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AUDIO, VISUAL & NAVIGATION SYSTEM

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PRECAUTION

PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never 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:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with
 a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing
 serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

Precautions for Removing Battery Terminal

 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
 NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

BATTERY

After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
 NOTE:

The removal of 12V battery may cause a DTC detection error.

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[BOSE AUDIO WITH NAVIGATION]

Precaution for Trouble Diagnosis

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AV COMMUNICATION SYSTEM

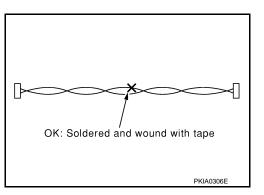
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

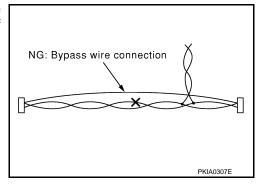
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AV COMMUNICATION SYSTEM

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



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



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PREPARATION

< PREPARATION >

[BOSE AUDIO WITH NAVIGATION]

PREPARATION

PREPARATION

Commercial Service Tools

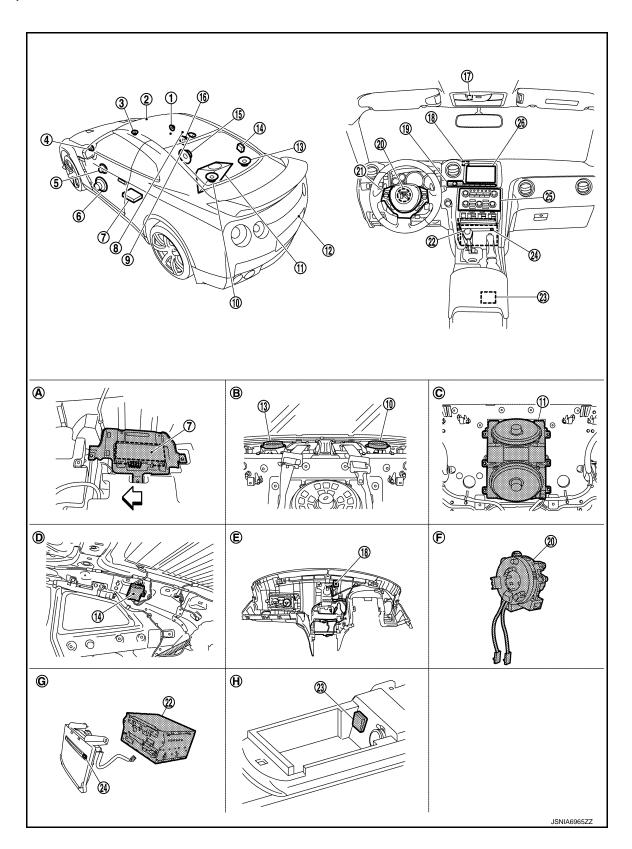
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Tool name		Description
Power tool	PBIC0191E	Loosening screws

SYSTEM DESCRIPTION

MULTI AV SYSTEM

Component Parts Location



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MULTI AV SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

1.	Tweeter RH	2.	Front microphone (Active noise control system)	3.	Center speaker
4.	Tweeter LH	5.	Front door squawker LH	6.	Front door speaker LH
7.	BOSE amp.	8.	Rear microphone (Active noise control system)	9.	Satellite radio antenna
10.	Rear speaker LH	11.	Woofer	12.	Rear view camera
13.	Rear speaker RH	14.	Antenna amp.	15.	Front door speaker RH
16.	Front door squawker RH	17.	Microphone	18.	GPS antenna
19.	Multifunction switch	20.	Steering angle sensor	21.	Steering switch
22.	AV control unit	23.	USB connector	24.	Disk eject switch
25.	Preset switch	26.	Display unit		
A.	Under front LH seat	B.	Inside rear parcel	C.	Inside rear seat back
D.	Inside rear pillar finisher RH	E.	Back of instrument panel	F.	Spiral cable remove condition
G.	Bottom side of cluster lid C	H.	Inside console box		
\Diamond	: Front of vehicle				

Component Description

INFOID:0000000011490640

Part name	Description
AV control unit	 Integrates hard disk drive (HDD) allowing map data to be stored. It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit. The AV control unit includes the audio, hands-free phone, voice control, navigation, USB connection, DVD play function, multifunction meter function and vehicle information functions. It is connected to ECM and combination meter via CAN communication to obtain necessary information for the vehicle information function. It is connected to low tire pressure warning control unit with the CAN communication line to obtain necessary information for the tire pressure status. It inputs the illumination signals that are required for the display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake). Update of map data is performed with the DVD-ROM.
Display unit	 Display image is controlled by the serial communication from AV control unit. RGB digital image signal is input from AV control unit. Composite image signal is input from AV control unit. Touch panel function can be operated for each system by touching a display directly. Camera image signal is input from rear view camera.
	Without active noise control system • It inputs the power supply (BOSE amp. ON signal) and audio signal from the AV control unit and outputs the audio signal to each speaker.
BOSE amp.	 With active noise control system BOSE amp. include active noise control system Generates an antiphase sound weakening interior engine booming noise, mixes the antiphase sound with a sound signal transmitted from the AV control unit, and transmits the mixed sound signal to each speaker. Input microphone signal transmitted from both front and rear microphone (for active noise control system).
Front door speaker	Outputs audio signal from BOSE amp.Outputs high and mid range sound.
Front door squawker	Outputs audio signal from BOSE amp.Outputs mid range sound.
Rear speaker	Outputs audio signal from BOSE amp.Outputs high and mid range sound.

MULTI AV SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

Part name	Description		
Tweeter	Outputs audio signal from BOSE amp.Outputs high range sound.		
Center speaker	Outputs audio signal from BOSE amp.Outputs mid range sounds.		
Woofer	Outputs audio signal from BOSE amp.Outputs low range sound.		
Front microphone (For active noise control system)	 Used for active noise control system Detects interior engine booming noise and transmits a sound signal to the BOSE amp. 		
Rear microphone (For active noise control system)	 Used for active noise control system Detects interior engine booming noise and transmits a sound signal to the BOSE amp. 		
Multifunction switch	 It can operate the multifunction meter, etc. It is connected to the preset switch with hardwire. The operation signal is transmitted to the AV control unit through the preset switch via AV communication. 		
Disk eject switch	It is connected to the preset switch with hardwire. The operation signal is transmitted to the AV control unit through the preset switch.		
Preset switch	 It is equipped with the switch where audio and air conditioner operations are integrated. It is connected with the AV control unit via AV communication. The operation signal is transmitted to the AV control unit via AV communication. The disk ejection operating signal is performed by hardwire. 		
Steering switch	 Operations for audio, hands-free phone and voice control, etc. are possible. Steering switch signal (operation signal) is output to AV control unit. 		
Microphone	 Used for hands-free phone operation and voice recognition. Microphone signal is transmitted to AV control unit. Power (Mic. VCC) is supplied from AV control unit. 		
GPS antenna	GPS signal is received and transmitted to AV control unit.		
Antenna amp.	 The radio signal received by glass antenna is amplified and sent to AV control unit. The power (antenna amp. ON signal) is supplied from the AV control unit. 		
USB connector	Image signal* and audio signal of USB input is transmitted to AV control unit.		
Satellite radio antenna	Satellite radio signal is received and transmitted to AV control unit.		
Rear view camera	Camera power supply is input from AV control unit. The image of vehicle rear view is transmitted to display unit.		

^{*:} Image signal can not be getting from iPod $^{\rm I\!R}$.

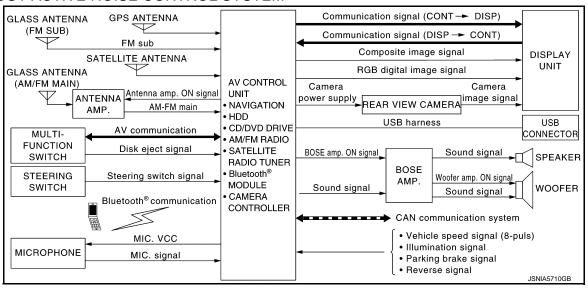
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System Diagram

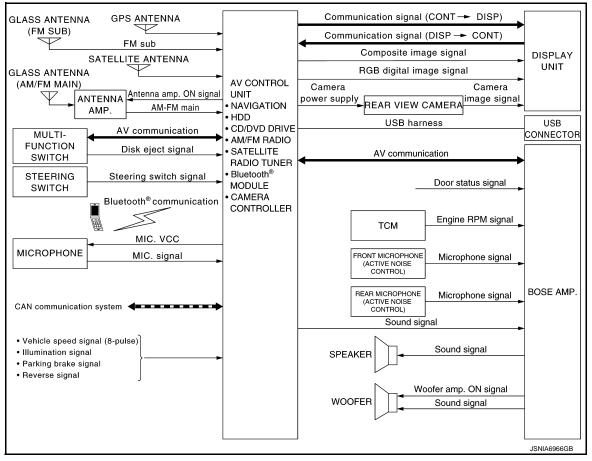
WITHOUT ACTIVE NOISE CONTROL SYSTEM



NOTE:

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

WITH ACTIVE NOISE CONTROL SYSTEM



NOTE:

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

[BOSE AUDIO WITH NAVIGATION]

System Description

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Multi AV system means that the following systems are integrated.

FUNCTION NAME				
Navigation system function				
Audio function				
Active noise control system function				
Hands-free phone function				
Voice recognition function				
Touch panel function				
Rear view monitor function				
Vehicle information function				
USB connection function				
DVD play function				
Multifunction meter system function				

COMMUNICATION SIGNAL

- AV control unit function by transmitting/receiving data one by one with each unit (slave unit) that configures
 them completely as a master unit by connecting between units that configure MULTI AV system with two AV
 communication lines (H, L).
- Two AV communication lines (H, L) adopt a twisted pair line that is resistant to noise.
- The AV control unit is connected with CAN communication line and receives data signals from the ECM, combination meter, TCM, AWD control unit, A/C auto amp., ABS actuator and electric unit (control unit), steering angle sensor and low tire pressure warning control unit. Using the obtained information, it computes values for the display items relating to the fuel consumption information, multifunction meter, and tire pressure information and displays them.
- AV control unit is connected with display and serial communication, and it transmits the required signal of display and display control and receives the response signal from display.
- The AV control unit, which has the vehicle setting function, transmits and receives data on vehicle setting condition via CAN communication with the BCM.

NAVIGATION SYSTEM FUNCTION

Description

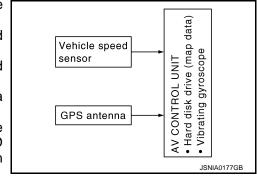
- The AV control unit controls navigation function while GPS tuner has built-in map data, GYRO (angle speed sensor), on the HDD (Hard Disk Drive).
- The AV control unit inputs operation signal with communication signal, through display (touch panel) and multifunction switch and steering switch.
- Guide sound is output to front speaker through BOSE amp. from AV control unit when operating navigation system.
- A vehicle position is calculated with the GYRO (angle speed sensor), vehicle sensor, signal from GPS satellite and map data stored on HDD (Hard Disk Drive), and transmits the map image signal (RGB digital image signal) to the display.

Position Detection Principle

The navigation system periodically calculates the current vehicle position according to the following three types of signals.

- Travel distance of the vehicle as determined by the vehicle speed sensor
- Vehicle turning angle determined by the gyroscope (angular speed sensor)
- The travel direction of the vehicle determined by the GPS antenna (GPS information)

The current position of the vehicle is then identified by comparing the calculated vehicle position with map data, which is stored in the HDD (Hard Disk Drive) (map-matching), and indicated on the screen with



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[BOSE AUDIO WITH NAVIGATION]

a current location mark. More accurate data is used by comparing position detection results from GPS to the map-matching.

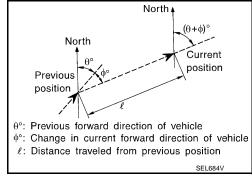
The current position is calculated by detecting the travel distance from the previous calculation point, and its direction change.

Travel distance

The travel distance is generated from the vehicle speed sensor input signal. The automatic distance correction function is adopted for preventing a miss-detection of the travel distance because of tire wear etc.

Travel direction

The gyroscope (angular velocity sensor) and GPS antenna (GPS information) generate the change of the travel direction. Both have advantages and disadvantages as per the following descriptions.

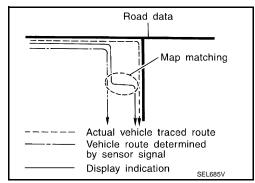


Туре	Advantage	Disadvantage	
Gyroscope (angular velocity sensor)	The turning angle is precisely detected.	Errors are accumulated when driving a long distance without stopping.	
GPS antenna (GPS information)	The travel direction (North/South/East/West) is detected.	The travel direction is not precisely detected when driving slowly.	

Input signals are prioritized in each situation. However, this order of priority may change in accordance with more detailed travel conditions so that the travel direction is detected more accurately.

Map-matching

Map-matching repositions the vehicle on the road map when a new location is judged to be more accurate. This is done by comparing the current vehicle position (calculated by the normal position detection method) from the map data stored in the HDD (Hard Disk Drive).

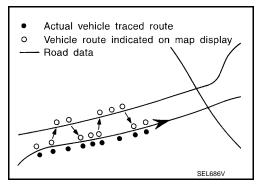


There is a possibility that the vehicle position may not be corrected in the following case, and when vehicle is driven over a certain distance or time in which GPS information is hard to receive. Correct manually the current location mark on the screen.

 In map-matching, several alternative routes are prepared and prioritized in addition to the road judged as currently driving on.

Therefore, due to errors in the distance and/or direction, an incorrect road may be prioritized, and the current location mark may be repositioned to the incorrect road.

If two roads are running in parallel, they are of the same priority. Therefore, the current location mark may appear on either of them alternately, depending on maneuvering of the steering wheel and configuration of the road, etc.



MULTI AV SYSTEM

< SYSTEM DESCRIPTION >

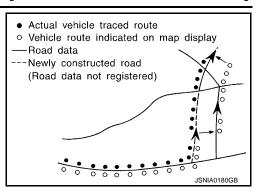
[BOSE AUDIO WITH NAVIGATION]

 Map-matching does not function correctly when road on which the vehicle is driving is new, etc. and not recorded in the map data. Also, map-matching does not function correctly when road pattern stored in the map data and the actual road pattern are different due to repair, etc.

Therefore, the map-matching function judges other road as a currently driving road if the road is not in the map, and displays the current location mark on it. Later, the current location mark may be repositioned to the road if the correct road is detected.

 Effective range for comparing the vehicle position and travel direction calculated by the distance and direction with the road data is limited. Therefore, correction by map-matching is not possible

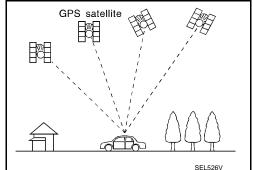
when there is an excessive gap between current vehicle position and the position on the map.



GPS (Global Positioning System)

GPS (Global Positioning System) is developed for and is controlled by the US Department of Defense. The system utilizes GPS satellites (NAVSTAR), transmitting out radio waves while flying on an orbit around the earth at an altitude of approximately 21,000 km (13,049 mile).

