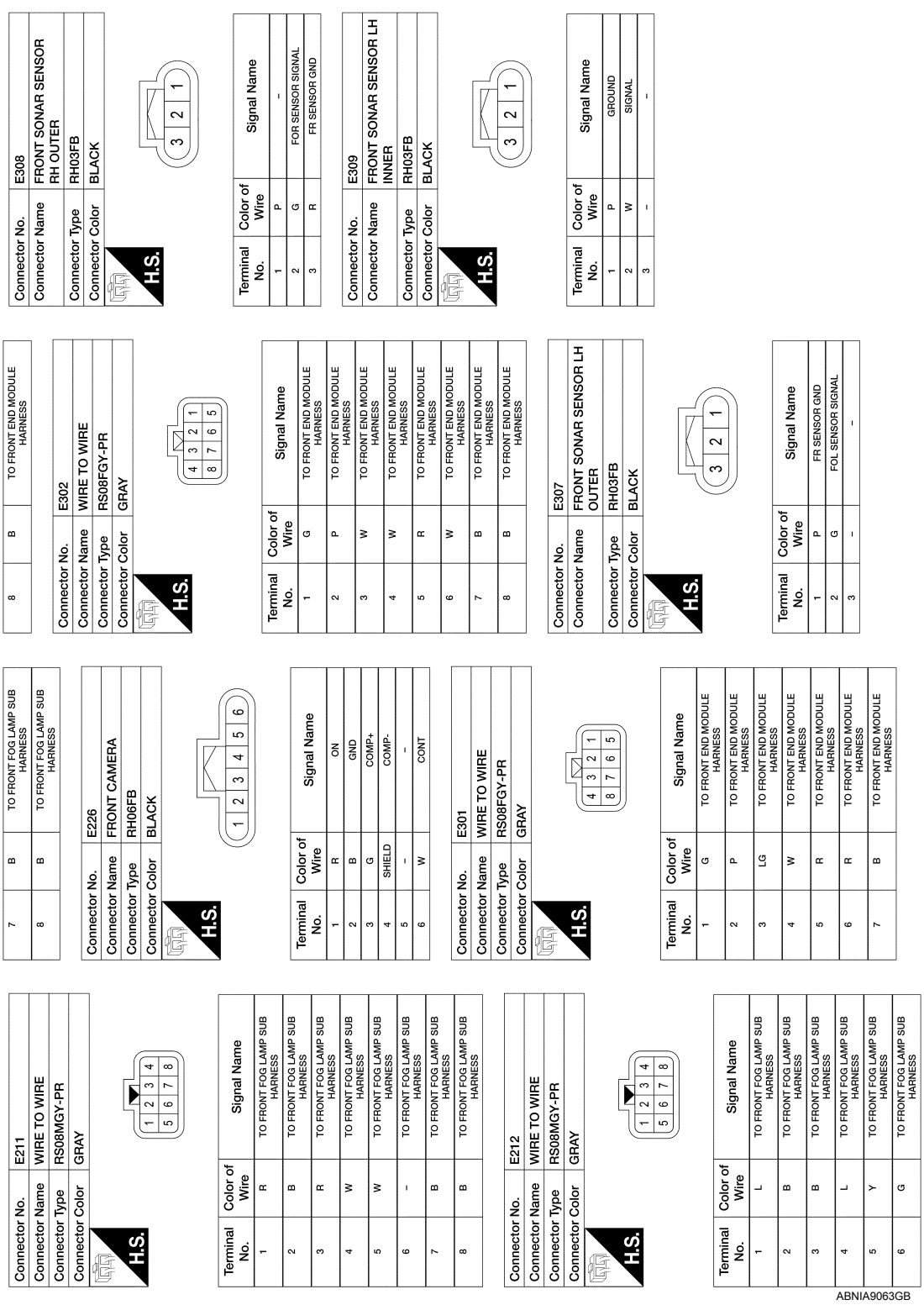
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM



BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	E310
Connector Name	FRONT SONAR SENSOR RH INNER
Connector Type	RH03FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	GROUND
2	W	SIGNAL
3	–	–

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	TO ROOM LAMP HARNESS
2	LG	TO ROOM LAMP HARNESS
3	R	TO ROOM LAMP HARNESS
4	–	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	LG	TO ROOM LAMP HARNESS
7	L	TO ROOM LAMP HARNESS
8	Y	TO ROOM LAMP HARNESS
9	W	TO ROOM LAMP HARNESS
10	LG	TO ROOM LAMP HARNESS
11	BR	TO ROOM LAMP HARNESS
12	R/G	TO ROOM LAMP HARNESS
13	W	TO ROOM LAMP HARNESS
14	B	TO ROOM LAMP HARNESS
15	SHIELD	TO ROOM LAMP HARNESS
16	R	TO ROOM LAMP HARNESS
17	W	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	G	TO ROOM LAMP HARNESS
20	BR	TO ROOM LAMP HARNESS
21	LG	TO ROOM LAMP HARNESS
22	Y	TO ROOM LAMP HARNESS
23	P	TO ROOM LAMP HARNESS
24	B	TO ROOM LAMP HARNESS

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	LG	IGNITION
3P	G	IGN ELEC RELAY OUT 2
4P	–	–
5P	P	IGNITION
6P	BG	REAR DEFOGGER RELAY OUT
7P	LG	IGNITION
8P	BG	IGNITION
9P	L	BATTERY
10P	BR	IGNITION
11P	–	–
12P	–	–
13P	W	BATTERY
14P	Y	BATTERY
15P	L	BATT
16P	W	BLOWER FAN RELAY OUT

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS RH

2	–	TO BODY HARNESS RH
3	–	TO BODY HARNESS RH
4	–	TO BODY HARNESS RH
5	–	TO BODY HARNESS RH
6	GR	TO BODY HARNESS RH
7	V	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	R	TO BODY HARNESS RH
10	SHIELD	TO BODY HARNESS RH
11	W	TO BODY HARNESS RH
12	B	TO BODY HARNESS RH
13	–	TO BODY HARNESS RH
14	–	TO BODY HARNESS RH
15	–	TO BODY HARNESS RH
16	–	TO BODY HARNESS RH
17	–	TO BODY HARNESS RH
18	–	TO BODY HARNESS RH
19	P	TO BODY HARNESS RH
20	G	TO BODY HARNESS RH
21	SHIELD	TO BODY HARNESS RH
22	B	TO BODY HARNESS RH
23	R	TO BODY HARNESS RH
24	W	TO BODY HARNESS RH

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Type	NS16FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	G	TO BODY HARNESS RH
4	L	TO BODY HARNESS RH
5	Y	TO BODY HARNESS RH
6	G	TO BODY HARNESS RH
7	W	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	W	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	R	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	W	TO BODY HARNESS RH

15	P	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
15	G	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
16	W	TO BODY HARNESS RH

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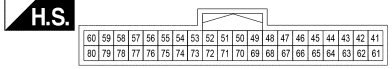
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	–	–
47	–	–
48	R	HIGH SIDE START SW LED
49	–	–
50	–	–
51	–	–
52	W	AUDIO DONGLE
53	–	–
54	W	PW LIN/COM
55	BR	R SENSOR K-LINE
56	–	–
57	–	–
58	–	–
59	P	CAN-L
60	L	CAN-H
61	BG	REAR DEFOGGER RELAY OUT
62	W	STARTER RELAY OUT
63	BG	I-KEY LINK SIGNAL
64	P	BUZZER OUT
65	P	DOOR HANDLE LAMP
66	W	BLOWER FAN RELAY OUT
67	G	IGN ELEC RELAY OUT 2
68	P	MR OUTPUT
69	G	AT DEVICE OUT
70	P	IGN USM OUT 1
71	R	DR REQUEST SW
72	G	AS REQUEST SW
73	–	–
74	–	–
75	BG	COMBI SW OUT 5
76	P	COMBI SW OUT 4
77	P	COMBI SW OUT 3
78	W	COMBI SW OUT 2
79	W	COMBI SW OUT 1
80	R	BACK DOOR OPEN SW

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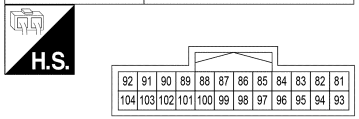
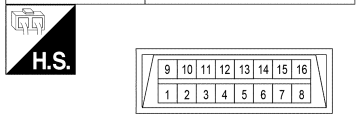
Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FGY-NH
Connector Color	GRAY



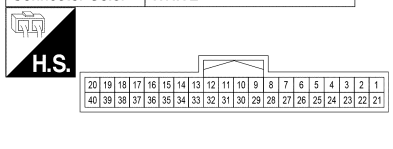
Terminal No.	Color of Wire	Signal Name
81	L	BAT REAR WIPER FUSE
82	W	RL DOOR SW
83	BG	BACK DOOR REQUEST SW
84	BR	R WIPER AUTOSTOP SW
85	–	–
86	R	TRAILER FLASHER RL
87	P	TRAILER FLASHER RR
88	–	–
89	LG	REVERSE LAMP OUT
90	–	–
91	–	–
92	R	RR FLASHER
93	R	RR DOOR SW
94	G	AS DOOR SW
95	V	REAR WIPER OUT
96	BG	DR DOOR SW
97	W	BACK DOOR SW
98	–	–
99	P	ROOM ANT 3 B
100	W	ROOM ANT 3 A
101	R	REAR BUMPER ANT B
102	G	REAR BUMPER ANT A
103	BG	RL FLASHER
104	–	–

Connector No.	M22
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW
Connector Color	WHITE



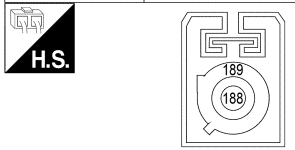
Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	LG	M-CAN-L
4	B	GROUND
5	B	GROUND
6	L	CAN-H
7	R	KLINE
8	LG	IGN SW
9	–	–
10	–	–
11	SB	M-CAN-H
12	P	CAN-L
13	L	CAN-H
14	P	CAN-L
15	–	–
16	BG	POWER

Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	B	GND1
2	B	GND2
3	P	STRG SW INPUT 1
4	BG	STRG SW INPUT 2
5	P	ACC
6	V	SECURITY
7	R	AIR BAG
8	G	AS BELT
9	Y	DR BUCKLE SW
10	–	–
11	BG	ALTERNATOR (CHARGE)
12	G	PKB
13	–	–
14	G	STRG SW OUTPUT 1
15	W	STRG SW OUTPUT 2
16	B	STRG SW OUTPUT GND
17	–	–
18	–	–
19	–	–
20	–	–
21	BG	IGN
22	W	BAT
23	B	ILLUMI CONT OUT
24	R	STRG SW GND
25	G	BRAKE OIL SW
26	R	FUEL SENSOR GND
27	W	FUEL SENSOR
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	BR	SPEED 2 P/R
34	BG	SPEED 8 P/R
35	–	–
36	–	–
37	–	–
38	P	CAN-L
39	L	CAN-H
40	–	–

Connector No.	M25
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA CODING C
Connector Color	PINK



Terminal No.	Color of Wire	Signal Name
188	B	GPS ANT
189	SHIELD	GPS SHIELD

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M30
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V
Connector Color	GRAY

H.S.

25 24 31 32 33

Terminal No.	Color of Wire	Signal Name
24	P	AUDIO STRG SW REMOTE A
25	W	ASCD
31	BG	AUDIO STRG SW REMOTE B
32	G	ASCDG
33	R	AUDIO STRG SW GND

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
1G	P	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)

2G	W	TO ENGINE ROOM HARNESS
3G	P	TO ENGINE ROOM HARNESS
4G	G	TO ENGINE ROOM HARNESS
5G	P	TO ENGINE ROOM HARNESS
6G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6G	R	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7G	SHIELD	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	BG	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R	TO ENGINE ROOM HARNESS
12G	G	TO ENGINE ROOM HARNESS
13G	G	TO ENGINE ROOM HARNESS
14G	V	TO ENGINE ROOM HARNESS
15G	W	TO ENGINE ROOM HARNESS
16G	R	TO ENGINE ROOM HARNESS
17G	B	TO ENGINE ROOM HARNESS
18G	SHIELD	TO ENGINE ROOM HARNESS
19G	SB	TO ENGINE ROOM HARNESS
20G	LG	TO ENGINE ROOM HARNESS
21G	R	TO ENGINE ROOM HARNESS
22G	B	TO ENGINE ROOM HARNESS
23G	SHIELD	TO ENGINE ROOM HARNESS
24G	W	TO ENGINE ROOM HARNESS
25G	R	TO ENGINE ROOM HARNESS
26G	SHIELD	TO ENGINE ROOM HARNESS
27G	B	TO ENGINE ROOM HARNESS
28G	W	TO ENGINE ROOM HARNESS
29G	G	TO ENGINE ROOM HARNESS
30G	R	TO ENGINE ROOM HARNESS
31G	L	TO ENGINE ROOM HARNESS
32G	G	TO ENGINE ROOM HARNESS
33G	G	TO ENGINE ROOM HARNESS
34G	G	TO ENGINE ROOM HARNESS
35G	P	TO ENGINE ROOM HARNESS
36G	L	TO ENGINE ROOM HARNESS
37G	L	TO ENGINE ROOM HARNESS
38G	W	TO ENGINE ROOM HARNESS
39G	R	TO ENGINE ROOM HARNESS
40G	Y	TO ENGINE ROOM HARNESS
41G	L	TO ENGINE ROOM HARNESS
42G	P	TO ENGINE ROOM HARNESS
43G	W	TO ENGINE ROOM HARNESS
44G	G	TO ENGINE ROOM HARNESS
45G	R	TO ENGINE ROOM HARNESS
46G	Y	TO ENGINE ROOM HARNESS
47G	Y	TO ENGINE ROOM HARNESS
48G	LG	TO ENGINE ROOM HARNESS
49G	P	TO ENGINE ROOM HARNESS
50G	L	TO ENGINE ROOM HARNESS