The receiver calculates the travel position in three dimensions (latitude/longitude/altitude) according to the time lag of the radio waves that four or more GPS satellites transmit (three-dimensional positioning). The GPS receiver calculates the travel position in two dimensions (latitude/longitude) with the previous altitude data if the GPS receiver receives only three radio waves (two-dimensional positioning). GPS position correction is not performed while stopping the vehicle.



Accuracy of the GPS will deteriorate under the following conditions:

- In two-dimensional positioning, GPS accuracy will deteriorate when altitude of the vehicle position changes.
- The position of GPS satellite affects GPS detection precision. The position detection may not be precisely performed.
- The position detection is not performed if GPS receiver does not receive radio waves from GPS satellites. (Inside a tunnel, parking in a building, under an elevated highway etc.) GPS receiver may not receive radio waves from GPS satellites if any object is placed on the GPS antenna.

NOTE:

- The detection result has an error of approximately 10 m (32.81 ft) even with a high-precision three dimensional positioning.
- There may be cases when the accuracy is lowered and radio waves are stopped intentionally because the GPS satellite signal is controlled by the US trace control center.

AUDIO FUNCTION

The audio system is equipped with the following functions. Each function is operated with multifunction switch, preset switch, touch panel, steering switch or audio recognition. Operation status of audio is indicated at display.

FUNCTION
AM/FM radio
Satellite radio
CD
Bluetooth [®] audio
Active noise control system

Operating Signal

Audio system operation can be performed with multifunction switch, preset switch, steering switch, touch panel function or voice recognition function.

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

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MULTI AV SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

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

Screen Display

Switching of display is performed with serial communication between display unit and AV control unit.

AM/FM Radio Mode

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

Satellite Radio Mode

- Satellite radio tuner is built into AV control unit.
- Audio wave (satellite radio) is received by satellite radio antenna, and it is input to AV control unit. AV control
 unit outputs audio signal to BOSE amp. The signal is also outputted from BOSE amp. to woofer and each
 speaker.

CD Mode

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

Bluetooth® Audio

- Bluetooth® audio function is built into AV control unit.
- When the Bluetooth[®] audio is connected to the portable audio equipped with the Bluetooth[®] communication compliant profile via Bluetooth[®] communication, it can be play the music data in the portable audio.
- A maximum of five Bluetooth[®] devices including the audio devices and cellular phones can be registered in the AV control unit.

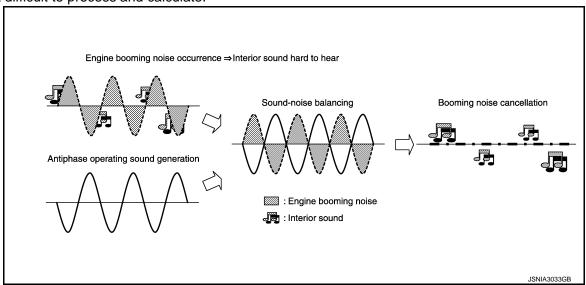
Active Noise Control System

- The active noise control system incorporates the BOSE Engine Harmonic Cancellation (EHC) technology.
- The active noise control system outputs an antiphase sound from the speakers (front door speaker, rear speaker and rear woofer) against unpleasant engine booming noise (2nd and/or 3rd engine rev at 700 5,000 rpm) and reduces sound pressure level by the interference with engine booming noise.
- The BOSÉ amp. receives an engine speed signal from TCM and receives microphone signals from the front and rear microphone.
- The BOSE amp. receives a door state signal. The active noise control system does not operate with any door open.
- Based on signals detected by the front and rear microphones, the BOSE amp. generates an antiphase sound (microphone signal) weakening interior engine booming noise in real time according to a unique algorithm*1 by a DSP*2 built in the BOSE amp. Then, the BOSE amp. mixes the antiphase sound with a sound signal received from the AV control unit to transmit the mixed sound signal to each speaker.

NOTE:

*1: Algorithm means a fixed procedure to solve a question.

*2: DSP stands for Digital Signal Processor and enables digital processing of sound signals. DSP features precise signal processing and calculation with the digital technology on a small scale that analog methods find it difficult to process and calculate.



HANDS-FREE PHONE FUNCTION

- Hands-free communication can be operated by connecting using Bluetooth[®] communication with cellular phone.
- Operation is performed by steering switch and multifunction switch, and operating condition is indicated on display.
- Guide sound that is heard during operation is input from AV control unit to BOSE amp., and is output from front door speaker.

When A Call Is Originated

Spoken voice sound output from the microphone (Mic. Signal) is input to AV control unit. AV control unit outputs to cellular phone with Bluetooth[®] communication as a TEL voice signal. Voice sound is then heard at the other party.

When Receiving A Call

Voice sound is input to own cellular phone from the other party. TEL voice signal is output to front door speaker, and the signal is input to BOSE amp. via AV control unit by establishing Bluetooth[®] communication from cellular phone.

VOICE RECOGNITION FUNCTION

- Each operation of multi AV system can be performed by inputting sound to microphone.
- Start of voice recognition system can be performed by steering switch.

TOUCH PANEL SYSTEM

Each operation of multi AV system can be performed by directly touching a display.

REAR VIEW MONITOR FUNCTION

- The AV control unit supplies power to the rear view camera when receiving a reverse signal.
- The rear view camera transmits camera images to the display unit when power is supplied from the AV control unit
- The AV control unit transmits a warning message, fixed guide lines, and predictive course lines to the display
 unit by RGB digital image signal. Rear view monitor images are displayed by combining the RGB digital
 image signal and the camera image signals from the rear view camera.
- Predictive course lines are controlled by a steering angle sensor signal received the AV control unit via CAN communication.

VEHICLE INFORMATION FUNCTION

- Status of audio, climate control system, fuel economy, tire pressure and maintenance is displayed.
- AV control unit displays the fuel consumption status while receiving data signal through CAN communication from ECM, combination meter.
- AV control unit displays the tire pressure status while receiving data signal through CAN communication from low tire pressure warning control unit.

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USB CONNECTION FUNCTION

- iPod or music files and video data* of USB memory can be played.
- iPod audio signals are transmitted from USB connector to the AV control unit and to each speaker via BOSE amp.
- Video signals are transmitted from USB connector to the display unit via the AV control unit.
- iPod[®] is recharged when connected to USB connector.
- *: Image signal can not be getting from iPod[®].

iPod® is a trademark of Apple inc., registered in the U.S. and other countries.

NOTE:

Use the enclosed USB harness when connecting iPod® to USB connector.

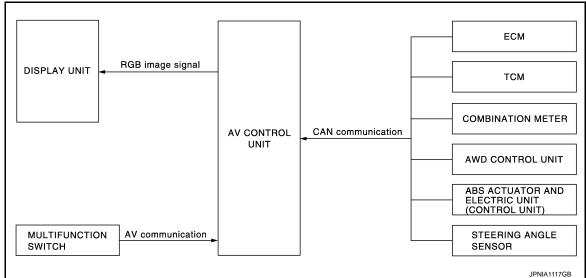
DVD PLAY FUNCTION

- DVD is played by inserting DVD into the AV control unit.
- DVD image signals are transmitted to the display unit and DVD audio signals are transmitted to each speaker via BOSE amp.

MULTIFUNCTION METER SYSTEM

Multi function meter system can be performed with multi function switch.

- To inform the user of the most suitable usage of the high-performance vehicle, the mechanical information display function and driving history information display function are adopted.
- The necessary information is transmitted from each unit to the AV control unit via CAN communication to display on the multifunction meter.



The multifunction meter has functions listed below.

Function	Description	Display
Vehicle information mode	Displays mechanical information to use the vehicle in good condition.	CUSTOM VIEW 1 CUSTOM VIEW 2 CUSTOM VIEW 3 CUSTOM VIEW 4 CUSTOM VIEW 5
Driving history information display mode	Displays the measured TIME results.	STOP WATCH

NOTE:

For further information about the procedure for handling and setting each function, refer to the Operation Manual.

Vehicle Information Mode

MULTI AV SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

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To continue to use the vehicle in good condition, it can display the mechanical information if necessary.



Display	Display Item	Description	Signal route	Display form	Display range	Unit
				Gauge	50 - 130	
	COOLANT TEMP		Coolant temperature sensor → ECM → Com-	Value	(–40) - (200)	°C
	COOLANT TEMP	Engine coolant temperature	bination meter → AV	Gauge	120 - 270	
			control unit	Value	(-40) - (390)	°F
				Gauge	70 - 150	
	ENCINE OIL TEMP		Fluid temperature sensor \rightarrow ECM \rightarrow Combina-	Value	(–50) - (200)	°C
	ENGINE OIL TEMP	Engine oil temperature	tion meter → AV control unit	Gauge	150 - 300	
			unit	Value	(–50) - (390)	°F
	ENGINE OIL PRES	Engine oil pressure	Oil pressure sensor \rightarrow Combination meter \rightarrow	Gauge	0 - 8	x100 kPa
CUSTOM			AV control unit			PSI
VIEW 1 CUSTOM		Transmission oil temperature →	Transmission oil sensor → TCM → Combination meter → AV control unit	Gauge	40 - 160	
VIEW 2 CUSTOM	TRANS OIL TEMP			Value	(-40) - (200)	°C
VIEW 3	TRAINS OIL TEIMP			Gauge	120 - 320	
CUSTOM VIEW 4 CUSTOM				Value	(-40) - (390)	°F
VIEW 5	TRANS OIL PRESSURE	Transmission oil pressure	$\begin{array}{l} \text{Transmission oil pressure sensor} \rightarrow \text{TCM} \rightarrow \\ \text{Combination meter} \rightarrow \\ \text{AV control unit} \end{array}$	Gauge	Lo - Hi	_
			$Boostsensor\toECM\to$	Gauge	(-1.0) - (1.5)	x100
	BOOST	Boost pressure	Combination meter → AV control unit			kPa PSI
			Wheel sensor → ABS		0 - 340	km/h
	SPEED	Vehicle speed (small display only)	actuator and electric unit (control unit) → Combination meter → AV control unit	Value	0 - 340	MPH
				Gauge	E-F	_
	FUEL/RANGE	Fuel level and possible driving distance	Combination meter → AV control unit	Val.	0 222	km
	distance Av control unit		7.C Solition drift	Value	/alue 0 - 999	mile
	FUEL FLOW	Fuel Flow	ECM → AV control unit	Gauge	_	_

MULTI AV SYSTEM

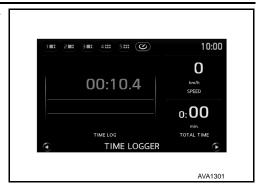
[BOSE AUDIO WITH NAVIGATION]

Display	Display Item	Description	Signal route	Display form	Display range	Unit
		Interval fuel consumption		Value	0 - 30	l/100
		Small display: Latest fuel consumption during the past minute		Graph	0 - 30	km
	FUEL ECON		ECM/Combination	Value	0 - 60	
	T OLL LOON	Large display: Displays the history of an average ECO level per minute (20 minutes data)	$meter \to AV \ control \ unit$	Graph	0 - 30	MPG
	TORQUE SPLIT	Front torque distribution (small display only)	AWD control unit \rightarrow Combination meter \rightarrow AV control unit	Gauge	RWD - AWD	_
				Gauge		
	ACCEL G	History display of accelerator G (for 20 seconds)	Yaw rate/side G/longitudinal G sensor → ABS actuator and electric unit (control unit) → AV control unit	Graph	0 - 1.5	_
			Yaw rate/side G/longitu-	Gauge		
CUSTOM	BRAKING G (for 20 seconds) History display of brake G actuator and ele (control unit) →	dinal G sensor → ABS actuator and electric unit (control unit) → AV control unit	Graph	0 - 1.5	_	
VIEW 1 CUSTOM VIEW 2		Longitudinal G (Accelerator pedal/brake G) Small display:	Yaw rate/side G/longitudinal G sensor → ABS actuator and electric unit (control unit) → AV control unit	Gauge	(–1.5) - (1.5)	_
CUSTOM VIEW 3 CUSTOM	ACCEL BRAKING G	Real time display Large display: History display (for 20 seconds)		Graph	Auto scale	_
VIEW 4 CUSTOM VIEW 5		Transverse G (Cornering G)	Yaw rate/side G/longitudinal G sensor → ABS	Gauge	(-1.5) - (1.5)	
	CORNERING G	Small display: Real time display Large display: History display (for 20 seconds)	actuator and electric unit (control unit) \rightarrow AV control unit	Graph	Auto scale	l
		Synthetic G		Gauge		
	TOTAL G	(Absolute G generated on the vehicle synthesized from longitudinal G and transverse G) Small display: Real time display Large display: History display (for 20 seconds)	Yaw rate/side G/longitudinal G sensor → ABS actuator and electric unit (control unit) → AV control unit	Graph	0 - 1.5	I
	CLOCK	Clock	GPS antenna → AV control unit	Value	12/24	Time
	ACCEL PEDAL	Accelerator pedal position (small display only)	ECM → AV control unit	Gauge	0 - 100	%
	BRAKE PEDAL	Braking pressure (small display only)	Pressure sensor → ABS actuator and electric unit (control unit) → AV control unit	Gauge	0 - 100	%
	STEERING	Steering angle (small display only)	Steering angle sensor → AV control unit	Gauge	Auto scale	_

Driving History Information Display Mode

[BOSE AUDIO WITH NAVIGATION]

Displays the sub-functions (required time history) indicating the driving history.



Display	Description	Display form
STOP WATCH	Displays the measured TIME results.	Special display

Fail-Safe INFOID:0000000011490643

When the ambiance temperature becomes extremely low or extremely high, AV control unit displays the message and limits the AV control unit function.

FAIL-SAFE CONDITIONS

When the ambiance temperature is -20°C (-4°F) or lower, or when it is 70°C (158°F) or higher

Display

The messages displayed on fail-safe conditions are as shown below:

Fail-safe mode	Display (display of the fail-safe condition)
When HDD temperature is low	HDD system is experiencing problems due to extreme low temperature. Normal operation will resume when temperature rises.
When HDD temperature is high	HDD system is experiencing problems due to extreme high temperature. Normal operation will resume when temperature drops.

DESCRIPTION OF CONTROLS

Function When Fail-safe Function is activated		When Fail-safe Function is activated
	Operation	Only multifunction switch (preset switch) can be operated.
Lighay		 LED of multifunction switch (preset switch) illuminates. Aimed temperature, blow angle, and flow rate are displayed in simplified mode.
Audio	Operation Only ON/OFF and volume control operations by multifunction switch (preset switch) are poss	
		No display ("Fail-safe mode" is displayed)
Camera Operation Display		Image tone cannot be controlled.
		Cannot be superimposed. (warning display, tone control display)
Hands-free phone	Operation	Cannot be operated.
Navigation Operation Cannot be operated.		Cannot be operated.
Self diagnosis		The display in simplified mode of fail-safe condition
CONSULT diagnosis Cannot be operated.		Cannot be operated.

Ability Operation Mode

There is an ability operation mode for Fail-safes due to low or high ambiance temperature.