51G	B/W	TO ENGINE ROOM HARNESS
52G	BR	TO ENGINE ROOM HARNESS
53G	L	TO ENGINE ROOM HARNESS
54G	BG	TO ENGINE ROOM HARNESS
55G	G	TO ENGINE ROOM HARNESS
56G	P	TO ENGINE ROOM HARNESS
57G	P	TO ENGINE ROOM HARNESS
58G	L	TO ENGINE ROOM HARNESS
59G	B	TO ENGINE ROOM HARNESS
60G	W	TO ENGINE ROOM HARNESS
61G	SHIELD	TO ENGINE ROOM HARNESS
62G	G	TO ENGINE ROOM HARNESS
63G	P	TO ENGINE ROOM HARNESS
64G	W	TO ENGINE ROOM HARNESS
65G	G/R	TO ENGINE ROOM HARNESS
66G	R	TO ENGINE ROOM HARNESS
67G	W	TO ENGINE ROOM HARNESS
68G	LG/R	TO ENGINE ROOM HARNESS
69G	P	TO ENGINE ROOM HARNESS
70G	BG	TO ENGINE ROOM HARNESS
71G	GR	TO ENGINE ROOM HARNESS
72G	–	TO ENGINE ROOM HARNESS
73G	–	TO ENGINE ROOM HARNESS
74G	–	TO ENGINE ROOM HARNESS
75G	G	TO ENGINE ROOM HARNESS
76G	Y	TO ENGINE ROOM HARNESS
77G	BR	TO ENGINE ROOM HARNESS
78G	–	TO ENGINE ROOM HARNESS
79G	R	TO ENGINE ROOM HARNESS
80G	W	TO ENGINE ROOM HARNESS
81G	G	TO ENGINE ROOM HARNESS
82G	P	TO ENGINE ROOM HARNESS
83G	P	TO ENGINE ROOM HARNESS
84G	P	TO ENGINE ROOM HARNESS
85G	P	TO ENGINE ROOM HARNESS
86G	P	TO ENGINE ROOM HARNESS
87G	P	TO ENGINE ROOM HARNESS
88G	P	TO ENGINE ROOM HARNESS
89G	R	TO ENGINE ROOM HARNESS
90G	P	TO ENGINE ROOM HARNESS
91G	L	TO ENGINE ROOM HARNESS
92G	P	TO ENGINE ROOM HARNESS
93G	P	TO ENGINE ROOM HARNESS
94G	O	TO ENGINE ROOM HARNESS
95G	B	TO ENGINE ROOM HARNESS
96G	P	TO ENGINE ROOM HARNESS
97G	P	TO ENGINE ROOM HARNESS
98G	P	TO ENGINE ROOM HARNESS
99G	P	TO ENGINE ROOM HARNESS
100G	SHIELD	TO ENGINE ROOM HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	V	TO BODY HARNESS RH
2	G	TO BODY HARNESS RH
3	Y	TO BODY HARNESS RH
4	R	TO BODY HARNESS RH
5	BG	TO BODY HARNESS RH
6	LG	TO BODY HARNESS RH
7	SB	TO BODY HARNESS RH
8	G	TO BODY HARNESS RH
9	B	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	SHIELD	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH
13	B	TO BODY HARNESS RH
14	SHIELD	TO BODY HARNESS RH
15	B	TO BODY HARNESS RH
16	W	TO BODY HARNESS RH
17	SHIELD	TO BODY HARNESS RH
18	SB	TO BODY HARNESS RH
19	LG	TO BODY HARNESS RH
20	SB	TO BODY HARNESS RH
21	B	TO BODY HARNESS RH
22	W	TO BODY HARNESS RH
23	SHIELD	TO BODY HARNESS RH
24	W	TO BODY HARNESS RH
25	B	TO BODY HARNESS RH
26	SHIELD	TO BODY HARNESS RH
27	B	TO BODY HARNESS RH
28	W	TO BODY HARNESS RH
29	SHIELD	TO BODY HARNESS RH
30	B	TO BODY HARNESS RH
31	W	TO BODY HARNESS RH
32	L	TO BODY HARNESS RH
33	Y	TO BODY HARNESS RH
34	–	TO BODY HARNESS RH
35	–	TO BODY HARNESS RH
36	–	TO BODY HARNESS RH
37	BR	TO BODY HARNESS RH
38	–	TO BODY HARNESS RH
39	–	TO BODY HARNESS RH
40	–	TO BODY HARNESS RH

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	GR	TO BODY HARNESS
2A	BR	TO BODY HARNESS
3A	Y	TO BODY HARNESS
4A	V	TO BODY HARNESS
5A	L/B	TO BODY HARNESS
6A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	G	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	Y	TO BODY HARNESS
8A	W	TO BODY HARNESS
9A	L	TO BODY HARNESS
10A	R	TO BODY HARNESS
11A	R	TO BODY HARNESS
12A	BG	TO BODY HARNESS
13A	O	TO BODY HARNESS
14A	LG	TO BODY HARNESS
15A	R	TO BODY HARNESS
16A	G	TO BODY HARNESS
17A	B	TO BODY HARNESS
18A	B	TO BODY HARNESS
19A	SHIELD	TO BODY HARNESS
20A	B	TO BODY HARNESS
21A	SHIELD	TO BODY HARNESS
22A	–	TO BODY HARNESS
23A	W	TO BODY HARNESS
24A	B	TO BODY HARNESS
25A	SHIELD	TO BODY HARNESS
26A	B	TO BODY HARNESS
27A	B	TO BODY HARNESS
28A	SHIELD	TO BODY HARNESS
29A	R	TO BODY HARNESS
30A	B	TO BODY HARNESS
31A	R	TO BODY HARNESS
32A	Y/R	TO BODY HARNESS
33A	W	TO BODY HARNESS
34A	B	TO BODY HARNESS
35A	SHIELD	TO BODY HARNESS
36A	L/Y	TO BODY HARNESS
37A	LG	TO BODY HARNESS
38A	V	TO BODY HARNESS
39A	SB	TO BODY HARNESS
40A	BR	TO BODY HARNESS
41A	Y	TO BODY HARNESS
42A	G	TO BODY HARNESS
43A	–	TO BODY HARNESS
44A	W	TO BODY HARNESS
45A	R	TO BODY HARNESS
46A	BG	TO BODY HARNESS
47A	LG	TO BODY HARNESS
48A	R	TO BODY HARNESS
49A	P	TO BODY HARNESS
50A	W	TO BODY HARNESS
51A	L	TO BODY HARNESS
52A	P	TO BODY HARNESS
53A	G	TO BODY HARNESS
54A	W	TO BODY HARNESS
55A	BG	TO BODY HARNESS
56A	BR	TO BODY HARNESS
57A	P	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
57A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
58A	G	TO BODY HARNESS
59A	SB	TO BODY HARNESS
60A	L	TO BODY HARNESS
61A	G	TO BODY HARNESS
62A	BR	TO BODY HARNESS
63A	BR	TO BODY HARNESS
64A	Y	TO BODY HARNESS
65A	W	TO BODY HARNESS
66A	BG	TO BODY HARNESS
67A	Y	TO BODY HARNESS
68A	LG	TO BODY HARNESS
69A	R	TO BODY HARNESS
70A	P	TO BODY HARNESS
71A	BR	TO BODY HARNESS
72A	SB	TO BODY HARNESS
73A	BG	TO BODY HARNESS
74A	BR	TO BODY HARNESS
75A	LG	TO BODY HARNESS
76A	W	TO BODY HARNESS
77A	L	TO BODY HARNESS
78A	V	TO BODY HARNESS
79A	LG	TO BODY HARNESS
80A	Y	TO BODY HARNESS
81A	L	TO BODY HARNESS
82A	BG	TO BODY HARNESS
83A	Y	TO BODY HARNESS
84A	LG	TO BODY HARNESS
85A	SHIELD	TO BODY HARNESS
86A	Y	TO BODY HARNESS
87A	LG	TO BODY HARNESS
88A	BR	TO BODY HARNESS
89A	L	TO BODY HARNESS
90A	P	TO BODY HARNESS
91A	L	TO BODY HARNESS
92A	L	TO BODY HARNESS
93A	B	TO BODY HARNESS
94A	W	TO BODY HARNESS
95A	W	TO BODY HARNESS
96A	–	TO BODY HARNESS
97A	SB	TO BODY HARNESS
98A	Y	TO BODY HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
98A	L	TO BODY HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
99A	–	TO BODY HARNESS
100A	–	TO BODY HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M47
Connector Name	TCU
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	B+
2	B	GND
3	P	ACC
4	LG	IGN
5	G	ACC OUT
6	G	AV ACC
7	B	GND
8	–	–
9	L	V CAN-H
10	P	V CAN-L
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	W	MIC VCC
19	B	MIC SIG
20	SHIELD	MIC GND
21	W	MIC VCC DETECTION
22	B	DCM MIC SIG
23	SHIELD	DCM MIC GND
24	–	–
25	–	–
26	–	–
27	–	–
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	–	–
34	R	ECALL SW
35	W	LED A
36	–	–
37	–	–
38	–	–

39	–	–
40	–	–

Connector No.	M55
Connector Name	AV CONTROL UNIT
Connector Type	GT17HN-4DP-2H(A)
Connector Color	BLUE

H.S.

138	137
140	139
141	

Terminal No.	Color of Wire	Signal Name
137	R	VBUS
138	B	USB GND
139	G	USB D+
140	W	USB D-
141	SHIELD	SHIELD

Connector No.	M56
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO CONSOLE SUB HARNESS
2	W	TO CONSOLE SUB HARNESS
3	SHIELD	TO CONSOLE SUB HARNESS
4	P	TO CONSOLE SUB HARNESS
5	Y	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	SHIELD	TO CONSOLE SUB HARNESS
8	P	TO CONSOLE SUB HARNESS
9	Y	TO CONSOLE SUB HARNESS
10	–	TO CONSOLE SUB HARNESS
11	–	TO CONSOLE SUB HARNESS
12	–	TO CONSOLE SUB HARNESS
13	R	TO CONSOLE SUB HARNESS
14	W	TO CONSOLE SUB HARNESS
15	B	TO CONSOLE SUB HARNESS

16	SHIELD	TO CONSOLE SUB HARNESS

Connector No.	M62
Connector Name	INSTRUMENT PANEL TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR INST TWDR LH+
2	W	FR INST TWDR LH-

Connector No.	M63
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO CONSOLE SUB HARNESS
2	G	TO CONSOLE SUB HARNESS
3	R	TO CONSOLE SUB HARNESS
4	SHIELD	TO CONSOLE SUB HARNESS
5	W	TO CONSOLE SUB HARNESS
6	B	TO CONSOLE SUB HARNESS
7	V	TO CONSOLE SUB HARNESS
8	G	TO CONSOLE SUB HARNESS
9	R	TO CONSOLE SUB HARNESS
10	SHIELD	TO CONSOLE SUB HARNESS
11	W	TO CONSOLE SUB HARNESS
12	B	TO CONSOLE SUB HARNESS
13	L	TO CONSOLE SUB HARNESS
14	G	TO CONSOLE SUB HARNESS
15	R	TO CONSOLE SUB HARNESS
16	SHIELD	TO CONSOLE SUB HARNESS
17	W	TO CONSOLE SUB HARNESS
18	B	TO CONSOLE SUB HARNESS

19	L	TO CONSOLE SUB HARNESS
20	G	TO CONSOLE SUB HARNESS
21	R	TO CONSOLE SUB HARNESS
22	SHIELD	TO CONSOLE SUB HARNESS
23	W	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS

Connector No.	M64
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO CONSOLE SUB HARNESS
2	B	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	LG	TO CONSOLE SUB HARNESS
5	SHIELD	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	BG	TO CONSOLE SUB HARNESS
9	B	TO CONSOLE SUB HARNESS
10	–	TO CONSOLE SUB HARNESS
11	B/W	TO CONSOLE SUB HARNESS
12	BR	TO CONSOLE SUB HARNESS
13	Y	TO CONSOLE SUB HARNESS
14	SB	TO CONSOLE SUB HARNESS
15	L	TO CONSOLE SUB HARNESS
16	LG	TO CONSOLE SUB HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M65
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SUB HARNESS
2	G	TO CONSOLE SUB HARNESS
3	BR	TO CONSOLE SUB HARNESS
4	BG	TO CONSOLE SUB HARNESS
5	W	TO CONSOLE SUB HARNESS
6	P	TO CONSOLE SUB HARNESS
7	W	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	LG	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	R	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
8	L	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
9	V	TO CONSOLE SUB HARNESS
10	BG	TO CONSOLE SUB HARNESS
11	P	TO CONSOLE SUB HARNESS
12	G	TO CONSOLE SUB HARNESS
13	SHIELD	TO CONSOLE SUB HARNESS
14	B	TO CONSOLE SUB HARNESS
15	R	TO CONSOLE SUB HARNESS
16	W	TO CONSOLE SUB HARNESS
17	SB	TO CONSOLE SUB HARNESS
18	P	TO CONSOLE SUB HARNESS
19	G	TO CONSOLE SUB HARNESS
20	BG	TO CONSOLE SUB HARNESS
21	R	TO CONSOLE SUB HARNESS
22	W	TO CONSOLE SUB HARNESS
23	R	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS
25	G	TO CONSOLE SUB HARNESS
26	W	TO CONSOLE SUB HARNESS
27	LG	TO CONSOLE SUB HARNESS
28	B	TO CONSOLE SUB HARNESS
29	BR	TO CONSOLE SUB HARNESS
30	SHIELD	TO CONSOLE SUB HARNESS
31	B	TO CONSOLE SUB HARNESS

Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	L	TO BODY HARNESS
2	G	TO BODY HARNESS
3	Y	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
3	R	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
4	P	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
4	SHIELD	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
5	LG	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	W	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	BG	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	SB	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	G	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
9	R	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
10	SHIELD	TO BODY HARNESS
11	B	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
11	W	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
12	W	TO BODY HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
12	B	TO BODY HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
13	Y	TO BODY HARNESS
14	SB	TO BODY HARNESS
15	LG	TO BODY HARNESS
16	LG	TO BODY HARNESS

32	W	TO CONSOLE SUB HARNESS

17	SB	TO BODY HARNESS
18	G	TO BODY HARNESS
19	P	TO BODY HARNESS
20	W	TO BODY HARNESS
21	R	TO BODY HARNESS
22	B	TO BODY HARNESS
23	SHIELD	TO BODY HARNESS
24	-	TO BODY HARNESS

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1R	R	TAIL LH
2R	LG	IGNITION
3R	G	BATTERY
4R	-	-
5R	Y	BATTERY
6R	Y	IGNITION
7R	-	-
8R	-	-
9R	G	BRAKE
10R	W	BATTERY
11R	-	-
12R	-	-
13R	GR	GROUND
14R	-	-
15R	-	-
16R	BG	IGNITION

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO BODY HARNESS - (WITHOUT NAVI)
1	R	TO BODY HARNESS - (WITH NAVI)
2	B	TO BODY HARNESS - (WITHOUT NAVI)
2	W	TO BODY HARNESS - (WITH NAVI)
3	R	TO BODY HARNESS - (WITHOUT NAVI)
3	B	TO BODY HARNESS - (WITH NAVI)
4	SHIELD	TO BODY HARNESS
5	B	TO BODY HARNESS
6	W	TO BODY HARNESS
7	SHIELD	TO BODY HARNESS
8	B	TO BODY HARNESS
9	SB	TO BODY HARNESS
10	BG	TO BODY HARNESS
11	R	TO BODY HARNESS
12	W	TO BODY HARNESS
13	–	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	L	TO BODY HARNESS
17	P	TO BODY HARNESS - (WITHOUT NAVI)
17	Y	TO BODY HARNESS - (WITH NAVI)
18	Y	TO BODY HARNESS - (WITHOUT NAVI)
18	P	TO BODY HARNESS - (WITH NAVI)
19	W	TO BODY HARNESS - (WITHOUT NAVI)
19	B	TO BODY HARNESS - (WITH NAVI)
20	B	TO BODY HARNESS - (WITHOUT NAVI)
20	W	TO BODY HARNESS - (WITH NAVI)
21	R	TO BODY HARNESS - (WITHOUT NAVI)
21	SHIELD	TO BODY HARNESS - (WITH NAVI)
22	G	TO BODY HARNESS - (WITHOUT NAVI)
22	W	TO BODY HARNESS - (WITH NAVI)
23	SHIELD	TO BODY HARNESS - (WITHOUT NAVI)
23	R	TO BODY HARNESS - (WITH NAVI)
24	SHIELD	TO BODY HARNESS
25	B	TO BODY HARNESS
26	G	TO BODY HARNESS
27	R	TO BODY HARNESS - (WITHOUT NAVI)
27	B	TO BODY HARNESS - (WITH NAVI)
28	B	TO BODY HARNESS - (WITHOUT NAVI)
28	R	TO BODY HARNESS - (WITH NAVI)
29	G	TO BODY HARNESS - (WITH NAVI)
29	W	TO BODY HARNESS - (WITHOUT NAVI)
30	SHIELD	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

Connector No.	M70
Connector Name	SONAR CONTROL UNIT
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	FIR SENSOR SIGNAL
2	B	FIL SENSOR SIGNAL
3	R	FOL SENSOR SIGNAL
4	R	FOR SENSOR SIGNAL
5	B	V CAN-H
6	W	V CAN-L
7	–	–
8	–	–
9	B	RIR SENSOR SIGNAL
10	B	ROR SENSOR SIGNAL
11	–	–
12	LG	IGN
13	B	FR SENSOR GND
14	B	RR SENSOR GND
15	GR	GND
16	LG	DISABLE SW
17	GR	LED OUTPUT
18	–	–
19	BR	SPEAKER PWR
20	LG	SPEAKER RR SIGNAL
21	B	RIL SENSOR SIGNAL
22	W	ROL SENSOR SIGNAL
23	–	–
24	–	–

Connector No.	M73
Connector Name	INSTRUMENT PANEL TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	FR INST TWDR RH+
2	W	FR INST TWDR RH-

Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK

H.S.

116	115	114	113	112	111	110	109	108	107	106	105
128	127	126	125	124	123	122	121	120	119	118	117

Terminal No.	Color of Wire	Signal Name
105	LG	FR FLASHER
106	–	–
107	W	LOW SIDE START SW LED
108	G	SHIFT LOCK SOLENOID OUT
109	R	REVERSE SIGNAL
110	–	–
111	P	ACC LED
112	–	–
113	L	ACC RELAY OUT
114	W	AS DOOR ANT A
115	BG	AS DOOR ANT B
116	W	ROOM ANT 2 A
117	SB	FL FLASHER
118	–	–
119	R	RF NIMOCO
120	–	–
121	G	DR DOOR ANT B
122	P	DR DOOR ANT A
123	–	–
124	–	–
125	–	–
126	P	IMMO START BUTTON ANT B
127	BG	IMMO START BUTTON ANT A
128	R	ROOM ANT 2 B

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	SHIELD	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	P	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS RH
10	G	TO BODY HARNESS RH
11	L	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	P	TO BODY HARNESS RH
15	O	TO BODY HARNESS RH
16	SB	TO BODY HARNESS RH
17	L	TO BODY HARNESS RH
18	P	TO BODY HARNESS RH
19	R	TO BODY HARNESS RH
20	–	TO BODY HARNESS RH
21	G	TO BODY HARNESS RH
22	R	TO BODY HARNESS RH
23	G	TO BODY HARNESS RH
24	R	TO BODY HARNESS RH - (WITH CLIMATE CONTROLLED SEAT)
24	V	TO BODY HARNESS RH - (WITHOUT CLIMATE CONTROLLED SEAT)

25	W	TO BODY HARNESS RH
26	W	TO BODY HARNESS RH
27	BG	TO BODY HARNESS RH
28	V	TO BODY HARNESS RH
29	SB	TO BODY HARNESS RH
30	L	TO BODY HARNESS RH
31	W	TO BODY HARNESS RH
32	–	TO BODY HARNESS RH

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT DOOR RH HARNESS
2	SHIELD	TO FRONT DOOR RH HARNESS
3	G	TO FRONT DOOR RH HARNESS
4	R	TO FRONT DOOR RH HARNESS
5	B	TO FRONT DOOR RH HARNESS
6	G	TO FRONT DOOR RH HARNESS
7	Y	TO FRONT DOOR RH HARNESS
8	W	TO FRONT DOOR RH HARNESS
9	BG	TO FRONT DOOR RH HARNESS
10	P	TO FRONT DOOR RH HARNESS
11	LG	TO FRONT DOOR RH HARNESS
12	B	TO FRONT DOOR RH HARNESS
13	W	TO FRONT DOOR RH HARNESS
14	Y/R	TO FRONT DOOR RH HARNESS
15	GR	TO FRONT DOOR RH HARNESS
16	B/W	TO FRONT DOOR RH HARNESS
17	BG	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	G	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	W	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	BG	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	G	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
19	P	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)

20	G	TO FRONT DOOR RH HARNESS
21	W	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	R	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
22	SB	TO FRONT DOOR RH HARNESS
23	P	TO FRONT DOOR RH HARNESS
24	G	TO FRONT DOOR RH HARNESS
25	BG	TO FRONT DOOR RH HARNESS
26	W	TO FRONT DOOR RH HARNESS
27	–	TO FRONT DOOR RH HARNESS
28	–	TO FRONT DOOR RH HARNESS
29	W	TO FRONT DOOR RH HARNESS
30	SB	TO FRONT DOOR RH HARNESS
31	W	TO FRONT DOOR RH HARNESS
32	–	TO FRONT DOOR RH HARNESS

Connector No.	M92
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	–	–
6	SHIELD	FRONT COMP SHIELD
7	SHIELD	SHIELD
8	B	R CAMERA COMP
9	B	FRONT DISP IT
10	W	IT FRONT DISP
11	Y	BATT
12	B	GND
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	B	FRONT COMP +
19	W	FRONT COMP -
20	R	FRONT COMP SYNC
21	–	–

22	SHIELD	SHIELD
23	P	ACC
24	–	–

Connector No.	M95
Connector Name	WIRE TO WIRE
Connector Type	GT13SH-2/1S-HU
Connector Color	GRAY

H.S.

1
2 3
4 5

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M96
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	Y	+B
3	LG	IGN
4	P	ACC
5	–	–
6	–	–
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	–	–
19	B	MCAN-1H
20	W	MCAN-1L
21	–	–
22	–	–
23	SHIELD	MCAN GND
24	–	–
25	LG	REV
26	–	–
27	B	CAN-H
28	W	CAN-L
29	SHIELD	CAN GND
30	W	MIRROR SIGNAL 2
31	–	–
32	G	MIRROR SIGNAL 1
33	–	–
34	–	–
35	–	–
36	–	–
37	–	–
38	–	–
39	–	–
40	–	–

Connector No.	M97
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72
41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71

Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	–	–
47	B	VIDEO OUTPUT +
48	SHIELD	VIDEO OUTPUT -
49	W	RV SERIAL SIGNAL
50	B	RV POWER
51	–	–
52	R	RV POWER GND
53	G	RV VIDEO +
54	SHIELD	RV VIDEO -
55	B	SV2 SERIAL SIGNAL
56	W	SV2 POWER
57	–	–
58	G	SV2 POWER GND
59	R	SV2 VIDEO +
60	SHIELD	SV2 POWER GND
61	W	SV1 SERIAL SIGNAL
62	B	SV1 POWER
63	–	–
64	R	SV1 POWER GND
65	G	SV1 VIDEO +
66	SHIELD	SV1 VIDEO -
67	B	FV SERIAL SIGNAL
68	W	FV POWER
69	–	–
70	G	FV POWER GND
71	R	FV VIDEO +
72	SHIELD	FV VIDEO -

Connector No.	M98
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	GR	GND
2	–	–
3	P	ACC
4	R	ILL
5	B	ILL CONT
6	SB	MCAN-H
7	–	–
8	LG	MCAN-L
9	V	EJECT GND
10	–	–
11	–	–
12	–	–
13	–	–
14	Y	CD (DVD) EJECT
15	R	AIRBAG CUTOFF
16	LG	HAZARD

Connector No.	M109
Connector Name	FRONT TWEETER LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2 1

Terminal No.	Color of Wire	Signal Name
1	P	FR DR SP LH+ (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
1	G	FR DR SP LH+ (WITH BOSE AUDIO SYSTEM WITH SURROUND SOUND SYSTEM)
2	W	FR DR SP LH- (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)

2	R	FR DR SP LH- (WITH BOSE AUDIO SYSTEM WITH SURROUND SOUND SYSTEM)

Connector No.	M110
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2 1

Terminal No.	Color of Wire	Signal Name
1	G	FRONT CENTER SP+
2	W	FRONT CENTER SP-

Connector No.	M111
Connector Name	FRONT TWEETER RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

2 1

Terminal No.	Color of Wire	Signal Name
1	W	FR DR SP RH+ (WITH SURROUND SOUND SYSTEM)
1	G	FR DR SP RH+ (WITHOUT SURROUND SOUND SYSTEM)
2	B	FR DR SP RH- (WITH SURROUND SOUND SYSTEM)
2	W	FR DR SP RH- (WITHOUT SURROUND SOUND SYSTEM)

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M115
Connector Name	WIRE TO WIRE
Connector Type	GT17VS-6DS-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO CONSOLE SUB HARNESS
2	R	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	W	TO CONSOLE SUB HARNESS
5	–	TO CONSOLE SUB HARNESS
6	G	TO CONSOLE SUB HARNESS
7	–	TO CONSOLE SUB HARNESS

Connector No.	M120
Connector Name	JOINT CONNECTOR-M21
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	REVERSE LAMP OUT
2	LG	REVERSE LAMP OUT
3	LG	REVERSE LAMP OUT
4	–	–

Connector No.	M133
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA CODING C
Connector Color	PINK

H.S.