If HDD data can be read, fail-safe is shown, then normal displays are displayed only for functions which can be operated.

RELEASE CONDITIONS OF FAIL-SAFE

Fail-safe is released on following conditions and normal mode is restored.

When The Temperature of HDD Is Low or High

If the ambient temperature becomes out of fail-safe condition range, normal mode is restored.

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[BOSE AUDIO WITH NAVIGATION]

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Description INFOID:000000011490644

 The AV control unit diagnosis function starts up with multifunction switch operation and the AV control unit performs a diagnosis for each unit in the system during the on board diagnosis.

Perform a CONSULT diagnosis if the on board diagnosis does not start, e.g., the screen does not display
anything, the multifunction switch does not function, etc.

On Board Diagnosis Function

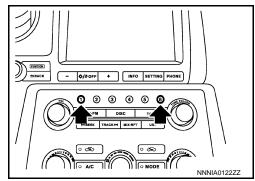
INFOID:0000000011490645

MULTIFUNCTION SWITCH AND PRESET SWITCH SELF-DIAGNOSIS FUNCTION

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

Self-diagnosis Mode

- Press both the preset switches "1" and "6" simultaneously within 10 seconds after turning the ignition switch from OFF to ACC and hold them for 3 seconds or more. Then release the switches. The buzzer sounds, all indicators of the centralized and preset switches illuminate, and the self-diagnosis mode starts.
- The continuity of each switch at the ON position can be checked by pressing the switch. The buzzer sounds if the switch is normal.



Finishing Self-diagnosis Mode

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

ON BOARD DIAGNOSIS ITEM

Description

- The trouble diagnosis function has a self-diagnosis mode for conducting trouble diagnosis automatically and a confirmation/adjustment mode for operating manually.
- The self-diagnosis mode performs diagnoses on the AV control unit, connections between system components as well as connections between AV control unit and GPS antenna. Then it displays the diagnosis results on the display.
- The confirmation/adjustment mode allows the technician to check, modify or adjust the vehicle signals and set values, as well as to monitor the system error records and system communication status. The checking, modifying or adjusting generally require human intervention and judgment (the system cannot make judgment automatically).

On Board Diagnosis Item

Mode	Description
Self Diagnosis	AV control unit diagnosis. Diagnoses the connections across system components, between AV control unit and GPS antenna.

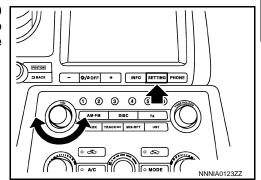
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[BOSE AUDIO WITH NAVIGATION]

Mode			Description	
	Display Diagnosis		The following check functions are available: color tone check by color bar display, light and shade check by gray scale display, touch panel calibration, touch panel response check and color tone check by white display.	
	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.	
		Steering Angle Adjustment	When there is a difference between the actual turning angle and the vehicle mark turning angle, it can be adjusted.	
	Navigation	Speed Calibration	When there is a difference between the current location mark and the actual location, it can be adjusted.	
		XM SAT Subscription Status	The XM NavTraffic subscription status can be checked.	
	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		-	
Confirmation/ Adjustment	Vehicle CAN Diagnosis		The transmitting/receiving of CAN communication can be monitored.	
7.0,00	AV COMM Diagnosis		The communication condition of each unit of Multi AV system can be monitored.	
	Hands-free Phone		The received volume adjustment of hands-free phone, microphone speaker check, and erase memory can be performed.	
	Camera Cont.		The four functions of "Correct Draw Line of Rear view Camera", "Alter/Confirm Configuration", "Reset Configuration" and "Camera Syst Type" are available.	
		XM Navi Trffic	Change Channel	
		XM NavWeather	Any necessary channels required to receive traffic information from the satellite radio system can be set.	
	XM	XM CGS	Change Application ID Any application ID'-s required to receive traffic information from the satellite radio system can be set.	
		Diag	Not used.	
	Delete Unit Conne	ction 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.	

METHOD OF STARTING

- 1. Start the engine.
- 2. Turn the audio system OFF.
- Turn the "VOL" dial either clockwise or counterclockwise for 40 clicks or more while pressing the "SETTING" button. (Beep sounds when starting the self-diagnosis mode.) Press the "BACK" switch and the initial system screen will be shown.



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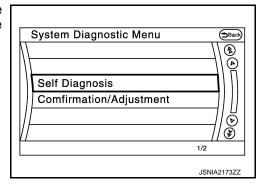
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[BOSE AUDIO WITH NAVIGATION]

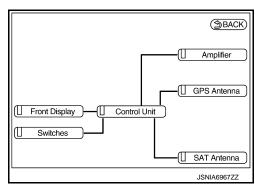
 The trouble diagnosis initial screen is displayed, and then the items of "Self Diagnosis" and "Confirmation/Adjustment" can be selected.



SELF-DIAGNOSIS MODE

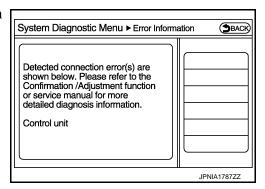
- Start the self-diagnosis function and select "Self Diagnosis".
- Self-diagnosis subdivision screen is displayed, and the self-diagnosis mode starts.
- The bar graph visible on the center of the self-diagnosis subdivision screen indicates progress of the trouble diagnosis.
- Diagnosis results are displayed after the self-diagnosis is completed. The unit names and the connection lines are color-coded according to the diagnostic results.

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



NOTE:

- · Only the control unit (AV control unit) is displayed in red.
- Replace AV control unit if "Self-Diagnosis did not run because of a control unit malfunction" is indicated. The symptom is AV control unit internal error. Refer to AV-166, "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.
- The comments of the self-diagnosis results can be viewed with a component in the diagnosis result screen.



SELF-DIAGNOSIS RESULTS

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

Only Unit Part Is Displayed In Red.

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

Screen switch	Description	Possible malfunction location / Action to take
Control unit	Malfunction is detected in AV control unit power supply and ground circuits.	Check AV control unit power supply and ground circuits. When detecting no malfunction in those components, replace AV control unit.
Amplifier [*]	 When either one of the following items are detected: Audio signal circuits between BOSE amp. and each speaker are malfunctioning. Audio signal circuits between BOSE amp. and each either front or rear microphone is malfunctioning. BOSE amp. malfunction is detected. 	 Malfunctioning speaker circuits Malfunctioning front or rear microphone circuits Replace BOSE amp. Refer to AV-175, "Removal and Installation".

^{*:} With active noise control system

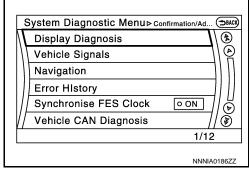
A Connecting Cable Between Units Is Displayed In Yellow.

Area with yellow connection lines	Description	Possible malfunction location / Action to take
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.
Control unit ⇔ GPS Antenna	GPS antenna connection malfunctions detected.	GPS antenna
Control unit ⇔ SAT Antenna	Satellite radio antenna connection malfunctions detected.	Satellite radio antenna
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-138, "BOSE AMP. : Diagnosis Procedure". AV communication circuits between AV control unit and BOSE amp.

^{*:} With active noise control system

CONFIRMATION/ADJUSTMENT MODE

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



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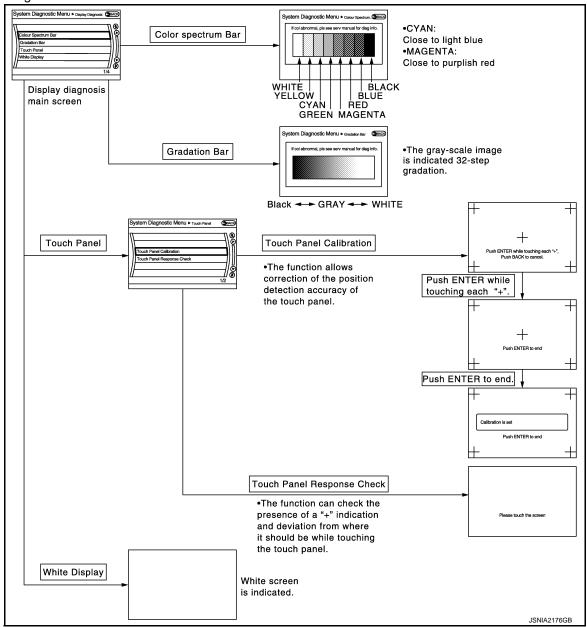
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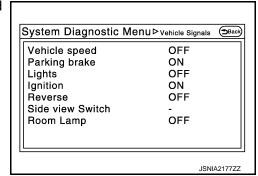
[BOSE AUDIO WITH NAVIGATION]

Display Diagnosis



Vehicle Signals

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



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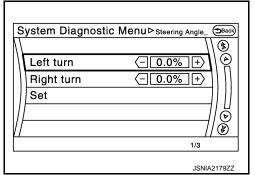
[BOSE AUDIO WITH NAVIGATION]

Diagnosis item	Display	Vehicle status	Remarks	
Mahiala ana ad	ON	Vehicle speed > 0 km/h (0 MPH)		
Vehicle speed	OFF	Vehicle speed = 0 km/h (0 MPH)	Changes in indication may be deleved. This is never	
Darking broke	ON	Parking brake is applied	 Changes in indication may be delayed. This is norm 	
Parking brake	OFF	Parking brake is released		
Lights	ON	Light switch ON		
Lights	OFF	Light switch OFF	_	
Ignition	ON	Ignition switch ON		
	OFF	Ignition switch in ACC position	_	
Reverse	ON	Shift the selector lever to "R" position	Changes in indication may be delayed. This is normal.	
	OFF	Shift the selector lever other than "R" position	- Changes in indication may be delayed. This is normal.	
SIDE VIEW SW	_	_	This item is displayed, but cannot be monitored.	
ROOM LAMP	OFF	-	This item is displayed, but not used.	

Navigation

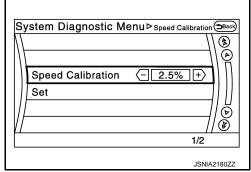
STEERING ANGLE ADJUSTMENT

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.



XM SAT SUBSCRIPTION STATUS

The XM NavTraffic subscription status can be checked.

Error History

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

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

The error record displays the time and place of the most recent occurrence of that error. However, take note of the following points.

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[BOSE AUDIO WITH NAVIGATION]

- If there is a malfunction with the GPS antenna circuit board in the AV control unit, the correct date and time of occurrence may not be able to be displayed.
- Place of the error occurrence is represented by the position of the current location mark at the time an error occurred. If current location mark has deviated from the correct position, then the place of the error occurrence cannot be located correctly.
- The frequency of occurrence is displayed in a count up manner. The actual count up method differs depending on the error item.

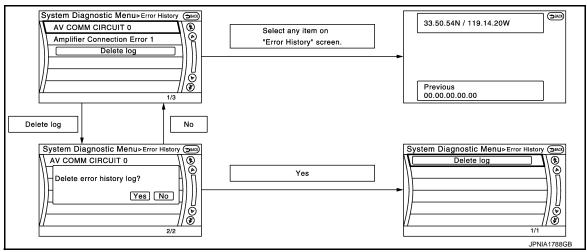
Count up method A

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

Count up method B

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

Display type of occur- rence frequency	Error history display item	
Count up method A	CAN communication line, control unit (CAN), AV communication line, control unit (AV)	
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-34, "CONSULT Function (MULTI AV)".

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.	
FLASH-ROM Error Of Control Unit		
Connection Of Gyro		Davidson the AV control with the well-
Connection of G Sensor		Replace the AV control unit if the malfunction occurs constantly.
CAN Controller Memory Error	AV control unit malfunction is detected.	•
Bluetooth Module Connection Error	Av control unit malfunction is detected.	
Sub CPU Connection Error		
iPod authentification chip error		
Audio connection error		
DSP Connection Error		If a disc can be played, then there is a possibility of the detection of a temporary
DSP Communication Error	AV control unit malfunction is detected.	malfunction.Replace the AV control unit if the malfunction occurs constantly.
HDD Connection Error		
HDD Read Error		
HDD Write Error	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.
HDD Communication Error		,
HDD Access Error		
GPS Communication Error		An intermittent error caused by strong radio
GPS ROM Error		interference may be detected unless any symptom (GPS reception error, etc.) oc-
GPS RAM Error	GPS malfunction is detected.	curs.
GPS RTC Error		Replace the AV control unit if the malfunction occurs constantly.
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.
Front Display Connection Error	 Display unit power supply and ground circuits malfunction is detected. Malfunction is detected in communication circuits between AV control unit and display unit. 	 Display unit power supply and ground circuits. Communication circuits between AV control unit and display unit.
Amplifier Temperature Error	BOSE amp. malfunction is detected.	Replace the BOSE amp.
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 feeder. Satellite radio antenna.
USB electric current Error	Detection of over current in USB connector.	Check USB harness between the AV control unit and USB connector.
AM/FM antenna amplifier short to ground AM/FM antenna amplifier open	Radio antenna amp. ON signal circuit mal- function is detected.	Radio antenna amp. ON signal circuit between AV control unit and antenna amp.

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< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take	
FL-DOOR WOOFER OUT: open			
FL-DOOR WOOFER OUT: short	Malfunction is detected sound signal cir-	Sound signal circuits between BOSE amp. and front door speaker LH.	
FL-DOOR WOOFER OUT: short to ground	cuits between BOSE amp. and front door speaker LH.		
FL-DOOR WOOFER OUT: short to battery	•		
FL-DOOR SQUAWKER OUT: open			
FL-DOOR SQUAWKER OUT: short	Malformation is datasted assumed signal sign		
FL-DOOR SQUAWKER OUT: short to ground	Malfunction is detected sound signal cir- cuits between BOSE amp. and front door squawker LH or tweeter LH.	Sound signal circuits between BOSE amp. and front door squawker LH or tweeter LH.	
FL-DOOR SQUAWKER OUT: short to battery			
FR-DOOR WOOFER OUT: open			
FR-DOOR WOOFER OUT: short	Malfunction is detected sound signal circuits between BOSE amp. and front door	Sound signal circuits between BOSE amp.	
FR-DOOR WOOFER OUT: short to ground	speaker RH.	and front door speaker RH.	
FR-DOOR WOOFER OUT: short to battery			
FR-DOOR SQUAWKER OUT: open			
FR-DOOR SQUAWKER OUT: short	Malfunction is detected sound signal cir-		
FR-DOOR SQUAWKER OUT: short to ground	cuits between BOSE amp. and front door squawker RH or tweeter RH.	Sound signal circuits between BOSE amp. and front door squawker RH or tweeter RH	
FR-DOOR SQUAWKER OUT: short to battery			
FC-INST SQUAWKER OUT: open			
FC-INST SQUAWKER OUT: short	Malfunction is data at a discount signal sign	Sound signal circuits between BOSE amp. and center speaker.	
FC-INST SQUAWKER OUT: short to ground	Malfunction is detected sound signal cir- cuits between BOSE amp. and center speaker.		
FC-INST SQUAWKER OUT: short to battery			
RL-DOOR SPEAKER OUT: open			
RL-DOOR SPEAKER OUT: short	Malfunction is detected sound signal circuits between BOSE amp. and rear speak-	Sound signal circuits between BOSE amp.	
RL-DOOR SPEAKER OUT: short to ground	er LH.	and rear speaker LH.	
RL-DOOR SPEAKER OUT: short to battery			
RR-DOOR SPEAKER OUT: open			
RR-DOOR SPEAKER OUT: short	Malfunction is detected sound signal cir-		
RR-DOOR SPEAKER OUT: short to ground	cuits between BOSE amp. and rear speaker RH.	Sound signal circuits between BOSE amp and rear speaker RH.	
RR-DOOR SPEAKER OUT: short to battery			
RC-PSHELF WOOFER OUT: open			
RC-PSHELF WOOFER OUT: short			
RC-PSHELF WOOFER OUT: short to ground	Malfunction is detected sound signal circuits between BOSE amp. and woofer.	Sound signal circuits between BOSE amp. and woofer.	
RC-PSHELF WOOFER OUT: short to battery			
Compensat.mic IN: open			
Compensat.mic IN: short	Malfunction is detected in sound signal cir-	Sound signal circuits between BOSE amp.	
Compensat.mic IN: short to ground	cuits between BOSE amp. and either front or rear microphone.	and front or rear microphone.	
	•		

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
AV COMM CIRCUIT Switches Connection Error	When either one of the following items are detected: multifunction switch power supply and ground circuits are malfunctioning. AV communication circuits between AV control unit and multifunction switch are malfunctioning.	Multifunction switch power supply and ground circuits. AV communication circuits between AV control unit and multifunction switch.
AV COMM CIRCUIT Amplifier Connection Error	 BOSE amp. power supply and ground circuits malfunction is detected. Malfunction is detected in AV communication circuit between AV control unit and BOSE amp. 	BOSE amp. power supply and ground circuits. AV communication circuit between AV control unit and BOSE amp.