Terminal No.	Color of Wire	Signal Name
169	B	SAT ANT
170	SHIELD	SAT SHIELD

Connector No.	M134
Connector Name	TCU
Connector Type	GT17HN-16DP-2H
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
41	W	U-VOICE
42	L	VOICE GND
43	–	–
44	–	–
45	–	–
46	B	MANUFACTURE SPECIFIC
47	B	USB VBUS
48	B	USB D-
49	B	D-VOICE
50	–	–
51	–	–
52	–	–
53	–	–
54	–	–
55	SHIELD	USB GND
56	L/W	D+
57	SHIELD	CONN CHASSIS GND

Connector No.	M135
Connector Name	TCU
Connector Type	GT16C-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
58	B	TEL ANT
59	SHIELD	TEL SHIELD

Connector No.	M136
Connector Name	AV CONTROL UNIT (WITH TELEMATICS SYSTEM)
Connector Type	GT17HN-16DP-2H
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
145	B	USB D-
146	B	USB VBUS
147	B	MANUFACTURE SPECIFIC
148	–	–
149	–	–
150	–	–
151	L	VOICE GND
152	W	U-VOICE
153	L/W	D+
154	SHIELD	USB GND
155	–	–
156	–	–
157	–	–
158	–	–
159	–	–
160	B	D-VOICE
161	SHIELD	CONN CHASSIS GND

Connector No.	M138
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU (B)
Connector Color	GREEN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	M140
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT17H-4DP-2H
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
162	–	–
163	–	–
164	W	GVIF-
165	R	GVIF+
166	SHIELD	SHIELD

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

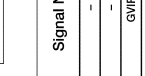
Connector No.	M141
Connector Name	DISPLAY UNIT
Connector Type	GT17H-4DP-2H
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
25	–	–
26	–	–
27	W	GVIF-
28	R	GVIF+
29	SHIELD	SHIELD

Connector No.	M143
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU
Connector Color	GRAY

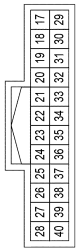
H.S.



Terminal No.	Color of Wire	Signal Name
171	B	ANT +B
172	B	ANT MAIN
173	SHIELD	SHIELD
174	B	ANT SUB
175	SHIELD	SHIELD

Connector No.	M148
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH24FW-NH
Connector Color	WHITE

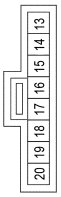
H.S.



Terminal No.	Color of Wire	Signal Name
17	–	–
18	–	–
19	G/W	AIRBAG CUTOFF
20	BR	ILL
21	W/L	ENCD-B 2
22	G	ENCD-PUSH 1
23	L	ENCD-B 1
24	Y	KEY-SCAN IN 2
25	R	KEY-SCAN IN 0
26	W/V	KEY-SCAN OUT 1
27	W/B	KEY-SCAN OUT 3
28	P	CD (DVD) EJECT
29	–	–
30	–	–
31	V	ILL CONT
32	G	ENCD-A 2
33	L/R	ENCD-PUSH 2
34	GR	ENCD-A 1
35	W/R	KEY-SCAN IN 3
36	O	KEY-SCAN IN 1
37	G	KEY-SCAN OUT 0
38	L	KEY-SCAN OUT 2
39	SB	KEY-SCAN OUT 4
40	B	GND

Connector No.	M149
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY
Connector Color	GRAY

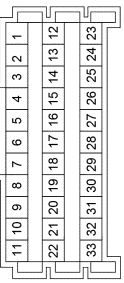
H.S.



Terminal No.	Color of Wire	Signal Name
13	R	ASCD
14	B	AUDIO STRG SW REMOTE A
15	GR	AUDIO STRG SW REMOTE B
16	L	ASCDG
17	BR	AUDIO STRG SW GND
18	G	HORN SWITCH
19	Y	ILL CONT
20	W	ILL

Connector No.	M150
Connector Name	JOINT CONNECTOR-M27
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

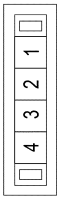


Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	B	GROUND
5	B	GROUND
6	B	GROUND
7	–	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–

15	W	SENSOR POWER
16	W	SENSOR POWER
17	W	SENSOR POWER
18	–	–
19	–	–
20	–	–
21	SHIELD	GROUND
22	SHIELD	GROUND
23	GR	GROUND
24	SHIELD	GROUND
25	SHIELD	GROUND
26	SHIELD	GROUND
27	SHIELD	GROUND
28	SHIELD	GROUND
29	SHIELD	GROUND
30	SHIELD	GROUND
31	GR	GROUND
32	B	GROUND
33	B	GROUND

Connector No.	M151
Connector Name	JOINT CONNECTOR-M14
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	FR DOOR RH- OUT
3	W	FR DOOR RH- OUT
4	B	FR DOOR RH- OUT

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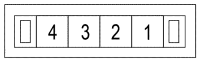
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M152
Connector Name	JOINT CONNECTOR-M19
Connector Type	TK04FW-J
Connector Color	WHITE

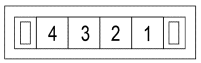
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	G	FR DOOR RH+ OUT
3	G	FR DOOR RH+ OUT
4	G	FR DOOR RH+ OUT

Connector No.	M153
Connector Name	JOINT CONNECTOR-M16
Connector Type	TK04FW-J
Connector Color	WHITE

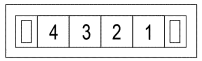
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	G	FR DOOR RH+ OUT
3	G	FR DOOR RH+ OUT
4	W	FR DOOR RH+ OUT

Connector No.	M154
Connector Name	JOINT CONNECTOR-M20
Connector Type	TK04FW-J
Connector Color	WHITE

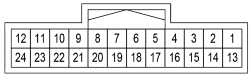
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	FR DOOR RH- OUT
3	R	FR DOOR RH- OUT
4	W	FR DOOR RH- OUT

Connector No.	M155
Connector Name	PRESET SWITCH
Connector Type	TH24FW-NH
Connector Color	WHITE

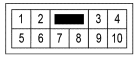
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	G/W	AIRBAG CUTOFF
4	BR	ILL
5	W/L	ENCD-B 2
6	G	ENCD-PUSH 1
7	L	ENCD-B 1
8	Y	KEY-SCAN IN 2
9	R	KEY-SCAN IN 0
10	W/V	KEY-SCAN OUT 1
11	W/B	KEY-SCAN OUT 3
12	P	CD (DVD) EJECT
13	–	–
14	–	–
15	V	ILL CONT
16	G	ENCD-A 2
17	L/R	ENCD-PUSH 2
18	GR	ENCD-A 1
19	W/R	KEY-SCAN IN 3
20	O	KEY-SCAN IN 1
21	G	KEY-SCAN OUT 0
22	L	KEY-SCAN OUT 2
23	SB	KEY-SCAN OUT 4
24	B	GND

Connector No.	M158
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS
Connector Color	WHITE

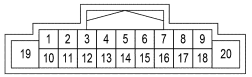
H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT DOOR RH HARNESS
2	B	TO FRONT DOOR RH HARNESS
3	SHIELD	TO FRONT DOOR RH HARNESS
4	BR	TO FRONT DOOR RH HARNESS
5	Y	TO FRONT DOOR RH HARNESS
6	L	TO FRONT DOOR RH HARNESS
7	LG	TO FRONT DOOR RH HARNESS
8	GR	TO FRONT DOOR RH HARNESS
9	BR	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
9	G	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
10	Y	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
10	W	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

Connector No.	M161
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI AND SURROUND SOUND SYSTEM)
Connector Type	NH18FW-CS2
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	B	FR LH PRE+
3	W	FR LH PRE-
4	B	RR LH PRE+
5	W	RR LH PRE-
6	G	STRG SW A
7	G	ACC
8	–	–
9	–	–
10	BR	SHIELD
11	W	FR RH PRE+
12	B	FR RH PRE-
13	B	RR RH PRE+
14	W	RR RH PRE-
15	B	STRG SW GND
16	W	STRG SW B
17	–	–
18	–	–
19	Y	+B
20	GR	GND

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M162
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI AND SURROUND SOUND SYSTEM)
Connector Type	TH28FW
Connector Color	WHITE

H.S.

21	22	23	24	25	26	27	28	29	30	31	32	33	34
35	36	37	38	39	40	41	42	43	44	45	46	47	48

Terminal No.	Color of Wire	Signal Name
21	–	–
22	–	–
23	–	–
24	W	AUX AUDIO LH
25	–	–
26	W	HP 1 LH+
27	B	HP 1 RH+
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	–	–
34	–	–
35	–	–
36	–	–
37	SHIELD	AUX SHIELD
38	R	AUX AUDIO RH
39	B	AUX AUDIO-
40	R	HP 1 LH-
41	G	HP 1 RH-
42	SHIELD	HP 1 SHIELD
43	–	–
44	–	–
45	–	–
46	–	–
47	–	–
48	–	–

Connector No.	M163
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI AND SURROUND SOUND SYSTEM)
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

Terminal No.	Color of Wire	Signal Name
49	–	–
50	–	–
51	–	–
52	–	–
53	G	PKB SIG
54	–	–
55	W	NAVI COMP1-
56	B	NAVI COMP1+
57	BG	RESERVE I1
58	G	RESERVE I2
59	SHIELD	MIC GND
60	W	MIC VCC
61	W	IT-DISP
62	P	CAN-L
63	LG	M-CAN L
64	LG	M-CAN L TRM
65	–	–
66	–	–
67	P	MR OUTPUT
68	LG	IGN
69	R	REVERSE SIG
70	BG	SPEED
71	SHIELD	NAVI COMP1 SHIELD
72	R	GND
73	–	–
74	–	–
75	B	MIC SIG
76	SHIELD	DISP SHIELD
77	B	DISP-IT
78	L	CAN-H
79	SB	M-CAN H
80	SB	M-CAN H TRM

Connector No.	M164
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI AND SURROUND SOUND SYSTEM)
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

81	83	85	87	89	91	93	95	97	99	101	103	105	107	109	111	113	115	117	119
82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120

Terminal No.	Color of Wire	Signal Name
81	–	–
82	–	–
83	–	–
84	–	–
85	–	–
86	–	–
87	–	–
88	–	–
89	–	–
90	–	–
91	W	AUX VIDEO+
92	B	AUX VIDEO-
93	–	–
94	SHIELD	VIDEO SHIELD
95	–	–
96	–	–
97	Y	DVD EJECT
98	V	EJECT GND
99	–	–
100	–	–
101	–	–
102	–	–
103	–	–
104	–	–
105	W	NAVI COMP2-
106	SHIELD	NAVI COMP2 SHIELD
107	B	NAVI COMP2+
108	–	–
109	–	–
110	–	–
111	–	–
112	–	–
113	–	–
114	–	–
115	–	–

116	–	–
117	–	–
118	–	–
119	–	–
120	–	–

Connector No.	M165
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM-WITH NAVI AND SURROUND SOUND SYSTEM)
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136

Terminal No.	Color of Wire	Signal Name
121	–	–
122	B	GUIDE+
123	W	GUIDE-
124	B	SUB WOOFER PRE+
125	W	CENTER PRE+
126	Y	CENTER SHIELD
127	–	–
128	–	–
129	–	–
130	–	–
131	SHIELD	GUIDE SHIELD
132	W	SUB WOOFER PRE-
133	B	CENTER PRE-
134	–	–
135	–	–
136	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M167
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO FRONT DOOR LH HARNESS
2	V	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	V	TO FRONT DOOR LH HARNESS
5	SB	TO FRONT DOOR LH HARNESS
6	BR	TO FRONT DOOR LH HARNESS
7	Y	TO FRONT DOOR LH HARNESS
8	W	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
8	V	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
9	P	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
9	G	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
9	SB	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
10	L	TO FRONT DOOR LH HARNESS
11	BR	TO FRONT DOOR LH HARNESS
12	Y	TO FRONT DOOR LH HARNESS
13	LG	TO FRONT DOOR LH HARNESS
14	SHIELD	TO FRONT DOOR LH HARNESS
15	B	TO FRONT DOOR LH HARNESS
16	W	TO FRONT DOOR LH HARNESS

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO FRONT DOOR LH HARNESS
2	R	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	P	TO FRONT DOOR LH HARNESS
5	V	TO FRONT DOOR LH HARNESS
6	R	TO FRONT DOOR LH HARNESS
7	G	TO FRONT DOOR LH HARNESS
8	P	TO FRONT DOOR LH HARNESS
9	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
9	R	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
10	R	TO FRONT DOOR LH HARNESS
11	G	TO FRONT DOOR LH HARNESS
12	P	TO FRONT DOOR LH HARNESS
13	P	TO FRONT DOOR LH HARNESS
14	BG	TO FRONT DOOR LH HARNESS
15	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	G	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
16	G	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
17	G	TO FRONT DOOR LH HARNESS
18	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	BG	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	W	TO FRONT DOOR LH HARNESS
20	SB	TO FRONT DOOR LH HARNESS
21	P	TO FRONT DOOR LH HARNESS
22	W	TO FRONT DOOR LH HARNESS
23	G	TO FRONT DOOR LH HARNESS
24	SB	TO FRONT DOOR LH HARNESS
25	R	TO FRONT DOOR LH HARNESS
26	B	TO FRONT DOOR LH HARNESS
27	–	TO FRONT DOOR LH HARNESS
28	B	TO FRONT DOOR LH HARNESS
29	SHIELD	TO FRONT DOOR LH HARNESS
30	R	TO FRONT DOOR LH HARNESS
31	G	TO FRONT DOOR LH HARNESS
32	W	TO FRONT DOOR LH HARNESS
33	BG	TO FRONT DOOR LH HARNESS
34	Y	TO FRONT DOOR LH HARNESS
35	R	TO FRONT DOOR LH HARNESS
36	BG	TO FRONT DOOR LH HARNESS
37	W	TO FRONT DOOR LH HARNESS
38	P	TO FRONT DOOR LH HARNESS
39	W	TO FRONT DOOR LH HARNESS
40	P	TO FRONT DOOR LH HARNESS

Connector No.	M170
Connector Name	JOINT CONNECTOR-M09
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SHIELD	SHIELD
2	Y	SHIELD
3	SHIELD	SHIELD
4	–	–
5	–	–
6	GR	SHIELD
7	SHIELD	SHIELD
8	SHIELD	SHIELD
9	SHIELD	SHIELD
10	SHIELD	SHIELD
11	–	–
12	G	SENS GND
13	–	–
14	G	SENS GND
15	G	SENS GND
16	G	SENS GND
17	G	SENS GND
18	Y	SENS GND
19	Y	SENS GND
20	Y	SENS GND
21	Y	SENS GND
22	Y	SENS GND
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	W	PW LIN
29	W	PW LIN
30	W	PW LIN
31	–	–
32	W	PW LIN
33	W	PW LIN

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M175
Connector Name	JOINT CONNECTOR-M22
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	BATTERY
2	Y	BATTERY
3	Y	BATTERY
4	Y	BATTERY
5	Y	BATTERY
6	Y	BATTERY
7	Y	BATTERY
8	Y	BATTERY
9	Y	BATTERY
10	–	–
11	Y	BATTERY
12	R	BATTERY
13	R	BATTERY
14	R	BATTERY
15	B	ILLUMI CONT OUT
16	B	ILLUMI CONT OUT
17	B	ILLUMI CONT OUT
18	–	–
19	L	DOOR LOCK DR/AS/FL
20	L	DOOR LOCK DR/AS/FL
21	L	DOOR LOCK DR/AS/FL
22	L	DOOR LOCK DR/AS/FL
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	–	–
29	P	ACCESSORY
30	P	ACCESSORY
31	P	ACCESSORY
32	P	ACCESSORY
33	–	–

Connector No.	M176
Connector Name	JOINT CONNECTOR-M56
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	M CAN-H
2	SB	M CAN-H
3	SB	M CAN-H
4	SB	M CAN-H

Connector No.	M177
Connector Name	JOINT CONNECTOR-M57
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	M CAN-L
2	LG	M CAN-L
3	LG	M CAN-L
4	LG	M CAN-L

Connector No.	M178
Connector Name	JOINT CONNECTOR-M58
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	M CAN-H
2	B	M CAN-H
3	SB	M CAN-H
4	–	–

Connector No.	M179
Connector Name	JOINT CONNECTOR-M59
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	M CAN-L
2	W	M CAN-L
3	LG	M CAN-L
4	–	–

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO CONSOLE SWITCH SUB HARNESS
2	Y	TO CONSOLE SWITCH SUB HARNESS
3	V	TO CONSOLE SWITCH SUB HARNESS
4	–	TO CONSOLE SWITCH SUB HARNESS
5	SHIELD	TO CONSOLE SWITCH SUB HARNESS
6	W	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	BG	TO CONSOLE SWITCH SUB HARNESS
9	B	TO CONSOLE SWITCH SUB HARNESS
10	B	TO CONSOLE SWITCH SUB HARNESS
11	R	TO CONSOLE SWITCH SUB HARNESS
12	BR	TO CONSOLE SWITCH SUB HARNESS
13	LG	TO CONSOLE SWITCH SUB HARNESS
14	L	TO CONSOLE SWITCH SUB HARNESS
15	LG	TO CONSOLE SWITCH SUB HARNESS
16	Y	TO CONSOLE SWITCH SUB HARNESS

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M202
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	W	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	SB	TO CONSOLE SWITCH SUB HARNESS
10	W	TO CONSOLE SWITCH SUB HARNESS
11	B	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	B	TO CONSOLE SWITCH SUB HARNESS
14	LG	TO CONSOLE SWITCH SUB HARNESS
15	W	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	B	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	B	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	R	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	L	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M205
Connector Name	FRONT AUXILIARY INPUT JACKS
Connector Type	A08FW
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
1	W	AUX AUDIO RH+
2	B	AUX GND
3	R	AUX AUDIO LH+
4	–	–
5	–	–
6	–	–
7	W	COMP1 IN +
8	B	COMP1 IN -

Connector No.	M208
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SWITCH SUB HARNESS
2	SHIELD	TO CONSOLE SWITCH SUB HARNESS
3	B	TO CONSOLE SWITCH SUB HARNESS
4	W	TO CONSOLE SWITCH SUB HARNESS
5	SB	TO CONSOLE SWITCH SUB HARNESS
6	G	TO CONSOLE SWITCH SUB HARNESS
7	R	TO CONSOLE SWITCH SUB HARNESS
8	SHIELD	TO CONSOLE SWITCH SUB HARNESS
9	W	TO CONSOLE SWITCH SUB HARNESS
10	B	TO CONSOLE SWITCH SUB HARNESS
11	V	TO CONSOLE SWITCH SUB HARNESS
12	G	TO CONSOLE SWITCH SUB HARNESS
13	R	TO CONSOLE SWITCH SUB HARNESS
14	SHIELD	TO CONSOLE SWITCH SUB HARNESS
15	W	TO CONSOLE SWITCH SUB HARNESS
16	B	TO CONSOLE SWITCH SUB HARNESS
17	SHIELD	TO CONSOLE SWITCH SUB HARNESS
18	B	TO CONSOLE SWITCH SUB HARNESS
19	R	TO CONSOLE SWITCH SUB HARNESS
20	W	TO CONSOLE SWITCH SUB HARNESS
21	L	TO CONSOLE SWITCH SUB HARNESS
22	G	TO CONSOLE SWITCH SUB HARNESS
23	R	TO CONSOLE SWITCH SUB HARNESS
24	SHIELD	TO CONSOLE SWITCH SUB HARNESS
25	W	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	L	TO CONSOLE SWITCH SUB HARNESS
28	G	TO CONSOLE SWITCH SUB HARNESS
29	R	TO CONSOLE SWITCH SUB HARNESS
30	SHIELD	TO CONSOLE SWITCH SUB HARNESS
31	W	TO CONSOLE SWITCH SUB HARNESS
32	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M209
Connector Name	USB INTERFACE
Connector Type	HAA04FG
Connector Color	GREEN

H.S.

2	1
4	3
5	

Terminal No.	Color of Wire	Signal Name
1	B	USB GND
2	R	V-BUS
3	W	USB D-
4	G	USB D+
5	SHIELD	SHIELD

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M210
Connector Name	WIRE TO WIRE
Connector Type	GT17VS-6DP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	W	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	G	TO MAIN HARNESS
7	–	TO MAIN HARNESS

Connector No.	M214
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	V	TO MAIN HARNESS
5	Y	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS
10	–	TO MAIN HARNESS
11	–	TO MAIN HARNESS
12	–	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	R	TO MAIN HARNESS
15	B	TO MAIN HARNESS

16	SHIELD	TO MAIN HARNESS

Connector No.	M215
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	TO MAIN HARNESS
2	G	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	W	TO MAIN HARNESS
6	B	TO MAIN HARNESS
7	V	TO MAIN HARNESS
8	G	TO MAIN HARNESS
9	R	TO MAIN HARNESS
10	SHIELD	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	L	TO MAIN HARNESS
14	G	TO MAIN HARNESS
15	R	TO MAIN HARNESS
16	SHIELD	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	B	TO MAIN HARNESS
19	L	TO MAIN HARNESS
20	G	TO MAIN HARNESS
21	R	TO MAIN HARNESS
22	SHIELD	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	B	TO MAIN HARNESS

Connector No.	M216
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	R	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	B	TO MAIN HARNESS
8	BG	TO MAIN HARNESS
9	B	TO MAIN HARNESS
10	–	TO MAIN HARNESS
11	–	TO MAIN HARNESS
12	BR	TO MAIN HARNESS
13	LG	TO MAIN HARNESS
14	L	TO MAIN HARNESS
15	LG	TO MAIN HARNESS
16	Y	TO MAIN HARNESS

Connector No.	M217
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	BG	TO MAIN HARNESS
3	Y	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	P	TO MAIN HARNESS

7	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	W	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	L	TO MAIN HARNESS
9	G	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
9	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
10	V	TO MAIN HARNESS
11	P	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	SHIELD	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	W	TO MAIN HARNESS
16	R	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	L	TO MAIN HARNESS
19	G	TO MAIN HARNESS
20	Y	TO MAIN HARNESS
21	B	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	R	TO MAIN HARNESS
24	B	TO MAIN HARNESS
25	G	TO MAIN HARNESS
26	W	TO MAIN HARNESS
27	LG	TO MAIN HARNESS
28	B	TO MAIN HARNESS
29	BR	TO MAIN HARNESS
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	W	TO MAIN HARNESS

Connector No.	M230
Connector Name	JOINT CONNECTOR-M01
Connector Type	A06FGY
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	B	GND
3	SHIELD	GND
4	SHIELD	GND
5	–	–
6	–	–

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M231
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	SB	TO CONSOLE SWITCH SUB HARNESS
10	G	TO CONSOLE SWITCH SUB HARNESS
11	R	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	W	TO CONSOLE SWITCH SUB HARNESS
14	B	TO CONSOLE SWITCH SUB HARNESS
15	V	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	SHIELD	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	–	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	R	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	L	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M251
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO CONSOLE SUB HARNESS
2	Y	TO CONSOLE SUB HARNESS
3	V	TO CONSOLE SUB HARNESS
4	G	TO CONSOLE SUB HARNESS
5	SHIELD	TO CONSOLE SUB HARNESS
6	W	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	BG	TO CONSOLE SUB HARNESS
9	B	TO CONSOLE SUB HARNESS
10	B	TO CONSOLE SUB HARNESS
11	R	TO CONSOLE SUB HARNESS
12	P	TO CONSOLE SUB HARNESS
13	BR	TO CONSOLE SUB HARNESS
14	SB	TO CONSOLE SUB HARNESS
15	LG	TO CONSOLE SUB HARNESS
16	Y	TO CONSOLE SUB HARNESS

Connector No.	M254
Connector Name	REAR AUXILIARY INPUT JACKS
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	VTR VIDEO+ OUT
2	B	VTR VIDEO- OUT
3	B	VTR AUDIO GND
4	R	VTR AUDIO L+ OUT
5	W	VTR AUDIO R+ OUT
6	–	–
7	–	–
8	–	–
9	SHIELD	AUDIO SHIELD IN1
10	–	–
11	R	RR AUDIO R+ IN1
12	–	–
13	G	RR AUDIO R- IN1
14	B	RR AUDIO L+ IN1
15	V	AV GND IN (A GND)
16	W	RR AUDIO L- IN1
17	R	RR AUDIO R+ IN2
18	BG	AV GND IN2 (A GND)
19	G	RR AUDIO R- IN2
20	R	RR AUDIO L+ IN2
21	SHIELD	AUDIO SHIELD IN2
22	W	RR AUDIO L- IN2
23	SHIELD	AUDIO SHIELD OUT2
24	W	RR AUDIO L- OUT1
25	G	RR AUDIO R- OUT2
26	B	RR AUDIO L+ OUT2
27	R	RR AUDIO R+ OUT2
28	L	AV GND OUT2 (A GND)
29	P	AV GND OUT1 (A GND)
30	W	RR AUDIO L- OUT1
31	G	RR AUDIO R- OUT1
32	B	RR AUDIO L+ OUT1
33	R	RR AUDIO R+ OUT1
34	–	–
35	SHIELD	AUDIO SHIELD OUT1
36	–	–
37	–	–
38	V	ACC
39	B	GND (POWER)
40	Y	BAT

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BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M257
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SUB HARNESS
2	LG	TO CONSOLE SUB HARNESS
3	W	TO CONSOLE SUB HARNESS
4	G	TO CONSOLE SUB HARNESS
5	–	TO CONSOLE SUB HARNESS
6	SHIELD	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	W	TO CONSOLE SUB HARNESS
9	BG	TO CONSOLE SUB HARNESS
10	W	TO CONSOLE SUB HARNESS
11	B	TO CONSOLE SUB HARNESS
12	SHIELD	TO CONSOLE SUB HARNESS
13	B	TO CONSOLE SUB HARNESS
14	LG	TO CONSOLE SUB HARNESS
15	W	TO CONSOLE SUB HARNESS
16	G	TO CONSOLE SUB HARNESS
17	R	TO CONSOLE SUB HARNESS
18	B	TO CONSOLE SUB HARNESS
19	W	TO CONSOLE SUB HARNESS
20	B	TO CONSOLE SUB HARNESS
21	B	TO CONSOLE SUB HARNESS
22	R	TO CONSOLE SUB HARNESS
23	B	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS
25	SHIELD	TO CONSOLE SUB HARNESS
26	R	TO CONSOLE SUB HARNESS
27	B	TO CONSOLE SUB HARNESS
28	W	TO CONSOLE SUB HARNESS
29	L	TO CONSOLE SUB HARNESS
30	G	TO CONSOLE SUB HARNESS
31	R	TO CONSOLE SUB HARNESS
32	SHIELD	TO CONSOLE SUB HARNESS
33	W	TO CONSOLE SUB HARNESS
34	B	TO CONSOLE SUB HARNESS
35	P	TO CONSOLE SUB HARNESS
36	G	TO CONSOLE SUB HARNESS
37	R	TO CONSOLE SUB HARNESS
38	SHIELD	TO CONSOLE SUB HARNESS