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 (VDC)	OK / ???	OK / 0 - 39

NOTE:

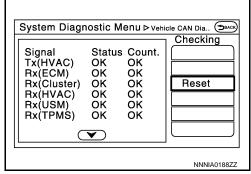
"???" indicates UNKWN

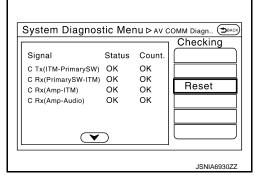
AV COMM Diagnosis

- 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 / UNKWN	OK / 0 – 39
C Rx (PrimarySW-ITM)	OK / UNKWN	OK / 0 – 39
C Rx (STRG SW-ITM)	OK / UNKWN	OK / 0 – 39
C Rx (Audio-ITM)	OK / UNKWN	OK / 0 – 39
C Rx (Amp–ITM)	OK / UNKWN	OK / 0 – 39
C Rx (Amp-Audio)	OK / UNKWN	OK / 0 – 39

Hands-Free Phone





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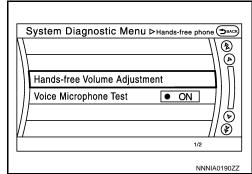
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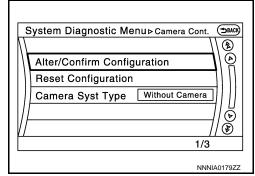
[BOSE AUDIO WITH NAVIGATION]

The hands-free phone reception volume adjustment and microphone and speaker test functions are also available.



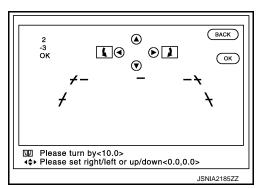
Camera Cont.

The four functions of "Correct Draw Line of Rear view Camera", "Alter/Confirm Configuration", "Reset Configuration" and "Camera Syst Type" are available.



Correct Draw Line 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.



Alter/Confirm Configuration

Configuration stored in the AV control unit can be checked and modified.

Configuration list

Setting item	Setting	Setting item	Setting
Predi. Course Lines	With	Wheelbase	2.7800000
Rear Coeff. K	-133446.7	Total Length	0.0000000
Rear Coeff. F	0.0016960	Steering Gear Ratio	14.368316
Rear Coeff. P1	0.000046	Side Coeff. K	0.0000000
Rear Coeff. P2	0.000056	Side Coeff. F	0.0000000
Rear Coeff. C1	823.00000	Side Coeff. P1	0.0000000
Rear Coeff. C2	480.00000	Side Coeff. P2	0.0000000
Rear Coeff. D1	800.00000	Side Coeff. C1	0.0000000
Rear Coeff. D2	494.00000	Side Coeff. C2	0.0000000
Car Width	1.8950000	Side Coeff. D1	0.0000000
Rear Offset	-0.207930	Side Coeff. D2	0.0000000
Rear Height	0.6846400	Side Offset	0.0000000

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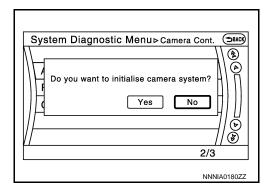
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Setting item	Setting	Setting item	Setting
Rear L/R Angle	0.0000000	Overall Height	0.0000000
Rear Up/Dn Angle	49.409999	Side L/R Angle	0.0000000
Rear Roll Angle	0.0000000	Side Up/Dn Angle	0.0000000
Bumper Rear Dist.	0.0383800	Side Roll Angle	0.0000000
Bumper Rear Ax Dist	0.9710000	Side Front End Dist	0.0000000
Steer. Max Angle	443.83728	Total Width	0.0000000
Min. Turning Red.	5.7049999	_	_

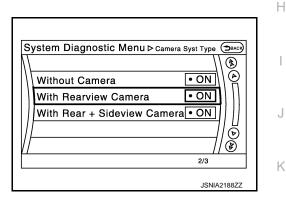
Reset Configuration

• Configuration stored in the AV control unit can be initialized.



Camera Syst Type

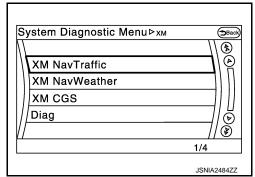
Type of camera system is selectable.



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.

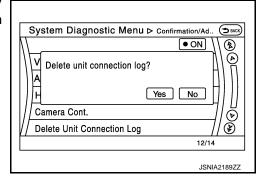


Delete Unit Connection Log

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[BOSE AUDIO WITH NAVIGATION]

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

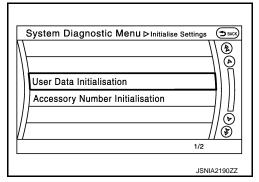


Initialize Settings

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

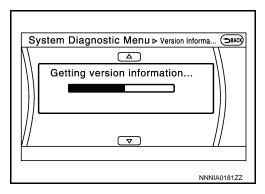
CAUTION:

- Never perform Accessory Number Initialization except when configuration is unsuccessful.
- Accessory Number Initialization requires configuration. For details, refer to <u>AV-93, "CONFIGURATION (AV CONTROL</u> UNIT): Description".



Version Information

Version information of the AV control unit is displayed.



CONSULT Function (MULTI AV)

INFOID:0000000011490646

APPLICATION ITEMS

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

Diagnosis mode	Description	
Ecu Identification	The part number of AV control unit can be checked.	
Self Diagnostic Result	Performs a diagnosis on the AV control unit and a connection diagnosis for the communication circuit of the Multi AV system, and displays the current and past malfunctions collectively.	
Data Monitor	The diagnosis of vehicle signal that is input to the AV control unit can be performed.	
Work Support	Steering angle sensor can be adjusted.	
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing AV control unit. 	

AV Communication

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

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

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ECU IDENTIFICATION

The part number of AV control unit is displayed.

SELF DIAGNOSIS RESULT

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

Self-diagnosis Results Display Item

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT [U1000]	CAN communication malfunction is detected.	Perform diagnosis with CONSULT, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-96, "Diagnosis Procedure"
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.
CONTROL UNIT (AV) [U1310]	AV communication circuit initial diagnosis malfunction is detected.	
Cont Unit [U1200]		
GYRO NO CONN [U1201]		
G-SENSOR NO CONN [U1202]		
CAN CONT [U1216]	AV	
BLUETOOTH MODULE [U1217]	AV control unit malfunction is detected.	
SUB CPU CONN [U1228]		
iPod CERTIFICATION [U1229]		
Built-in AUDIO CONN [U122E]		
HDD CONN [U1218]		Replace the AV control unit if the malfunction occurs constantly.
HDD READ [U1219]		
HDD WRITE [U121A]	AV control unit malfunction is detected.	
HDD COMM [U121B]		
HDD ACCESS [U121C]		
GPS COMM [U1204]		An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly.
GPS ROM [U1205]		
GPS RAM [U1206]	GPS malfunction is detected.	
GPS RTC [U1207]		
USB CONTROLLER [U1225]	USB connection malfunction is detected.	Check that the connection to the USB connector is normal.
DSP CONN [U121D]		 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.
DSP COMM [U121E]	AV control unit malfunction is detected.	
DVD COMM [U1227]	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.
CONFIG UNFINISH [U122A]	The writing of configuration data is incomplete.	Write configuration data with CONSULT.
AMP TEMP [U1231]	BOSE amp. malfunction is detected.	Replace the BOSE amp.

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
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.
FRONT DISP CONN [U1243]	When either one of the following items are detected: • display unit power supply and ground circuits malfunction is detected. • communication circuits between AV control unit and display unit.	Display unit power supply and ground circuits. Communication circuits between AV control unit and AV display unit.
GPS ANTENNA CONN [U1244]	GPS antenna connection malfunction is detected.	Check the connection of the GPS antenna connector.
XM ANTENNA CONN [U1258]	Satellite radio antenna connection mal- function is detected.	Satellite radio antenna feeder. Satellite radio antenna.
USB OVERCURRENT [U1263]	Detection of over current in USB connecter.	Check USB harness between the AV control unit and USB connector.
ANTENNA AMP TERMINAL [U1264]	Radio antenna amp. ON signal circuit mal- function is detected.	Radio antenna amp. ON signal circuit between AV control unit and radio antenna amp.
FL-DOOR WOOFER [OPEN, SHORT, GND-SHORT or VB- SHORT] [U1601]	Malfunction is detected audio signal circuits between BOSE amp. and front door speaker LH.	Audio signal circuits between BOSE amp. and front door speaker LH.
FL-DOOR SQUAWK [OPEN, SHORT, GND-SHORT or VB- SHORT] [U1602]	Malfunction is detected audio signal circuits between BOSE amp. and front door squawker LH or tweeter LH.	Audio signal circuits between BOSE amp. and front door squawker LH or tweeter LH
FR-DOOR WOOFER [OPEN, SHORT, GND-SHORT or VB- SHORT] [U1609]	Malfunction is detected audio signal circuits between BOSE amp. and front door speaker RH.	Audio signal circuits between BOSE amp. and front door speaker RH.
FR-DOOR SQUAWK [OPEN, SHORT, GND-SHORT or VB- SHORT] [U160A]	Malfunction is detected audio signal circuits between BOSE amp. and front door squawker RH or tweeter RH.	Audio signal circuits between BOSE amp. and front door squawker RH or tweeter RH.
F-INST C-SQUAWK [OPEN, SHORT, GND-SHORT or VB- SHORT] [U162A]	Malfunction is detected audio signal circuits between BOSE amp. and center speaker.	Audio signal circuits between BOSE amp. and center speaker.
R-PSHELF L-SQUAWK [OPEN, SHORT, GND-SHORT or VB- SHORT] [U1722]	Malfunction is detected audio signal circuits between BOSE amp. and rear speaker LH.	Audio signal circuits between BOSE amp. and rear speaker LH.
R-PSHELF R-SQUAWK [OPEN, SHORT, GND-SHORT or VB- SHORT] [U172A]	Malfunction is detected audio signal circuits between BOSE amp. and rear speaker RH.	Audio signal circuits between BOSE amp. and rear speaker RH.
R-PSHELF C-WOOFER [OPEN, SHORT, GND-SHORT or VB- SHORT] [U1725]	Malfunction is detected audio signal circuits between BOSE amp. and woofer.	Audio signal circuits between BOSE amp. and woofer.
CORRECT MICROPHONE [U190C]	Malfunction is detected in audio signal circuits between BOSE amp. and either front or rear microphone.	Audio signal circuits between BOSE amp. and front or rear microphone.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
AV COMM CIRCUIT [U1300] SWITCH CONN [U1240]	When either one of the following items are detected: multifunction switch power supply and ground circuits are malfunctioning. AV communication circuits between AV control unit and multifunction switch are malfunctioning.	Multifunction switch power supply and ground circuits. AV communication circuits between AV control unit and multifunction switch.
AV COMM CIRCUIT [U1300] AMP CONN [U124E]	 BOSE amp. power supply and ground circuits malfunction is detected. Malfunction is detected in AV communication circuit between AV control unit and BOSE amp. 	 BOSE amp. power supply and ground circuits. AV communication circuit between AV control unit and BOSE amp.

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

ALL SIGNALS

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

Display Item	Display	Vehicle status	Remarks		
VHCL SPD SIG	On	Vehicle speed >0 km/h (0 MPH)			
VIICE OF D SIG	Off	Vehicle speed =0 km/h (0 MPH)	Changes in indication may be delayed. This is		
PKB SIG	On	Parking brake is applied.	normal.		
PND SIG	Off	Parking brake is released.			
ILLUM SIG	On	Block the light beam from the auto light optical sensor when the light SW is ON.			
ILLOW SIG	Off Expose the auto light optical sensor to light when the light SW is OFF or ON.		_		
IGN SIG	On	Ignition switch ON			
IGN SIG	Off	Ignition switch in ACC position			
	On	Selector lever in R position	Changes in indication may be delayed. This is		
REV SIG	Off	Selector lever in any position other than R	Changes in indication may be delayed. This is normal.		
SIDE VIEW SW	Off	This item is displayed, but cannot be monitored.	_		
ROOM LAMP	Off	This item is displayed, but not used.			

SELECTION FROM MENU

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

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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

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[BOSE AUDIO WITH NAVIGATION]

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

CONFIGURATION

Configuration includes functions as follows.

Fu	nction	Description
Read/Write Configuration	Before Replace ECU	Allows the reading of vehicle specification written in AV control unit to store the specification in CONSULT.
Read/Write Configuration	After Replace ECU	Allows the writing of the vehicle information stored in CONSULT into the AV control unit.
Manual Configuration		Allows the writing of the vehicle specification into the AV control unit by hand.

DIAGNOSIS SYSTEM [BOSE AMP.(ACTIVE NOISE CONTROL SYSTEM)] [BOSE AUDIO WITH NAVIGATION]

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM [BOSE AMP.(ACTIVE NOISE CONTROL SYSTEM)]

On Board Diagnosis Function

INFOID:0000000011490647

ON BOARD DIAGNOSIS ITEM

Starting with the operation of the door switch, the Self-diagnosis function allows the diagnoses of the active noise control unit internal circuit, the input state of each signal, and a microphone connection state. The diagnosis results are indicated by a sound.