39	W	TO CONSOLE SUB HARNESS
40	B	TO CONSOLE SUB HARNESS

Connector No.	M259
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SUB HARNESS
2	SHIELD	TO CONSOLE SUB HARNESS
3	B	TO CONSOLE SUB HARNESS
4	W	TO CONSOLE SUB HARNESS
5	BG	TO CONSOLE SUB HARNESS
6	G	TO CONSOLE SUB HARNESS
7	R	TO CONSOLE SUB HARNESS
8	SHIELD	TO CONSOLE SUB HARNESS
9	W	TO CONSOLE SUB HARNESS
10	B	TO CONSOLE SUB HARNESS
11	V	TO CONSOLE SUB HARNESS
12	G	TO CONSOLE SUB HARNESS
13	R	TO CONSOLE SUB HARNESS
14	SHIELD	TO CONSOLE SUB HARNESS
15	W	TO CONSOLE SUB HARNESS
16	B	TO CONSOLE SUB HARNESS
17	SHIELD	TO CONSOLE SUB HARNESS
18	R	TO CONSOLE SUB HARNESS
19	B	TO CONSOLE SUB HARNESS
20	W	TO CONSOLE SUB HARNESS
21	L	TO CONSOLE SUB HARNESS
22	G	TO CONSOLE SUB HARNESS
23	R	TO CONSOLE SUB HARNESS
24	SHIELD	TO CONSOLE SUB HARNESS
25	W	TO CONSOLE SUB HARNESS
26	B	TO CONSOLE SUB HARNESS
27	P	TO CONSOLE SUB HARNESS
28	G	TO CONSOLE SUB HARNESS
29	R	TO CONSOLE SUB HARNESS
30	SHIELD	TO CONSOLE SUB HARNESS
31	W	TO CONSOLE SUB HARNESS
32	B	TO CONSOLE SUB HARNESS

Connector No.	M269
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	BG	TO CONSOLE SWITCH SUB HARNESS
10	G	TO CONSOLE SWITCH SUB HARNESS
11	R	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	W	TO CONSOLE SWITCH SUB HARNESS
14	B	TO CONSOLE SWITCH SUB HARNESS
15	V	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	SHIELD	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	–	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	R	TO CONSOLE SWITCH SUB HARNESS
27	B	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	P	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M500
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1 PP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	SHIELD	TO MAIN HARNESS

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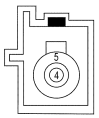
BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	M501
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU (B)
Connector Color	GREEN

H.S.



Terminal No.	Color of Wire	Signal Name
4	B	SAT ANT
5	SHIELD	SAT SHIELD

Connector No.	M502
Connector Name	ANTENNA BASE
Connector Type	GT17VSN-6DP-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT +B
2	B	ANT MAIN
3	SHIELD	SHIELD

Connector No.	M503
Connector Name	WIRE TO WIRE
Connector Type	GT13S-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

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Connector No.	M504
Connector Name	WIRE TO WIRE
Connector Type	GT13S-1S-HU
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

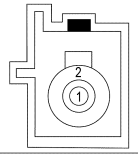
Connector No.	M505
Connector Name	GLASS ANTENNA (FM SUB)
Connector Type	P01FB-A
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	ANT SUB

Connector No.	M509
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU (B)
Connector Color	GREEN

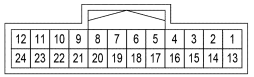
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

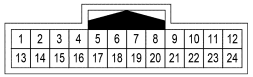
H.S.



Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	W	TO MAIN HARNESS
4	Y/R	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	Y	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	W	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	R/G	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	SHIELD	TO MAIN HARNESS
16	P	TO MAIN HARNESS
17	BG	TO MAIN HARNESS
18	–	TO MAIN HARNESS
19	V	TO MAIN HARNESS
20	W	TO MAIN HARNESS
21	SB	TO MAIN HARNESS
22	L	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	B	TO MAIN HARNESS

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO ROOM LAMP HARNESS
2	B	TO ROOM LAMP HARNESS
3	BG	TO ROOM LAMP HARNESS
4	P	TO ROOM LAMP HARNESS
5	SHIELD	TO ROOM LAMP HARNESS
6	B	TO ROOM LAMP HARNESS
7	W	TO ROOM LAMP HARNESS
8	B	TO ROOM LAMP HARNESS
9	B	TO ROOM LAMP HARNESS
10	W	TO ROOM LAMP HARNESS
11	R	TO ROOM LAMP HARNESS
12	G	TO ROOM LAMP HARNESS
13	–	TO ROOM LAMP HARNESS
14	–	TO ROOM LAMP HARNESS
15	L	TO ROOM LAMP HARNESS
16	SB	TO ROOM LAMP HARNESS
17	–	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	–	TO ROOM LAMP HARNESS
20	–	TO ROOM LAMP HARNESS
21	SB	TO ROOM LAMP HARNESS
22	L	TO ROOM LAMP HARNESS
23	BR	TO ROOM LAMP HARNESS
24	V	TO ROOM LAMP HARNESS

BOSE AUDIO SYSTEM CONNECTORS - WITH NAVIGATION AND SURROUND SOUND SYSTEM

Connector No.	R101
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	V	TO ROOM LAMP HARNESS
2	R	TO ROOM LAMP HARNESS
3	G	TO ROOM LAMP HARNESS
4	P	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	L	TO ROOM LAMP HARNESS
7	R	TO ROOM LAMP HARNESS
8	B	TO ROOM LAMP HARNESS
9	B	TO ROOM LAMP HARNESS
10	W	TO ROOM LAMP HARNESS
11	R	TO ROOM LAMP HARNESS
12	G	TO ROOM LAMP HARNESS
13	–	TO ROOM LAMP HARNESS
14	–	TO ROOM LAMP HARNESS
15	L	TO ROOM LAMP HARNESS
16	SB	TO ROOM LAMP HARNESS
17	–	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	–	TO ROOM LAMP HARNESS
20	–	TO ROOM LAMP HARNESS
21	–	TO ROOM LAMP HARNESS
22	–	TO ROOM LAMP HARNESS
23	BR	TO ROOM LAMP HARNESS
24	L	TO ROOM LAMP HARNESS

Connector No.	R105
Connector Name	TELEMATICS SWITCH
Connector Type	TH08FW-NH
Connector Color	WHITE

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	V	ACC
2	G	LED A
3	P	ECALL SW
4	–	–
5	W	ILL
6	B	ILL CONT
7	R	GROUND
8	–	–

Connector No.	R109
Connector Name	MICROPHONE
Connector Type	TK04FW
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	R	MIC VCC
2	–	–
3	GR	MIC GND
4	L	MIC SIG

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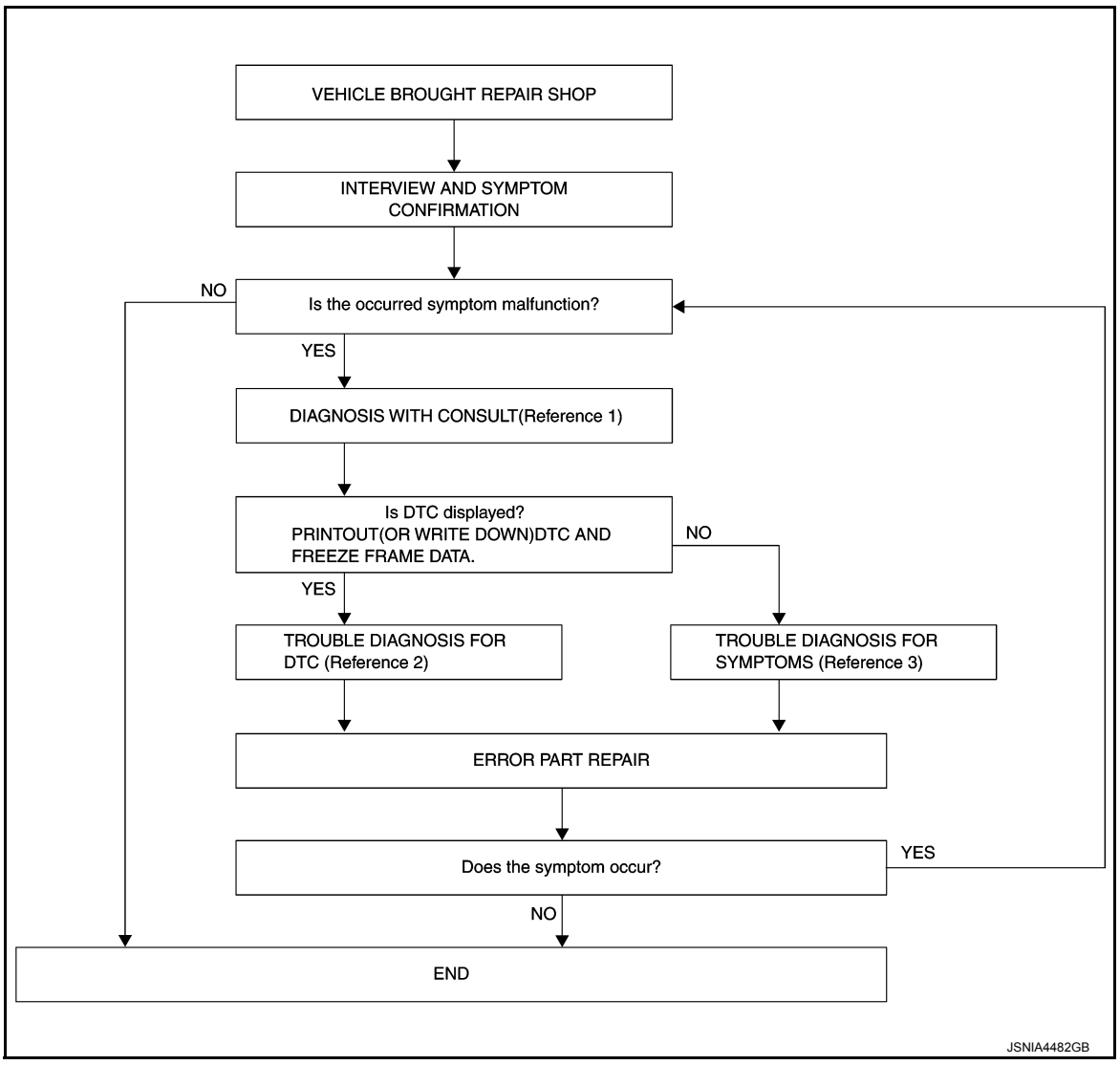
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000012850025

OVERALL SEQUENCE



- Reference 1··· Refer to AV-955, "CONSULT Function".
- Reference 2··· Refer to AV-958, "DTC Index".
- Reference 3··· Refer to AV-1070, "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

1. Connect CONSULT and perform a self-diagnosis for “TELEMATICS”. Refer to AV-955, "CONSULT Function".
2. When DTC is detected, follow the instructions below:

- Record DTC and Freeze Frame Data.

Is DTC displayed?

YES >> GO TO 4.
NO >> GO TO 5.

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-958, "DTC Index".

>> GO TO 6.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the symptom table. Refer to AV-1070, "Symptom Table".

>> GO TO 6.

5. ERROR PART REPAIR

1. Repair or replace the identified malfunctioning parts.
2. Perform a self-diagnosis for “TELEMATICS” with CONSULT.
3. Check that the symptom does not occur.

Does the symptom occur?

YES >> GO TO 1.
NO >> Inspection End.

INSPECTION AND ADJUSTMENT
ADDITIONAL SERVICE WHEN REPLACING TCU

ADDITIONAL SERVICE WHEN REPLACING TCU : Description

INFOID:0000000012850026

When TCU is replaced, TCU activation operation is required.

Preparation before activation operation
- Subscribe to telematics service
- Preregister user ID and password (can be performed from owner homepage)

ADDITIONAL SERVICE WHEN REPLACING TCU : Work Procedure

INFOID:0000000012850027

1.TURN TCU OFF

CONSULT Work support
1. Select TCU ACTIVATE SETTING, then Start.
2. Select Start, then select Off to turn OFF the TCU.
3. Select End to return to the Work support Test Item screen.
4. Select TCU ACTIVATE SETTING, then Start.
5. Select Start, and confirm that Off is displayed in the Current status field.
6. Select End to return to the Work support Test Item screen.

>> GO TO 2.

2.SAVE VIN DATA

NOTE:
If the VIN data cannot be saved, it will have to be entered manually later in this procedure.

CONSULT Work support
1. Select SAVE VIN DATA, then Start.
2. Select Start to save the VIN data.
3. Select End to return to the Work support Test Item screen.

>> GO TO 3.

3.REMOVE TCU

Remove the TCU. Refer to AV-1074, "Removal and Installation".

>> GO TO 4.

4.RECORD TCU PART LABEL INFORMATION

NOTICE:
Steps 4 and 5 must be performed after the original TCU has been removed from the vehicle and before the replacement TCU is installed.