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DIAGNOSIS SYSTEM [BOSE AMP.(ACTIVE NOISE CONTROL SYSTEM)] [BOSE AUDIO WITH NAVIGATION]

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Perform Self-diagnosis, according to the following steps:

88: MAX-10DB : No sound, □1.1 p.0/e) 36 4.0 4.5 Next 10Pe item within the parentheses 10 10 10 10 10 10 10 10 10 10 10 10 10	- A	Veglocitis de mont alle consideration de la co	TOR Alter the eard of the believe of the side about beages hand in Sige 1, silvers believe to approx. 1 excord and a sound is hand cooxeding to a check well Size 3 of the hundred of optiobes. 3 1 *** FM** O, a beege is heared for 30 seconds to be sized for 30 seconds to second size and the size of the size of the second size and the size of the second size of the second size and the size of the second size o	alite in-second-simple.	4 A beep sounds for 60 seconds at maximum in efflor case.	The same sound is heard after a lapse of 60 5 seconds when the a lapse of 60 5 seconds when the processing the door switch.	x MAX 5 cycles 6 Rat as CWC 1 cycles 10 Rat CWC 1 cycle 1 agricult 4 cycle 1 c	(200) All the properties of the designed for the school of		Abbr the convolution of self-disproses. 12 The active noise control system starts from the system starts.	postupe postupe	3 881 129/28	epico) Xm x	New York New York		10 After the completion of self-diagnosis.	Fig. (a) remaind operation. (1 epole only) days:	A bage sounds br 40 seconds at maximum halfer case a frequency of the control of the case and cycles (1 cycle to approx 0.75 sec. x 60 cycles)	1 Abep is heard for 60 seconds after 10-second silence.	East after the completent or stall degrees. The achies agrees to east open stall degrees. The achies agrees in code posters other other open comit openalize. (I open orbit)		x MAX 6 cycles	
Output sound pattern (■ MAX. 88: MAX.10dB. 06ec.) 1.5 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0			OK: Alter the end of the last beep of the triple short beeps heard in Step 1, sterne follows for isolating by stellars (Sept. 1, sterne follows for isolating by stellars); sectors (Sept. 1, sectors) descriptions	H	MAX 24 cycles	1 sycle only		1 cycle cnity	1 cycle cmly	1 cycle only	1 cycle cnity					1 cycle only	1 cycle only	x MAX 80 cycles	Papplet only for the sen (1); sp. /brane, 1) seconds of demo-	1 aycle only			
Operation Judgment	Turn on the radio to check that the speakers are normal.	Within 5 secrots after starting the engine with all those seconds after starting the engine with all more second the companies of the control miss the difference of 4 seconds.	Identity a sound heard after the notification sound (Step 1).		Identify a sound (Step 2). GASOLINE	Press the door switch 6 times or more during a time interval of 4 seconds.		Press the docroseshib is times or men during a line reprovid of 4 secrets within a probaped source is rigidity	O Witten 30 seconds whele the prolonged sounds integring (Step 2), press the door wanth of times or more during a time interval of 4 seconds.	Within 10 seconds while the silence Skep2 , press the door switch 6 times or more change a time streval of 4 seconds.	© Welf for 30 seconds until the prolonged sound stops.	Рене пыхороле: ОК Рене пихороле: ОК	Front microphose: MS	Identify the sound pattern.	Hear morphone: No Front microphose: NG	sound is ringing, press the door switch 6 times or more during a time intervals of 4 seconds.	(2) Wait for 60 seconds until the prolonged sound stops.	OK	Identity one sound pattern.	Press the door switch 6 times or more during a time interval of 4 seconds Wat for 60 seconds until the prolonged sound stops.	ANC: ON	Identity the sound pattern. ANC : OFF	
Step Check Item	- Preparation	1 Self-diagnosis mode startup	Diagnoses of engine speed signal and the microphone for active noise control system.		3 Checking the judgment result of the number of cylinders	4 (Interruption of cylinder judge result notification sound)	Sample sound for the active noise control system	6 End of self-diagnosis	Select of the next step	© Distinction of the abnormality point 7 ©ON/OFF reshuffling of the ANC function	© End of self-diagnosis			Active noise control system microphone check		Start of self-diagnosis for		Os Toronto possess or board	contracts and a contract contr	11 End of self-diagnosis	Conformation of the ANC control		

• When a sound is not outputted from the speakers as a result of the preparation, check the AV control unit, BOSE amp., connector connections, or speakers.

• When Self-diagnosis mode does not start at Step 1, check the door state signal circuit.

• When a malfunction is detected in the microphone at Step 8, check the signal circuit of each microphone.

• When the actual number of cylinders is different from the diagnosis sound of the cylinder identification, check the cylinder identification signal circuit.

ECU DIAGNOSIS INFORMATION

AV CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

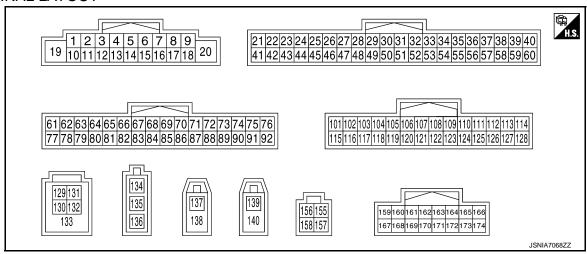
NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT MONITOR ITEM

Monitor Item		Condition	Value/Status
VHCL SPD SIG	Ignition switch	Vehicle speed > 0 km/h (0 MPH)	On
VHCL SPD SIG	ON	Vehicle speed = 0 km/h (0 MPH)	Off
DIAD OIO	Ignition switch	Parking brake is applied.	On
PKB SIG	ON	Parking brake is released.	Off
II I I IM CIC	Ignition switch	Light switch ON	On
ILLUM SIG	ON	Light switch OFF	Off
1011 010	Ignition switch ON	_	On
IGN SIG	Ignition switch ACC	_	Off
REV SIG	Ignition switch	Selector lever in R position	On
REV SIG	ON	Selector lever in any position other than R	Off
SIDE VIEW SW	Ignition switch ON	This item is displayed, but cannot be monitored.	Off
ROOM LAMP Ignition switch ON This item is displayed, but not used.		Off	

TERMINAL LAYOUT



PHYSICAL VALUES

Revision: 2015 June AV-41 GT-R

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< ECU DIAGNOSIS INFORMATION >

	minal e color)	Description			O Pitt	Reference value				
+	_	Signal name	Input/ Output		Condition	(Approx.)				
1* (V)	Ground	BOSE amp. ON signal	Output	Ignition switch ON	_	11.0 V				
2 (L)	3 (P)	Audio signal front LH	Output	Ignition switch ON	Sound output	(V) 1 0 -1 + 2ms SKIB3609E				
4 [*] (V)	5 [*] (LG)	Audio signal rear LH	Output	Ignition switch ON	Sound output	(V) 1 0 -1 + 2ms SKIB3609E				
					Keep pressing SOURCE switch.	0 V				
					Keep pressing SEEK switch to \triangle .	1.0 V				
6 (V)	15 (GR)	Steering switch signal A	Input	Ignition switch	Keep pressing SEEK switch to ∇ .	2.0 V				
. ,				İ					ON	Keep pressing 🏑 switch.
					Keep pressing START / STOP switch.	4.0 V				
					Except for above.	5.0 V				
7 (V)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage				
10 (B)	_	Shield	_	_	_	_				
11 (R)	12 (G)	Audio signal front RH	Output	Ignition switch ON	Sound output	(V) 1 0 -1 + 2ms SKIB3609E				
13 [*] (BR)	14 [*] (Y)	Audio signal rear RH	Output	Ignition switch ON	Sound output	(V) 1 0 -1 + 2ms SKIB3609E				

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

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	minal e color)	Description			Condition	Reference value	
+	_	Signal name	Input/ Output		Condition	(Approx.)	
					Keep pressing VOL switch to	0 V	
16	15	Steering switch signal B	Steering switch signal B	Input	Ignition switch	Keep pressing VOL switch to +.	1.0 V
(SB)	(GR)	Otooming owner orginal B	mpat	ON	Keep pressing 🗸 switch.	2.0 V	
					Keep pressing MRK switch.	3.0 V	
					Except for above.	5.0 V	
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage	
20 (B)	Ground	Ground	_	Ignition switch ON	_	0 V	
22 (G)	Ground	Camera power supply	Output	Ignition switch	At rear view camera image is displayed.	6.0 V	
(0)				ON	Except for above.	0 V	
26 (G)	Ground	AUX image signal	Input	Ignition switch ON	At AUX image is displayed.	(V) 0. 4 0 -0. 4 -0. 4 -0. 4 -0. 5 SKIB2251J	
29 (SB)	Ground	Disk eject signal	Input	Ignition switch ON	Pressing the eject switch. Except for above.	0 V 5.0 V	
42 (R)	Ground	Camera ground	_	Ignition switch ON	_	0 V	
46 (R)	Ground	AUX image signal ground	_	Ignition switch ON	1	0 V	
47	_	Shield	_	_	_	_	
49 (BR)	Ground	Switch ground	_	Ignition switch ON	_	0 V	
52 (W)	Ground	View camera signal	_	Ignition switch ON	_	_	
65 (R)	Ground	Parking brake signal	Input	Ignition switch ON	Parking brake is ON. Parking brake is OFF.	4.5 V 0 V	
67 (W)	Ground	Composite image ground	_	Ignition switch ON	_	0 V	

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
68 (R)	Ground	Composite image signal	Output	Ignition switch ON	At DVD image is displayed.	(V) 0. 4 0 -0. 4 -40µs SKIB2251J
71	Ground	Microphone ground	_	Ignition switch ON	_	0 V
72 (L)	Ground	Microphone VCC	Output	Ignition switch ON	_	5.0 V
73 (V)	Ground	Communication signal (CONT→DISP)	Output	Ignition switch ON	When adjusting display brightness.	(V) 6 4 2 0 1ms PKIB5039J
74 (P)	_	CAN-L	Input/ Output	_	_	_
75 (R)	_	AV communication signal (L)	Input/ Output	_	_	_
76 (R)	_	AV communication signal (L)	Input/ Output	_	_	_
79 (R)	Ground	Illumination signal	Input	Ignition switch	Lighting switch is OFF.	0 V
80 (W)	Ground	Ignition signal	Input	OFF Ignition switch ON	Lighting switch is ON. —	12.0 V Battery voltage
81	Ground	Reverse signal	Input	Ignition switch	R position	12.0 V
(BG)				ON	Other than R position	0 V
82 (V)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25 MPH)	Maximum voltage may be 12.0 V due to specifications (connected units). (V) 6 4 2 0 ***20ms SKIA6649J
83	_	Shield	_	_	_	_

	minal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
84 (B)	Ground	Composite synchronizing signal	Output	Ignition switch ON	_	(V) 6 4 20 µ s
87 (P)	71	Microphone signal	Input	Ignition switch ON	Give a voice	(V) 2. 5 2. 0 1. 5 1. 0 0. 5 0
88	_	Shield	_	_	_	_
89 (SB)	Ground	Communication signal (DISP→CONT)	Input	Ignition switch ON	When adjusting display brightness.	(V) 6 4 2 0 +-1ms PKIB5039J
90 (L)	_	CAN-H	Input/ Output	_	_	<u> </u>
91 (G)	_	AV communication signal (H)	Input/ Output	_	_	_
92 (G)	_	AV communication signal (H)	Input/ Output	_	_	_
104 (W)	119 (B)	AUX sound signal LH	Input	Ignition switch ON	When AUX mode is selected.	(V) 1 0 -1 -2ms
117	_	Shield	_	_	_	SKIB3609E —
118 (R)	119 (B)	AUX sound signal RH	Input	Ignition switch ON	When AUX mode is selected.	(V) 1 0 -1 + 2ms SKIB3609E
129 (G)	_	USB ground	_	_	_	_
130 (R)		USB D-	_	_	_	_

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

	minal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
131 (W)	_	V BUS signal	_	_	_	_
132 (L)	_	USB D+	_	_	_	_
133	_	Shield	_	_	_	_
134	Ground	Antenna amp. ON signal	Output	Ignition switch ON	_	12.0 V
135	_	AM-FM main	Input	_	_	_
136	_	FM sub	Input	_	_	_
137	Ground	GPS antenna signal	Input	Ignition switch ON	Not connected to GPS antenna connector	5.0 V
138	_	Shield	_	_	_	_
139	Ground	Satellite antenna signal	Input	Ignition switch ON	Not connected to satellite radio antenna connector.	5.0 V
140	_	Shield	_	_	_	_
157	Ground	RGB digital image signal (+)	Output	Ignition switch ON	Not connected connector.	3.3 V
158	Ground	RGB digital image signal (-)	Output	Ignition switch ON	Not connected connector.	3.3 V
159	_	_	_	_	_	_
160 (G)	161 (R)	Voice guidance signal	_	_	_	_
169	_	Shield	_	_	_	

^{*:} Without active noise control system

Fail-Safe

When the ambiance temperature becomes extremely low or extremely high, AV control unit displays the message and limits the AV control unit function.

FAIL-SAFE CONDITIONS

When the ambiance temperature is -20°C (-4°F) or lower, or when it is 70°C (158°F) or higher

Display

The messages displayed on fail-safe conditions are as shown below:

Fail-safe mode	Display (display of the fail-safe condition)
When HDD temperature is low	HDD system is experiencing problems due to extreme low temperature. Normal operation will resume when temperature rises.
When HDD temperature is high	HDD system is experiencing problems due to extreme high temperature. Normal operation will resume when temperature drops.

DESCRIPTION OF CONTROLS

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

Function	1	When Fail-safe Function is activated								
Air conditioner Disp Audio Ope Disp Camera Ope Disp Disp Ope Disp Disp Disp Disp Disp Disp Disp Disp Disp	Operation	Only multifunction switch (preset switch) can be operated.								
Air conditioner	Display	 LED of multifunction switch (preset switch) illuminates. Aimed temperature, blow angle, and flow rate are displayed in simplified mode. 								
Audio	Operation	only ON/OFF and volume control operations by multifunction switch (preset switch) are possible.								
Audio	Display	No display ("Fail-safe mode" is displayed)								
Camara	Operation Display Operation Only multifunction swi LED of multifunction Aimed temperature Operation Only ON/OFF and vol Display No display ("Fail-safe Operation Display Cannot be superimporands-free phone Operation Operation Cannot be operated. Operation Cannot be operated. Operation Operation The display in simplification	Image tone cannot be controlled.								
Camera	Display	Cannot be superimposed. (warning display, tone control display)								
Hands-free phone	Operation	Cannot be operated.								
Navigation	Operation	Cannot be operated.								
Self diagnosis	'	The display in simplified mode of fail-safe condition								
CONSULT diagnosis	3	Cannot be operated.								

Ability Operation Mode

There is an ability operation mode for Fail-safes due to low or high ambiance temperature.

If HDD data can be read, fail-safe is shown, then normal displays are displayed only for functions which can be operated.

RELEASE CONDITIONS OF FAIL-SAFE

Fail-safe is released on following conditions and normal mode is restored.

When The Temperature of HDD Is Low or High

If the ambient temperature becomes out of fail-safe condition range, normal mode is restored.