Collect, record and have the following information ready:
- VIN.
- International Mobile Equipment Identity (IMEI) number of the original TCU. Located on the TCU part label.
- International Mobile Equipment Identity (IMEI) number of the replacement TCU. Located on the TCU part label.
- Serial number of the replacement TCU. Located on the TCU part label.

>> GO TO 5.

5. CONTACT INFINITI CONNECTION CALL CENTER

NOTICE:
This step must be performed to activate the replacement TCU. If this step is not performed, the TCU will not be able to communicate with the INFINITI CONNECTION Data Center.

Call the INFINITI CONNECTION Call Center at 1-800-334-7858, press “4” and listen for additional applicable INFINITI retailer prompts. You will be asked for your name, retailer name, and the information collected in step 4. The call agent will deactivate the original TCU and activate the replacement TCU.

>> GO TO 6.

6. INSTALL TCU

Install the TCU. Refer to AV-1074, "Removal and Installation".

>> GO TO 7.

7. VIN DATA

Was the VIN data saved during step 2?

YES >> GO TO 8.
NO >> GO TO 9.

8. WRITE VIN DATA

CONSULT Work support
1. Select WRITE VIN DATA, then Start.
2. Select Start.
3. After the data writing has been completed, select End to return to the Work support Test Item screen.

>> GO TO 10.

9. MANUALLY ENTER VIN DATA

CONSULT Work support
1. Select VIN REGISTRATION.
2. Enter the VIN number in the VIN (1ST TIME) field.
3. Enter the VIN number in the VIN (2ND TIME) field.
4. Select Start.
5. After the VIN registration has been completed, select End to return to the Work support Test Item screen.

>> GO TO 10.

10. TURN TCU ON

CONSULT Work support
1. Select TCU ACTIVATE SETTING, then Start.
2. Select Start, then select On to turn ON the TCU.
3. Select End to return to the Work support Test Item screen.
4. Select TCU ACTIVATE SETTING, then Start.
5. Select Start, and confirm that On is displayed in the Current status field.

>> WORK END.

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

DTC Logic

INFOID:0000000012850028

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1000]	TCU is not transmitting or receiving CAN communication signal for 2 seconds or more.	CAN communication system.

Diagnosis Procedure

INFOID:0000000012850029

1.PERFORM SELF DIAGNOSTIC RESULT

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Perform Self Diagnostic Result for TELEMATICS.

Is CAN COMM CIRCUIT displayed?

YES >> Refer to LAN-28, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-50, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:0000000012850030

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace TCU if malfunction occurs constantly. Refer to AV-1074, "Removal and Installation".

U1A00 TCU

DTC Logic

INFOID:0000000012850031

CONSULT Display	DTC Detection Condition	Possible Cause
ACC NO CONN [U1A00]	No input of ACC signal	• ACC power circuit. • TCU.

Diagnosis Procedure

INFOID:0000000012850032

Regarding Wiring Diagram information, refer to AV-959, "Wiring Diagram" (Bose Audio w/Navi w/o Surround) or AV-1003, "Wiring Diagram" (Bose Audio w/Navi and Surround).

1.CHECK ACC POWER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect TCU connector M47.
3. Check voltage between TCU connector and ground.

TCU		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M47	3	—	Ignition switch: ACC	Battery voltage

Is the inspection result normal?

YES >> Replace TCU. Refer to AV-1074, "Removal and Installation".
NO >> Repair or replace harness or connectors.

U1A01 TCU

DTC Logic

INFOID:0000000012850033

CONSULT Display	DTC Detection Condition	Possible Cause
INTERNAL ERROR (TCU) [U1A01]	Malfunction in TCU is detected.	Replace TCU if malfunction occurs constantly. Refer to AV-1074, "Removal and Installation".

U1A02 TCU

DTC Logic

INFOID:0000000012850034

CONSULT Display	DTC Detection Condition	Possible Cause
TEL COMMUNICATION MODULE [U1A02]	Malfunction in communication module of TCU is detected.	Replace TCU if malfunction occurs constantly. Refer to AV-1074, "Removal and Installation".

U1A03 TCU

DTC Logic

INFOID:0000000012850035

CONSULT Display	DTC Detection Condition	Possible Cause
SIM CARD [U1A03]	SIM card not inserted or unable to read.	• Check SIM card installation. • Replace TCU if malfunction occurs constantly. Refer to AV-1074, "Removal and Installation".

U1A04 TCU

DTC Logic

INFOID:0000000012850036

CONSULT Display	DTC Detection Condition	Possible Cause
VIN UNFINISHED [U1A04]	Unwritten VIN number is detected.	• Write VIN number using CONSULT. Refer to AV-1050, "ADDITIONAL SERVICE WHEN REPLACING TCU : Work Procedure". • Replace TCU if malfunction occurs constantly. Refer to AV-1074, "Removal and Installation".

U1A05 TCU

DTC Logic

INFOID:0000000012850037

CONSULT Display	DTC Detection Condition	Possible Cause
USB COMM [U1A05]	Malfunction in USB communication between TCU and AV control unit.	• Harness or connectors. • Replace TCU if malfunction occurs constantly. Refer to AV-1074, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012850038

Regarding Wiring Diagram information, refer to AV-959, "Wiring Diagram" (Bose Audio w/Navi w/o Surround) or AV-1003, "Wiring Diagram" (Bose Audio w/Navi and Surround).

1.CHECK USB CIRCUITS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect TCU connector M134 and AV control unit connector M136.
3. Check continuity between TCU connector M134 and AV control unit connector M136.

TCU		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M134	41	M136	152	Yes
	42		151	
	46		147	
	47		146	
	48		145	
	49		160	
	55		154	
	56		153	
	57		161	

4. Check the continuity between TCU connector M134 and ground.

TCU		Ground	Continuity
Connector	Terminal		
M134	41	—	No
	46		
	47		
	48		
	49		
	56		

Is the inspection result normal?

YES >> Replace TCU. Refer to AV-1074, "Removal and Installation".
NO >> Repair or replace harness or connectors.

U1A07 TEL ANTENNA

DTC Logic

INFOID:0000000012850039

CONSULT Display	DTC Detection Condition	Possible Cause
TEL ANTENNA SHORT [U1A07]	TEL antenna short circuit.	• TEL antenna harness or connector. • Replace TEL antenna if malfunction occurs constantly. Refer to AV-1077, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012850040

Regarding Wiring Diagram information, refer to AV-959, "Wiring Diagram" (Bose Audio w/Navi w/o Surround) or AV-1003, "Wiring Diagram" (Bose Audio w/Navi and Surround).

1.CHECK TEL ANTENNA CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect TEL antenna connector.
3. Check continuity between TEL antenna connector M135 terminals.

TEL antenna connector M135 terminals		Continuity
58	59	No

Is the inspection result normal?

YES >> Replace TCU. Refer to AV-1074, "Removal and Installation".
NO >> Replace TEL antenna. Refer to AV-1077, "Removal and Installation".

U1A08 TEL ANTENNA

DTC Logic

INFOID:0000000012850041

CONSULT Display	DTC Detection Condition	Possible Cause
TEL ANTENNA NO CONN [U1A08]	No TEL antenna connection.	• TEL antenna. • Replace TCU if malfunction occurs constantly. Refer to AV-1074, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012850042

Regarding Wiring Diagram information, refer to AV-959, "Wiring Diagram" (Bose Audio w/Navi w/o Surround) or AV-1003, "Wiring Diagram" (Bose Audio w/Navi and Surround).

1.CHECK AV CONTROL UNIT VOLTAGE

1. Turn ignition switch ON.
2. Check voltage between TEL antenna connector M135 and ground.

TEL antenna		Ground	Reference value
(+)		(−)	
Connector	Terminal		
M135	58	—	2.8 V

Is the inspection result normal?

YES >> Replace TEL antenna. Refer to AV-1077, "Removal and Installation".
NO >> Replace TCU. Refer to AV-1074, "Removal and Installation".

U1A0B MICROPHONE

DTC Logic

INFOID:0000000012850043

CONSULT Display	DTC Detection Condition	Possible Cause
MIC IN CONN [U1A0B]	No input of microphone circuits.	• Harness or connectors. • Microphone. • Replace TCU if malfunction occurs constantly. Refer to AV-1074, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012850044

Regarding Wiring Diagram information, refer to AV-959, "Wiring Diagram" (Bose Audio w/Navi w/o Surround) or AV-1003, "Wiring Diagram" (Bose Audio w/Navi and Surround).

1.CHECK MIC IN SIGNAL CIRCUIT AND MIC VCC CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect TCU connector M47 and microphone connector.
3. Check continuity between TCU connector M47 and microphone connector R109.

TCU		Microphone		Continuity
Connector	Terminal	Connector	Terminal	
M47	18	R109	1	Yes
	19		4	
	20		3	

4. Check the continuity between TCU connector M47 and ground.

TCU		Ground	Continuity
Connector	Terminal		
M47	18	—	No
	19		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK MIC VCC VOLTAGE

1. Connect TCU connector M47 and microphone connector.
2. Turn ignition switch ON.
3. Check voltage between terminals of TCU connector M47.

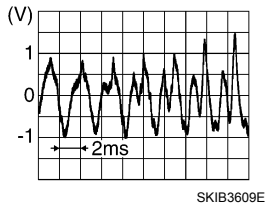
TCU connector M47		Voltage (Approx.)
(+)	(−)	
Terminal	Terminal	
18	20	5.0 V

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace TCU. Refer to AV-1074, "Removal and Installation".

3.CHECK MIC IN SIGNAL

Check signal between terminals of TCU connector M47.

TCU connector M47		Condition	Reference value
(+)	(−)		
Terminal	Terminal		
19	20	Speak into microphone.	 SKIB3609E

Is the inspection result normal?

YES >> Replace TCU. Refer to AV-1074, "Removal and Installation".
NO >> Replace microphone. Refer to AV-1075, "Removal and Installation".

U1A0C MICROPHONE

DTC Logic

INFOID:0000000012850045

CONSULT Display	DTC Detection Condition	Possible Cause
MIC OUT CONN [U1A0C]	No output of microphone circuits.	• Harness or connectors. • Microphone. • Replace TCU if malfunction occurs constantly. Refer to AV-1074, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012850046

Regarding Wiring Diagram information, refer to AV-959, "Wiring Diagram" (Bose Audio w/Navi w/o Surround) or AV-1003, "Wiring Diagram" (Bose Audio w/Navi and Surround).

1.CHECK DCM MIC SIGNAL CIRCUIT AND DCM MIC VCC CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect TCU connector M47 and AV control unit connector.
3. Check continuity between TCU connector M47 and AV control unit connector.

Bose Audio w/Navi w/o Surround

TCU		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M47	21	M124	60	Yes
	22		75	
	23		59	

Bose Audio w/Navi and Surround

TCU		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M47	21	M163	60	Yes
	22		75	
	23		59	

4. Check the continuity between TCU connector M47 and ground.

TCU		Ground	Continuity
Connector	Terminal		
M47	21	—	No
	22		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK DCM MIC VCC VOLTAGE

1. Connect TCU connector M47 and AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit connector terminals.

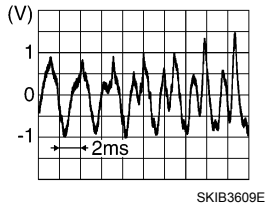
AV control unit connector		Voltage (Approx.)
(+)	(–)	
Terminal	Terminal	
60	59	5.0 V

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace TCU. Refer to AV-1074, "Removal and Installation".

3.CHECK DCM MIC SIGNAL

Check signal between AV control unit connector.

AV control unit connector		Condition	Reference value
(+)	(–)		
Terminal	Terminal		
75	59	Speak into microphone.	

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-1072, "Removal and Installation".
NO >> Replace TCU. Refer to AV-1074, "Removal and Installation".

U1A0E TELEMATICS SWITCH

DTC Logic

INFOID:0000000012850047

CONSULT Display	DTC Detection Condition	Possible Cause
SOS SWITCH ON STUCK [U1A0E]	ECALL SW short circuit.	• Harness or connectors. • Telematics switch. • Replace TCU if malfunction occurs constantly. Refer to AV-1074, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012850048

Regarding Wiring Diagram information, refer to AV-959, "Wiring Diagram" (Bose Audio w/Navi w/o Surround) or AV-1003, "Wiring Diagram" (Bose Audio w/Navi and Surround).

1.CHECK ECALL SW CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect TCU connector M47 and telematics switch connector.
3. Check the continuity between TCU connector M47 and ground.

TCU		Ground	Continuity
Connector	Terminal		
M47	34	—	No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK TELEMATICS SWITCH

Check continuity between telematics switch terminals.

Telematics switch		Condition	Continuity
Terminal	Terminal		
3	7	Switch pressed	Yes
		Switch released	No

Is the inspection result normal?

YES >> Replace TCU. Refer to AV-1074, "Removal and Installation".
NO >> Replace telematics switch.

U1A0F TELEMATICS SWITCH

DTC Logic

INFOID:0000000012850049

CONSULT Display	DTC Detection Condition	Possible Cause
SOS SWITCH NO CONN [U1A0F]	LED A open circuit.	• Harness or connectors. • Telematics switch. • Replace TCU if malfunction occurs constantly. Refer to AV-1074, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012850050

Regarding Wiring Diagram information, refer to AV-959, "Wiring Diagram" (Bose Audio w/Navi w/o Surround) or AV-1003, "Wiring Diagram" (Bose Audio w/Navi and Surround).

1.CHECK LED A CIRCUIT CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect TCU connector M47 and telematics switch connector.
3. Check continuity between TCU connector M47 and telematics switch connector R105.

TCU		Telematics switch		Continuity
Connector	Terminal	Connector	Terminal	
M47	35	R105	2	Yes

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2.CHECK TELEMATICS SWITCH

Check continuity between telematics switch terminals.

Telematics switch		Condition	Continuity
Terminal	Terminal		
2	7	Switch pressed	Yes
		Switch released	No

Is the inspection result normal?

YES >> Replace TCU. Refer to AV-1074, "Removal and Installation".
NO >> Replace telematics switch.

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000012850051

Regarding Wiring Diagram information, refer to AV-959, "Wiring Diagram" (Bose Audio w/Navi w/o Surround) or AV-1003, "Wiring Diagram" (Bose Audio w/Navi and Surround).

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
1	Battery power supply	15 (15A)
3	ACC power supply	65 (10A)
4	Ignition signal	29 (5A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect TCU connector M47.
3. Check voltage between TCU connector and ground.

TCU		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M47	1	—	Ignition switch: OFF	Battery voltage
	3		Ignition switch: ACC	
	4		Ignition switch: ON	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between TCU connector M47 and ground.

TCU		Ground	Continuity
Connector	Terminal		
M47	2	—	Yes
	7		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

SYMPTOM DIAGNOSIS

TELEMATICS SYSTEM

Symptom Table

INFOID:0000000012850052

TELEMATICS SYSTEM

Symptom	Display icon	Error message	Possible cause
Telematics operation not available.	—	Telematics unit is not connected.	Perform self-diagnosis with CONSULT. Refer to AV-955, "CONSULT Function".
		The connection to the center failed.	Check ON/OFF status of TCU using the data monitor of CONSULT. • Replace TCU if it is ON. Refer to AV-1074, "Removal and Installation". • Turn it ON again if it is OFF. Replace TCU if ON is switched to OFF. Refer to AV-1074, "Removal and Installation".
		No service.	Use a cellular phone to check reception. • If service is available, replace TCU or TEL antenna. - For TCU replacement, refer to AV-1074, "Removal and Installation". - For TEL antenna replacement, refer to AV-1077, "Removal and Installation". • If the service is not available, move the vehicle to the position where service is available and perform the operation again.
		Service inoperative due to poor reception.	Use a cellular phone to check reception. • If it is OK, there may be a cause at the INFINITI CONNECTION Data Center. Check connection after a short period of time. If there is no problem at the INFINITI CONNECTION Data Center, replace TCU or TEL antenna. - For TCU replacement, refer to AV-1074, "Removal and Installation". - For TEL antenna replacement, refer to AV-1077, "Removal and Installation". • If it is NG, check connection again after a short period of time.
		Service not registered.	Check input of user ID and password from the navigation setting screen. If malfunction such as input or no memory despite input is detected, replace AV control unit. Refer to AV-1072, "Removal and Installation".
		TCU line is used.	Check connection after a short period of time. Replace TCU if it is frequently displayed. Refer to AV-1074, "Removal and Installation".
		The connection to the center failed.	There may be a cause at the INFINITI CONNECTION Data Center. Check connection after a short period of time. If there is no problem at the INFINITI CONNECTION Data Center, replace TCU or TEL antenna. • For TCU replacement, refer to AV-1074, "Removal and Installation". • For TEL antenna replacement, refer to AV-1077, "Removal and Installation".

NORMAL OPERATING CONDITION

Description

INFOID:0000000012850053

NOTE:
For Telematics system operation detail information, refer to Navigation system Owner's Manual.

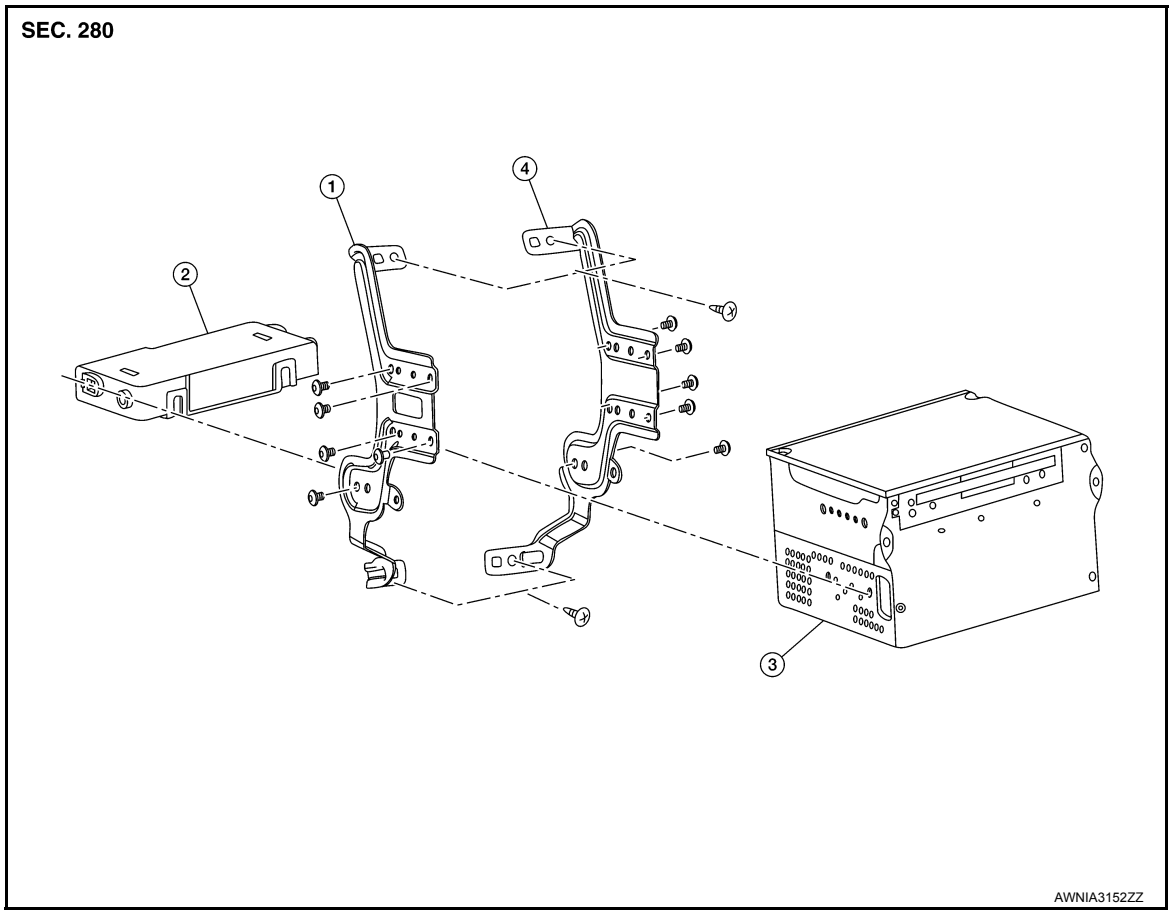
Symptom	Possible cause	Possible solution
The system cannot connect to the Infiniti CONNECT Data Center.	A subscription for the CONNECT service has not been established.	Sign up for a subscription to the CONNECT service. For details about subscriptions, contact an INFINITI retailer or visit the INFINITI CONNECT Data Center website.
	The user ID and password are not entered.	Enter the user ID and password.
	The communication line is busy.	Try again after a short period of time.
	The vehicle is in a location where reception is difficult.	When the vehicle moves to an area where radio waves can be transmitted sufficiently, communication will be restored. When the icon on the display shows that the vehicle is inside the communication area, the system can be used.
	TCU reception is insufficient.	When the vehicle moves to an area where radio waves can be transmitted sufficiently, communication will be restored. When the icon on the display shows that the vehicle is inside the communication area, the system can be used.
Some of the items that are displayed on the menu screen cannot be selected.	The vehicle is being driven and some menu items are disabled.	The vehicle is being driven. Stop the vehicle in a safe location and apply the parking brake before operating the functions.
Some parts of the screen are not displayed		Operate the system after stopping the vehicle in a safe location and applying the parking brake.
The system does not announce information.	The volume level is set to the minimum.	Adjust the volume level by operating the VOL switches located on the control panel or on the steering switch while the system is announcing information.

REMOVAL AND INSTALLATION

AV CONTROL UNIT

Exploded View

INFOID:0000000012850054



1. AV control unit bracket (LH)
2. A/C auto amp.
3. AV control unit
4. AV control unit bracket (RH)

Removal and Installation

INFOID:0000000012850055

REMOVAL

CAUTION:

- **Remove battery terminal and AV control unit after a lapse of 30 seconds or more after turning the ignition switch OFF.**
- **Before replacing AV control unit, perform "READ CONFIGURATION" to save current vehicle specification. Refer to AV-77, "CONFIGURATION (AV CONTROL UNIT) : Description".**

NOTE:

After the ignition switch is turned OFF, the AV control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

1. Disconnect the negative battery terminal. Refer to PG-147, "Removal and Installation".
2. Remove cluster lid C upper. Refer to IP-23, "CLUSTER LID C UPPER : Removal and Installation".
3. Remove the screws, then pull out the AV control unit.
4. Disconnect the harness connectors from the AV control unit and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **When replacing AV control unit, perform "WRITE CONFIGURATION". Refer to AV-77, "CONFIGURATION (AV CONTROL UNIT) : Description".**

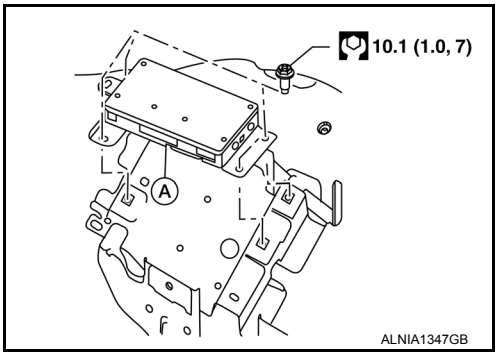
TCU

Removal and Installation

INFOID:0000000012850057

REMOVAL

1. Check the SIM ID. Refer to AV-955, "CONSULT Function".
2. Remove the shift selector. Refer to TM-197, "Removal and Installation".
3. Disconnect the harness connectors from TCU.
4. Remove the TCU screws, then remove TCU (A) with the bracket attached.
5. Remove the bracket screw and the bracket from TCU (A).



NOTE:
If it is difficult to remove the harness clip and the antenna feeder clip, remove the screw first and pull TCU forward together with the bracket. Be careful not to apply a load to the harness.

INSTALLATION

Installation is in the reverse order of removal.

NOTE:

- When TCU is replaced, perform activation. Refer to AV-1050, "ADDITIONAL SERVICE WHEN REPLACING TCU : Description".
- When replacing the TCU, it is necessary to contact the communications service provider to activate the new TCU. Please refer to the appropriate INFINITI Technical Service Bulletin for the correct TCU activation procedure and communications provider contact information.

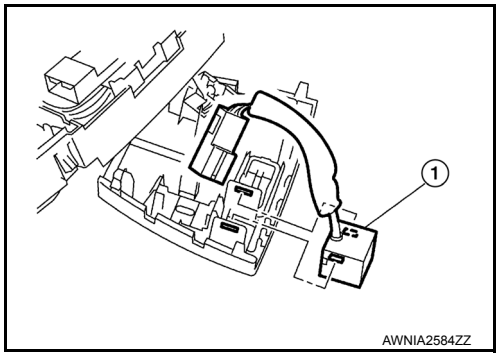
MICROPHONE

Removal and Installation

INFOID:0000000012850058

REMOVAL

1. Remove the front room/map lamp assembly. Refer to INL-64, "Removal and Installation".
2. Release the pawls, then remove the microphone (1) from the front room/map lamp assembly.
   CAUTION:
   Carefully handle the pawls that retain the microphone to avoid damaging.



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

Check the microphone for looseness after installation.

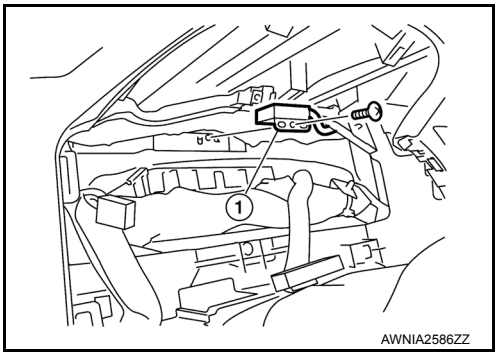
GPS ANTENNA

Removal and Installation

INFOID:0000000012850059

REMOVAL

1. Remove combination meter. Refer to MWI-94, "Removal and Installation".
2. Disconnect harness connector from AV control unit.
3. Remove harness feeder clips.
4. Remove GPS antenna screw and GPS antenna (1).



INSTALLATION

Installation is in the reverse order of removal.

TEL ANTENNA

Removal and Installation

INFOID:0000000012850060

REMOVAL

1. Remove combination meter. Refer to MWI-94, "Removal and Installation".
2. Remove center console assembly. Refer to IP-18, "Removal and Installation".
3. Disconnect harness connector from TCU.
4. Remove screws and TEL antenna.

INSTALLATION

Installation is in the reverse order of removal.