DTC Index INFOID:0000000011490650

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

DTC	Display item	Refer to
U1000	CAN COMM CIRCUIT [U1000]	AV-96, "DTC Logic"
U1010	CONTROL UNIT (CAN) [1010]	AV-97, "DTC Logic"
U1200	Cont Unit [U1200]	AV-98, "DTC Logic"
U1201	GYRO NO CONN [U1201]	AV-99, "DTC Logic"
U1202	G-SENSOR NO CONN [U1202]	AV-100, "DTC Logic"
U1204	GPS COMM [U1204]	AV-101, "DTC Logic"
U1205	GPS ROM [U1205]	AV-102, "DTC Logic"
U1206	GPS RAM [U1206]	AV-103, "DTC Logic"
U1207	GPS RTC [U1207]	AV-104, "DTC Logic"
U1216	CAN CONT [U1216]	AV-105, "DTC Logic"
U1217	BLUETOOTH MODULE [U1217]	AV-106, "DTC Logic"
U1218	HDD CONN [U1218]	AV-107, "DTC Logic"
U1219	HDD READ [U1219]	AV-108, "DTC Logic"
U121A	HDD WRITE [U121A]	AV-109, "DTC Logic"
U121B	HDD COMM [U121B]	AV-110, "DTC Logic"
U121C	HDD ACCESS [U121C]	AV-111, "DTC Logic"
U121D	DSP CONN [U121D]	AV-112, "DTC Logic"
U121E	DSP COMM [U121E]	AV-113, "DTC Logic"
U1225	USB CONTROLLER [U1225]	AV-114, "DTC Logic"
U1227	DVD COMM [U1227]	AV-115, "DTC Logic"
U1228	SUB CPU CONN [U1228]	AV-116, "DTC Logic"

AV-47 Revision: 2015 June GT-R

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< ECU DIAGNOSIS INFORMATION >

DTC	Display item	Refer to
U1229	iPod CERTIFICATION [U1229]	AV-117, "DTC Logic"
U122A	CONFIG UNFINISH [U122A]	AV-118, "DTC Logic"
U122E	Built-in AUDIO CONN [U122E]	AV-119, "DTC Logic"
U1231	AMP TEMP [U1231]	AV-120, "DTC Logic"
U1232	ST ANGLE SEN CALIB [1232]	AV-120, "DTC Logic"
U1243	FRONT DISP CONN [U1243]	AV-122, "DTC Logic"
U1244	GPS ANTENNA CONN [U1244]	AV-124, "DTC Logic"
U1258	XM ANTENNA CONN [U1258]	AV-125, "DTC Logic"
U1263	USB OVERCURRENT [U1263]	AV-126, "DTC Logic"
U1264	ANTENNA AMP TERMINAL [U1264]	AV-127, "DTC Logic"
U1300 U1240	AV COMM CIRCUIT [U1300] SWITCH CONN [U1240]	AV-128, "Description"
U1300 U124E	AV COMM CIRCUIT [U1300] AMP CONN [U124E]	AV-128, "Description"
U1310	CONTROL UNIT (AV) [U1310]	AV-129, "DTC Logic"
U1601	FL-DOOR WOOFER [OPEN, SHORT, GND-SHORT or VB-SHORT] [U1601]	AV-130, "DTC Logic"
U1602	FL-DOOR SQUAWK [OPEN, SHORT, GND-SHORT or VB-SHORT] [U1602]	AV-131, "DTC Logic"
U1609	FR-DOOR WOOFER [OPEN, SHORT, GND-SHORT or VB-SHORT] [U1609]	AV-130, "DTC Logic"
U160A	FR-DOOR SQUAWK [OPEN, SHORT, GND-SHORT or VB-SHORT] [U160A]	AV-131, "DTC Logic"
U162A	F-INST C-SQUAWK [OPEN, SHORT, GND-SHORT or VB-SHORT] [U162A]	AV-132, "DTC Logic"
U1722	R-PSHELF L-SQUAWK [OPEN, SHORT, GND-SHORT or VB-SHORT] [U1722]	AV-133, "DTC Logic"
U172A	R-PSHELF R-SQUAWK [OPEN, SHORT, GND-SHORT or VB-SHORT] [U172A]	AV-133, "DTC Logic"
U1725	R-PSHELF C-WOOFER [OPEN, SHORT, GND-SHORT or VB-SHORT] [U1725]	AV-134, "DTC Logic"
U190C	CORRECT MICROPHONE [U190C]	AV-135, "DTC Logic"

[BOSE AUDIO WITH NAVIGATION]

DISPLAY UNIT

Reference Value

INFOID:0000000011490651

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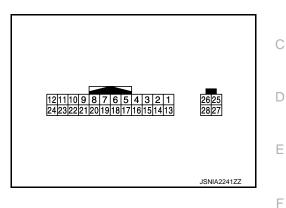
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TERMINAL LAYOUT



PHYSICAL VALUES

	minal e color)	Description			Con distant	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
6	_	Shield	_	_	_	_
7	_	Shield	_		_	_
8 (W)	Ground	Camera image signal	Input	Ignition switch ON	At rear view camera image is displayed.	(V) 0. 4 0 -0. 4
9 (SB)	Ground	Communication signal (DISP→CONT)	Output	Ignition switch ON	When adjusting display brightness.	(V) 6 4 2 0 +
10 (V)	Ground	Communication signal (CONT→DISP)	Input	Ignition switch ON	When adjusting display brightness.	(V) 6 4 2 0 +-1ms PKIB5039J
11 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
12 (B)	Ground	Ground	_	Ignition switch ON	_	0 V

DISPLAY UNIT

	minal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
18 (R)	Ground Composite image ground Ground Composite image ground Ground Composite synchronize signal — Shield	Composite image signal	Input	Ignition switch ON	At DVD image is displayed.	(V) 0. 4 0 -0. 4 -0. 4 -0. 4 -0. 4 -0. 4 -0. 4
19 (W)	Ground	Composite image ground	_	Input/ Output Ignition Input switch At DVD image is	_	0 V
20 (B)	Ground	Composite synchronizing signal	Input	switch	_	(V) 6 4 20 µ s SKIA0187E
22	_	Shield	_	_	_	_
23 (P)	Ground	ACC power supply	Input	switch	_	Battery voltage
27	_	RGB digital image signal (+)	Input	_	_	_
28	_	RGB digital image signal (–)	Input	_	_	_
29	_	_	_	_	_	_

[BOSE AUDIO WITH NAVIGATION]

BOSE AMP.

WITH ACTIVE NOISE CONTROL SYSTEM

WITH ACTIVE NOISE CONTROL SYSTEM: Reference Value

INFOID:0000000011490652

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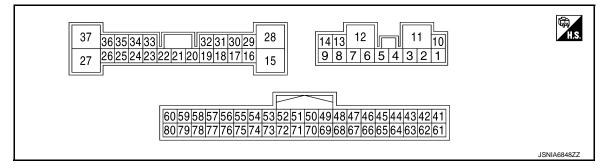
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TERMINAL LAYOUT



PHYSICAL VALUES

	minal e color)	Description			Condition	Reference value
+	_	Signal name	(Approx.)			
1 (Y)	2 (LG)	Audio signal front door speaker RH	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E
3 (SB)	4 (BR)	Audio signal front door squawker RH	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E
5 (R)	6 (G)	Audio signal front door speaker LH	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E
11 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
12 (B)	Ground	Ground	_	Ignition switch ON	_	0 V

	minal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
13 (BG)	8 (GR)	Audio signal front door squawker LH	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E
15 (W)	Ground	Woofer amp. ON signal	Output	Ignition switch ON	_	12.0 V
16 (V)	29 (LG)	Audio signal rear speaker LH	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E
17 (V)	18 (W)	Audio signal center speak- er	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E
24 (P)	35 (SB)	Audio signal woofer	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E
31 (LG)	30 (BG)	Audio signal rear speaker RH	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E
54 (R)	_	AV communication signal (L)	Input/ Output	_	_	_
56 (V)	Ground	ACC power supply	Input	Ignition switch ON	_	12.0 V

BOSE AMP.

[BOSE AUDIO WITH NAVIGATION]

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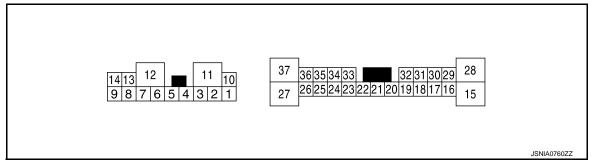
		Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
63 (R)	Signal name Input/Output 43 Rear microphone signal Input Ignition Switch ON Sound 44 (R) Voice guidance signal Input Ignition Switch ON Sound output 45 (P) Audio signal LH Input Ignition Switch ON Audio signal Audio signal RH Input Ignition Switch ON Input Ignition Switch Input Ignition Switch ON Input Ignition Input Ignition Input Ignition Input Ignition Input Input Ignition Input Input Input Ignition Input				When inputting interior sound	(V) 1 0 -1 + 2ms SKIB3609E
64 (G)		Voice guidance signal	Input	switch	Sound output	(V) 1 0 -1 + 2ms SKIB3609E
65 (L)		45 (P) Audio signal LH Input Ignition switch ON 46 (C) Audio signal RH Input Ignition switch Audio signal RH Input Input Input Ignition switch Audio Signal RH Input In		Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E	
66 (R)		Audio signal RH	RH Input switch Audio signal signal signal succession and signal		Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E
72 (SB)		Front microphone signal	Input	switch	When inputting interior sound	(V) 1 0 -1 *** 2ms SKIB3609E
74 (W)	_	AV communication signal (H)	Input/ Output		_	_
76	Ground	Step lamp signal	Input	Ignition switch	When opened any doors	0 V
(W)	32			ON	When closed all doors	12.0 V
78 (G)	Ground	Engine speed signal	Input	Ignition switch ON	Idle speed	10mSec/div 2V/div JMBIA0076GB
79	_	Shield	_	_	_	_

WITHOUT ACTIVE NOISE CONTROL SYSTEM

WITHOUT ACTIVE NOISE CONTROL SYSTEM: Reference Value

INFOID:0000000011490653

TERMINAL LAYOUT



PHYSICAL VALUES

	minal color)	Description	O and distant	Reference value		
+	-	Signal name	Input/ Output		Condition	(Approx.)
1 (R)	10 (G)	(G) speaker LH Output switch ON Audio signal ou		Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E	
2 (Y)		Audio signal front door speaker RH	Output switch		Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E
4 (BG)	5 (GR)	Audio signal front door squawker LH	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E
6 (V)	7 (LG)	Audio signal rear speaker LH	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E

BOSE AMP.

		ole iiti ettivi, tileit p			[5002 //	-						
		Description			Condition	Reference value						
+	(BR) square 14 (SB) Audio Ground Batte Ground Ground 28 (W) er 32 (P) Audio	Signal name	Input/ Output		Condition	(Approx.)						
8 (SB)		Audio signal front door squawker RH	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E						
9 (P)		Audio signal woofer	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 * + 2ms SKIB3609E						
11 (Y)	Ground	Ground Battery power supply Input Switch OFF Ground Ground — Ignition Switch OFF ON ON		Battery voltage								
12 (B)	Ground			_	0 V							
15 (V)		Audio signal center speaker	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E						
18 (L)		Audio signal front LH	Input	Ignition switch ON	Audio signal output	(V) 1 0 -1 → 2ms SKIB3609E						
19 (R)		Audio signal front RH	Input	Ignition switch ON	Audio signal output	(V) 1 0 -1 * 2ms SKIB3609E						
21 (V)	22 (SB)	Audio signal rear LH	Input	Ignition switch ON	Audio signal output	(V) 1 0 -1 *** 2ms SKIB3609E						

BOSE AMP.

	minal color)	Description			Condition	Reference value					
+	_	Signal name	Input/ Output		Condition	(Approx.)					
23 (BR)	33 (Y)	33 (Y) Audio signal rear RH Input Ignition switch ON Audio signal of ON Ground Woofer amp. ON signal Output Switch ON Ignition	Audio signal output	(V) 1 0 -1 *** 2ms SKIB3609E							
25 (W)	Ground	Woofer amp. ON signal	Output	_	12.0 V						
31 (V)	Ground	BOSE amp. ON signal	mp. ON signal Output switch ON Ignition np. ON signal Input switch —		_	11.0 V					
37 (LG)	27 (BG)	Audio signal rear speaker RH	Output	Ignition switch ON	Audio signal output	(V) 1 0 -1 + 2ms SKIB3609E					

< WIRING DIAGRAM >

[BOSE AUDIO WITH NAVIGATION]

WIRING DIAGRAM

BOSE AUDIO AND NAVIGATION SYSTEM

Wiring Diagram

NOTE:

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

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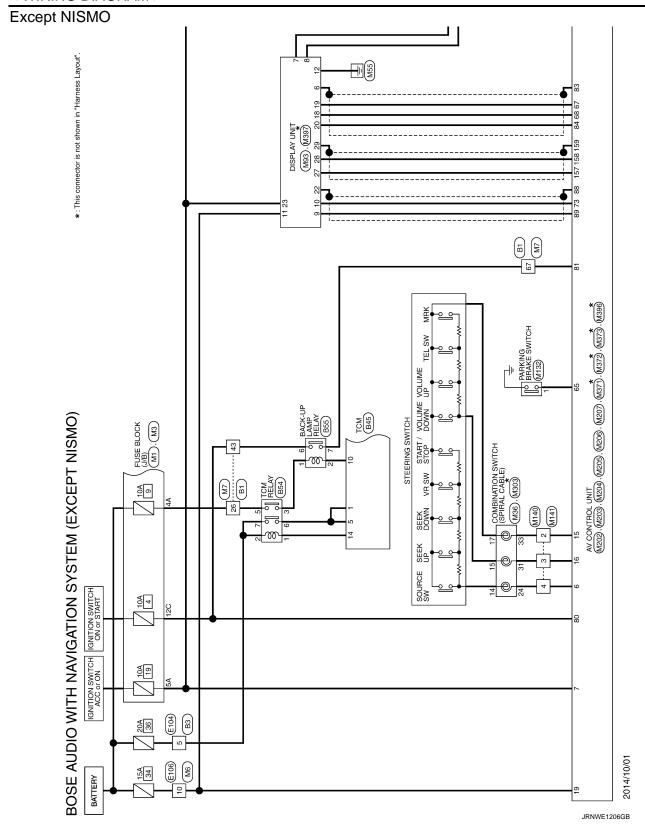
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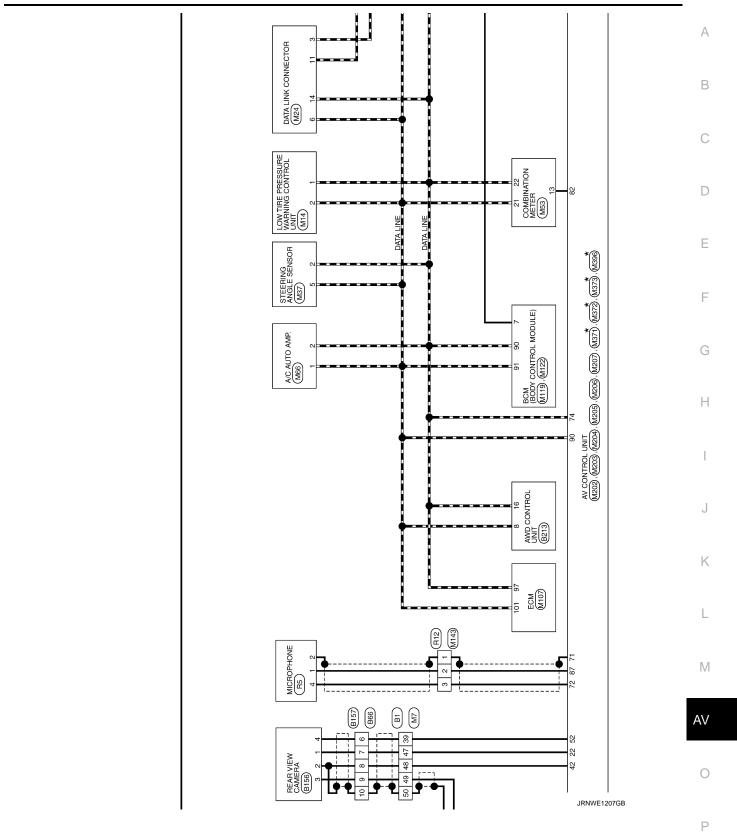
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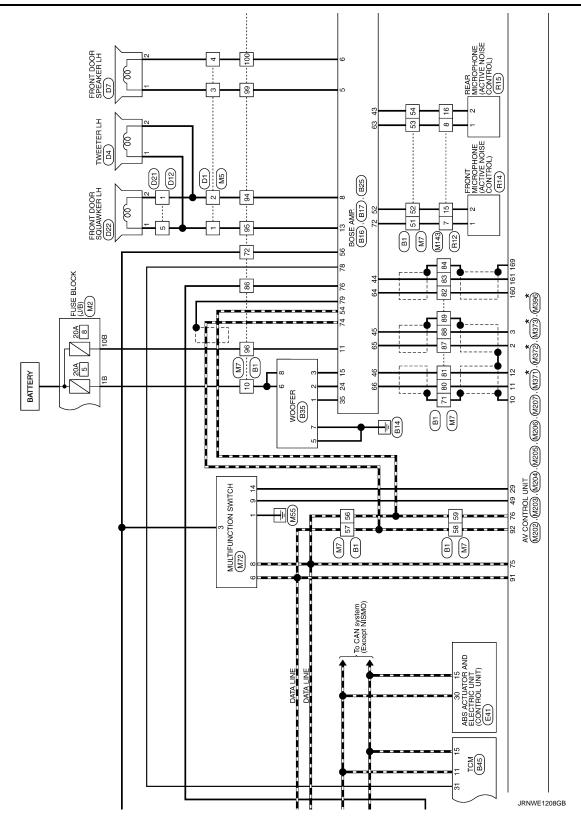
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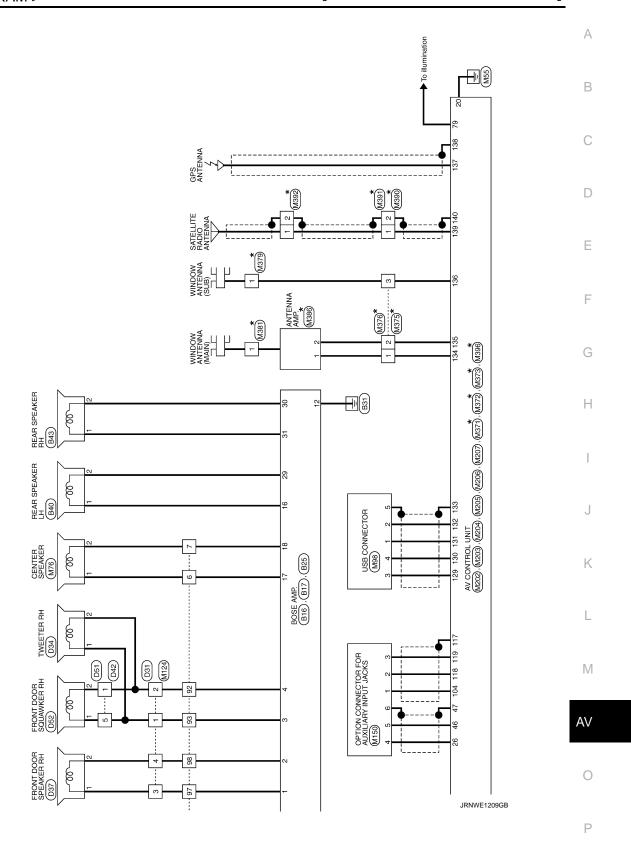
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< WIRING DIAGRAM >







4 BR ALIDIOSIGNAI FRONT DOOR SOLIAMICER BH (3)	œ (+	Y BATTER	12 B GROUND 13 BG AUDIO SIGNAL FRONT DOOR SQUAWKER LH		Connected to Ms D47			Connector Type SCA19FBR-SGA4	E		3130.29			T	Tarminal Color Of	No. Wire Signal Name [Specification]	15 W WOOFER AMP. ON SIGNAL	16 V AUDIO SIGNAL REAR SPEAKER LH	17 V AUDIO SIGNAL CENTER SPEAKER	W AUDIC	۵.	9	30 BG AUDIO SIGNAL HEAR SPEAKER RH (-)	8 8			Connector No. B25	Connector Name BOSE AMP.	Connector Type TH40FW-NH	4		<u> </u>	CS 175 35	27 27			±	
	. 9		or No. B3	Connector Name WIRE TO WIRE	or Type NS12FW-CS			5 4 3 2 1	12 11 10 9 8 7 6			erminal Color Of Signal Name [Specification]	Wire			Ha >				SB .	- IG	^	GR			or No. B16	Connector Name BOSE AMP.	Connection Time COA10FBB C 140	or type Scorist Divisions			5	8 6 5 4 3 2 1			Ferminal Color Of Signal Nama (Specification)	Wire Signal Name [Specification]	7	LG AUDIO SIGNAL FRONT DOOR SPEAKER RH (-)
g	100		Connector No.	Connecto	Connector Type	Œ	事	2				Terminal	ġ S	- 0	2 0	n =	- 52	9	7	80	6	10	=	Z		Connector No.	Connecto	2		Œ	\	10				Terminal	No.	-	2
ept NISMO)																[Mithout active active trial]	- [With active noise control unit]							[Mithout action action profit]	- [With active noise control unit]	- [With active noise control unit]	- [Without active noise control unit]		- [Without active noise control unit]	- [With active noise control unit]									
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BOSE AUDIO WITH NAVIGATION SYSTEM (Except NISMO)	Connector Name WIRE TO WIRE	Connector Type TH80FW-CS16-TM4					8 8 2 2 3 3 3		Terminal Color Of Signal Name [Specification]	t	Э Ь	· 9	+		+	# > DL :-	12 GB	H	14 Y -	15 BR .	\dashv	_	+	20 GH	╀	H	24 BG .		Ť	H	Н	32 L .	33 V	+	F	H	Ĥ	+	47 R

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Connector No. B54 Connector Name TOM RELAY Connector Type Musi-BR-R-LC	H.S. 63	No. Wire Signal Name [Specification] No. Wire No. No	
Connector No. B45 Connector Name TCM Connector Type RH40FB-RZ8-L-LH-Z	H.S. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Tomman Cobor Ol Wire Signal Name Specification Wire Wire Signal Name Specification Wire Wire Signal Name Specification Signal Name Signal Na	
SYSTEM (Except NISMO) Cornector Name REAR SPEAKER LH Cornector Type Trozzer	H.S.	Terminal Color Of New Signal Name (Specification) 1	
BOSE AUDIO WITH NAVIGATION SYSTEM (Except NISMO)		See R	

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Connector No.	B66 WIRE TO WIRE	Connector No.	Connector No. B15/ Connector Name WIRE TO WIRE	Connector No.	Connector No. D1 Connector Name WIRE TO WIRE	WIRE	Connector No. D4 Connector Name TWEETER LH
Connector Type RH10MB	e RH10MB	Connector Type RH10FB	RH10FB	Connect	Connector Type TH40FW-CS15	3315	Connector Type TK02MBR-P
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a	Of Signal Name (Specification)	lal	of Signal Name [Specification]	44	_	,	
No. Wire		No. Wire		45	>		
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eept NISMO)	OOR SQUAWKER LH 41	Mark Mark	inne (Specification) Corrector No. D34 Corrector Name TWEETER RH Corrector Type TROZMBR-P		Convector Name FROAT BOOK SEFAKE	2 W W
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BOSE AUDIO WITH NAVIGATION SYSTEM (Except NISMO) Corrector No.	Connector Name WIRE TO WIRE	H.S. H1898-W34H	Terminal Color Off Wire Signal Name [Specification] No. Wire 1 G S. R. S. S. S. R. S. S. S. R. S. S. S. R. S. S. S. S. R. S.	Connector No. D21 Connector Type TH-89MW NH Connector Type TH-89MW NH T 2 3 4 T 2 3 4	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification] Signal Name Specification]	

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NAVIGATION SYSTEM (Except NISMO)	BRA	G SEN		DP RR	SB VDC TOP POSITION LED		R DSFL				No. E104	Γ	Name WIRE TO WIRE	Connector Type NS12MW-CS				1 2 3 - 4 5	6 7 8 9 10 11 12	1 0 0 1			Color Of	Wire Signal Name [Specification]		· ·	BR .																							
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	[2] 22 22 24 24 25 [25 27 28 29 30 31 22 23 34 35] [38 59 44]		1	1 2 10 11 15 16 17 19 20	Connector No.	11/16	Connector No. IM98		
				34 38 38 38 38 38 38 40	Connector Name C	CENTER SPEAKER	Connector Name USB CONNECTER	TER	
					Connector Type	TK02FBB	Connector Type HAA04FG		
Terminal Color Of	1								
No. Wire	re Signal Name [Specification]	Terminal	nal Color Of		Œ			<u>[</u>	
-	/ BATTERY POWER SUPPLY	ž	Wire	Signal Name [Specification]				٠ -	
2 M	/ IGNITION POWER SUPPLY	-	_	CAN-H	Ċ	<u>I</u>	Ė	უ _	
3 B	GROUND	2	۵	CAN-L		2 1		2 4	
4 B	ILLUMINATION GROUND	10	_	A/C LAN SIGNAL]			
2 B	GROUND	£	œ	EACH DOOR MOTOR POWER SUPPLY				သ	
M 9	/ METER CONTROL SWITCH GROUND	15	BG	SUNLOAD SENSOR SIGNAL					
^	A/C AUTO AMP, CONNECTION RECOGNITION SIGNAL	16	æ	INTAKE SENSOR SIGNAL	Terminal Color Of	3	Terminal Color Of		
8 SB	H	17	SS	ACC POWER SUPPLY	No. Wire	Signal Name [Specification]	No. Wire Signar	Signal Name [Specification]	
H		6	╀	GROUND	-		*		
12	VEHICLE SPEED SIGNAL (2-PULSE)	8	G	IGNITION POWER SUPPLY	2 W		2		
73		24	F	ECV SIGNAL	1		6		
	DESCRIPTION OF	8	╀	INDIA IODENO GOTOM GENIO IS			+		
+	$^{+}$	3 2	,	DECOMPTION OF THE PROPERTY OF			ō		
+	T	\$ 6	- -	ALC ALLO AMP. CONNECTION RECOGNITION SKINAL			7		
ο ,	LED HEAD LAMP (RH) WARNING SIGNAL	8 8	+	AMBIENI SENSOR SIGNAL					
+	T	8	+	IN-VEHICLE SENSOR SIGNAL					
19 R	7	37	BG	SENSOR GROUND					

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BOS	≣ AL	BOSE AUDIO WITH NAVIGATION SYSTEM (Except NISMO)	SYSTEM (Except NISMO)						
Connector No.	No.	M107	Connector No.	. M119	80	GR	IMMOBI ANTENNA CONTROL	10	W	
Connector Name	Mano	200	Connector Name	MOBILE MODINE	8	_	IMMOBI ANTENNA SIGNAL	=	۸	-
000	Malle		COLLINECTOR ING.		85	а	IGN RELAY (F/B) CONT	12	W	
Connecto	Type -	Connector Type RH24FGY-RZ8-R-LH-Z	Connector Type	be NS16FW-CS	83	>	KEYLESS ENTRY RECEIVER COMM	13	re	
4			ģ		87	BB	COMBI SW INPUT 5	14	SB	
图		łF	ほ		88	>	COMBI SW INPUT 3	15	В	-
Ę		124 120 108 104	٤	2 2 2	88	BB	PUSH SW	16	В	
		\neg	2	。] `	90	Ь	CAN-L	17	G	
		114		11 13 14 15 17 18 19	91	٦	CAN-H	27 St	SHIELD	
		121 117 113 109 105 101 97			95	ΓG	KEY SLOT ILL OUTPUT	36	BR	
		1Г			93	۸	ONIND	38	W	
					92	BG	ACC RELAY CONT	40	97	
Terminal Color Of	Color O	Of Signal Name (Specification)	nal	or Of Signal Name [Specification]	96	SB	A/T SHIFT SELECTOR POWER SUPPLY	41	Ь	
Š	Wire		No. Wire	_	6	_	S/L CONDITION 1	42	BR	
6	۵	CAN COMMUNICATION LINE	4	R INTERIOR ROOM LAMP POWER SUPPLY	86	œ	S/L CONDITION 2	44		
66	SB		2	G PASSENGER DOOR UNLOCK OUTPUT	66	ŋ	SHIFT P	45	٨	
100	BB		7	Y STEP LAMP	100	>	PASSENGER DOOR REQUEST SW	46	BG	
101	٦	CAN COMMUNICATION LINE	8	V ALL DOOR, FUEL LID LOCK OUTPUT	101	>	DRIVER DOOR REQUEST SW	47	SB	-
102	G		6	G DRIVER DOOR, FUEL LID UNLOCK OUTPUT	102	BG	BLOWER FAN MOTOR RELAY CONT	48	BR	
103	GR	SENSOR GROUND	Ξ	R BAT (FUSE)	103	g	KEYLESS ENTRY RECEIVER POWER SUPPLY	20	œ	
104	۵	ACCELERATOR PEDAL POSITION SENSOR 1	\dashv	7	106	4	S/L UNIT POWER SUPPLY	42	W	
105	≥	ECM RELAY (SELF SHUT-OFF)	14 F	P PUSH-BUTTON IGNITION SW ILL GND	107	9	COMBI SW INPUT 1	22	5	
106	ГG	IGNITIO	15)	Y ACC IND	108	ж	COMBI SW INPUT 4			
107	BG	\dashv	17 V	\dashv	109	>	COMBI SW INPUT 2			
108	_	ACCELERATOR PEDAL POSITION SENSOR 2	18 B	BG TURN SIGNAL LH (FRONT) OUTPUT	110	g	HAZARD SW	Connector No.	o. M132	
109	_	SAVALVERLY	19	V ROOM LAMP TIMER CONTROL	=======================================	>	S/L UNIT COMM	Connector Name	ame PABKING BBAKE SWITCH	SWITCH
110	۵	STOP LAMP SWITCH								
111	GR	PNP SIGNAL						Connector Type	ype P01FB-A	
113	SB		Connector No.	. M122	Connec	Connector No.	M124	ą		
114	>	DATA LINK CONNECTOR	Connector Name	me BCM (BODY CONTROL MODULE)	Connec	Connector Name	WIRE TO WIRE	厚		
117	œ	ASCD BRAKE SWITCH		Т				Ě		
118	≥	POWER SUPPLY FOR ECM (BACK-UP)	Connector Type	De TH40FB-NH	Connec	Connector Type	TH40MW-CS15	li S		Ţ.
120	BB	SAPMPRLY	ģ		ą					-1
121	۵	POWER SUPPLY FOR ECM	昼		B				_]
122	>	POWER SUPPLY FOR ECM	Į.	K	Ě	_	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15			
124	В	ECM GROUND	ė	75 52 52 52 53 53 54 55 55 55 55 55	1	7				
126	_	FUEL PUMP RELAY		CO 150 SO 50 TO 80 00 00 WILLIAM STREET STRE			07/04/04 03/04/04/04/04/04/04/04/04/04/04/04/04/04/	al	_	Signal Nama [Spacification]
127	G						de loriestados	OZ	Wire	i obcomognosi
128	œ	ECM GROUND						-	>	
			-							
			No. Wire	or Of Signal Name [Specification]	lermin No	No. Wire	Signal Name [Specification]			
			t	ODOM ANES	,	>				
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			+	1	7 0	2 (
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			79 B	BR ROOM ANT1+	თ	œ				

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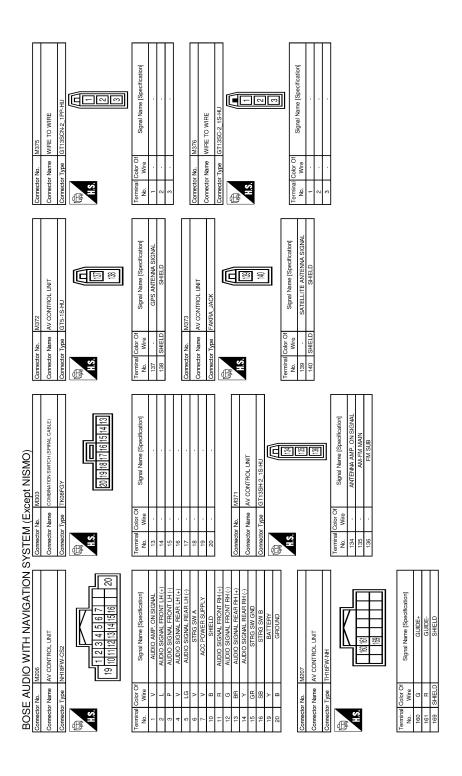
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Corrector Name Witter TO Witter

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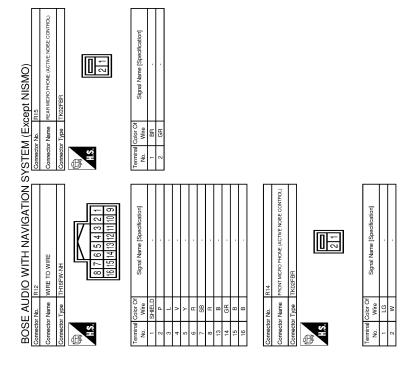
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Corrector No. M397 Corrector Name DISPLAY UNIT Corrector Name DISPLAY UNIT Response Diction of Signal Name (Specification) 27 - Res Diction in MAGE SIGNAL(1) 28 - Res Diction in MAGE SIGNAL(1) 29 - Res Diction in MAGE SIGNAL(1) Corrector No. Ris Correc	
Corrector No. M392 Corrector Name GTT16C-1PP-HU Terminal Color Of Signal Name (Specification) 1	
Terminal Color Ol Signal Name (Specification) Terminal Color Ol Signal Name (Specification) Terminal Color Ol Signal Name (Specification) Terminal Color Ol Name Wife TO WIFE Connector Name Wife Griec 15-HU Terminal Color Ol Signal Name (Specification) Name Signal Name (Specification) Name Signal Name (Specification) Name Signal Name (Specification) Terminal Color Ol Signal Name (Specification) Name Signal Name (Specification) Name Signal Name (Specification)	
BOSE AUDIO WITH NAVIGATION SYSTEM (Except NISMO) Connector Name Window AVIENA (ALI) Connector Name Window AVIENA AV	

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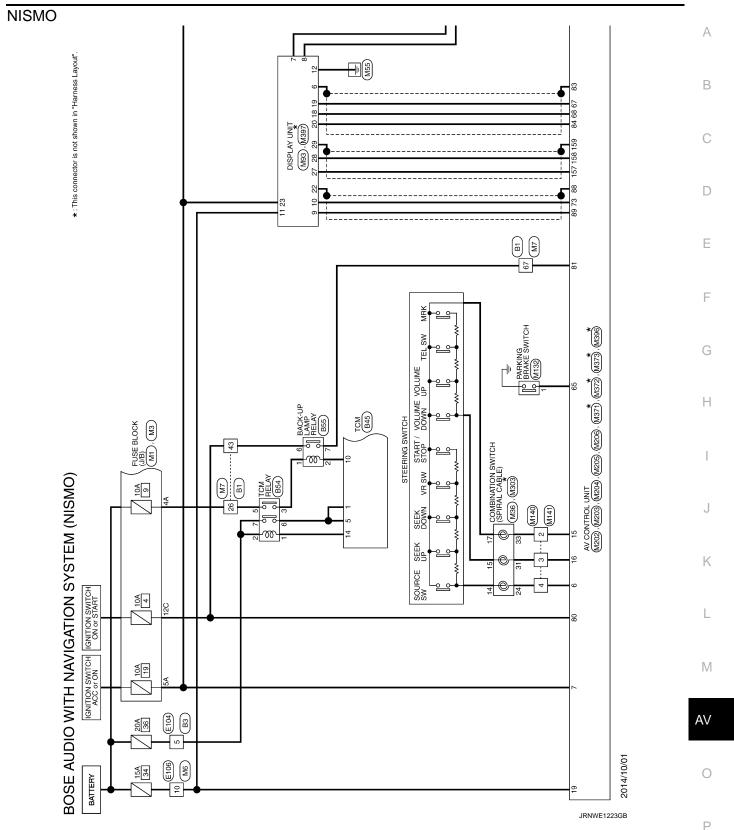
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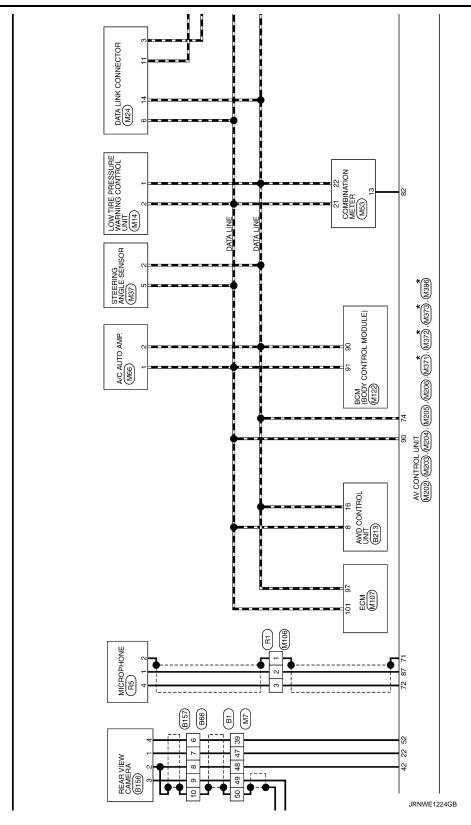


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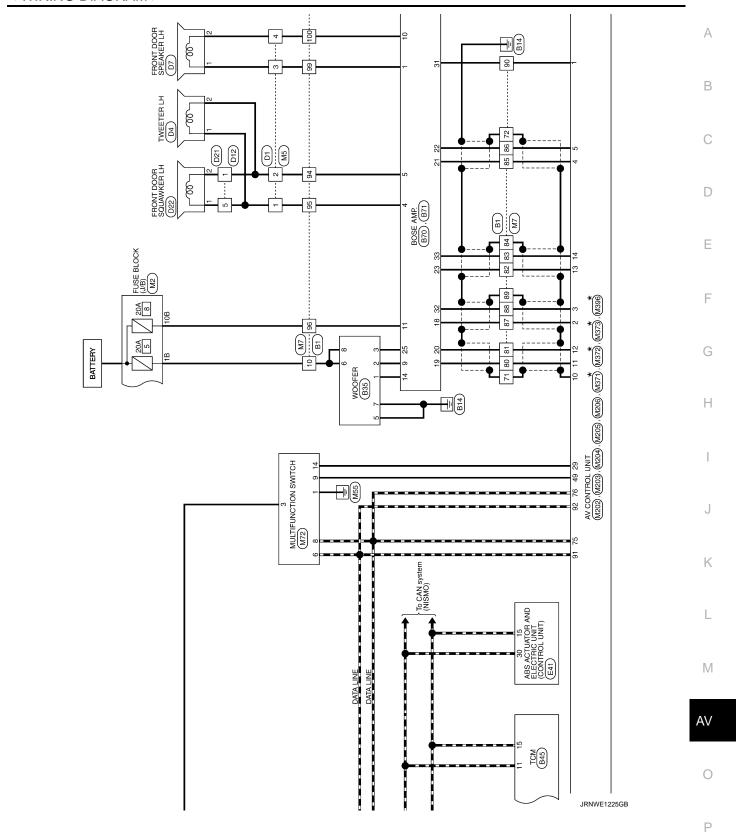
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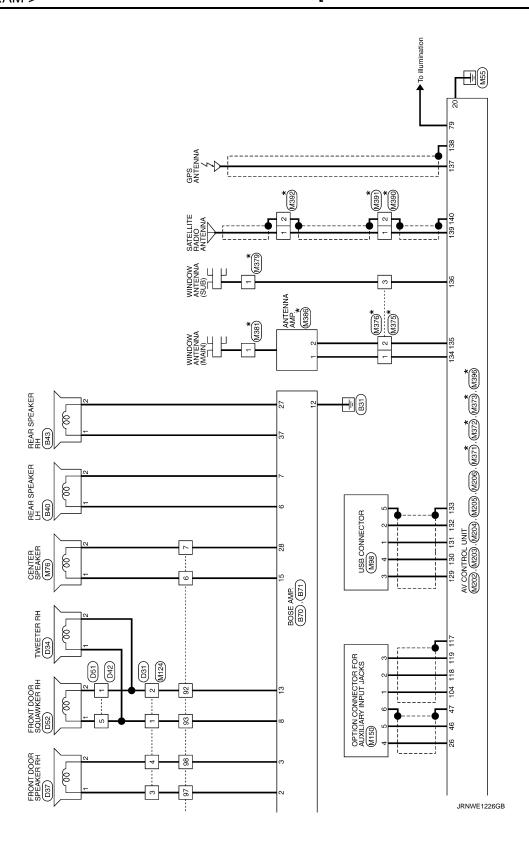




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[BOSE AUDIO WITH NAVIGATION]





[BOSE AUDIO WITH NAVIGATION]

		ž	Civic	8		F
Connector No. B1	P#	Α		SS :		201
Connector Name WIRE TO WIRE	20	SHELD		100		W W
Т	2	SB				В
Connector Type TH80FW-CS16-TM4	25					8 R BATTERY
	23	œ		Connector No.	o. B3	
3 11 11 11 11	54	m		Connector N	Connector Name WIRE TO WIRE	-
5 3	26	œ				Connector No. B40
	22	g		Connector T	Connector Type NS12FW-CS	Compater Name
90 G 90 E	28	g				
# 6 # 6 # 6 # 6 # 6 # 6 # 6 # 6 # 6	29	ш				Connector Type TK02FBR
	09	BR		Š		ú
	19	>		2	5 4 3 2 1	
*	62	SHELD			19 11 10 9 8 7 8	
	83	9			7 0 0 0 1	
	64					0 1
1 0	148	: @				
ł		, 2		Torminal Color Of	000	
+	8	£ ;		erminal	or Of Signal Name [Specification]	
+	67	g		o N	Wire	
	69	۵.		-		la O
- × 6	70	٦	-	2	BG .	No. Wire
10 R	71	SHIELD		e	BR .	> -
- 11 Y	72	SHIELD	 [Without active noise control unit] 	4	· ·	2 LG .
12 GR -	72	^	- [With active noise control unit]	2		
13 BG .	73	SB		9	,	
H	76	œ		7		Connector No. B43
15 BB	77	S.		α	SB	
╁	282	g		╁	91	Connector Name REAR SPEAKER RH
H	62	>		10		Connector Type TK02FBR
H	8	œ		Ξ	GR	
20 GB	<u>~</u>	U		╁	9	
H	85	BB	- [Without active noise control unit]			•
22 W	8	U	- [With active noise control unit]			
H	88	æ	- [With active noise control unit]	Connector No.	b. B35	2 1
24 BG .	88	>	- [Without active noise control unit]			
H	88	SHELD		Connector Name	ame WOOFER	
- d 98	158	>		Connector T	Connector Type NS08FBR-CS	
- 6	8 8	. 6	DAGRee of poting point production			Tarminal Color Of
28 BG	8 8	9 %	- [Without active hoise control mit]	Œ		No Wire Signal Name [Specification]
200	1		The result of the second of th	手		+
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+	* 	1			1	2 BG -
33 V	88	SHIELD	-		1 3 2 7	
34 BG .	06	۸			11	
39 G	92	æ				
Ē	83	SB				
H	94	GR		Terminal Color Of		
42 SB	32	8		No.	Wire Signal Name [Specification]	
43 P	96	>		t	L	
╀	97	>			P SOUND SIGNAL WOOFER (+)	
ł	8			ı (**	-	
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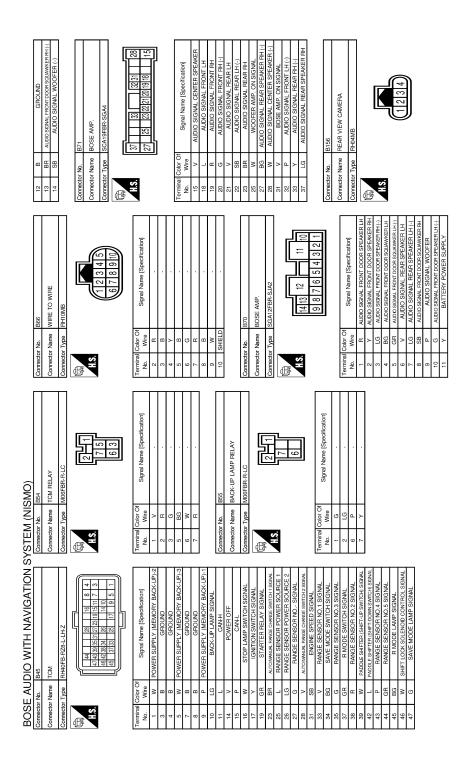
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[BOSE AUDIO WITH NAVIGATION]

	Connector No. D12	Connector Name WIRE TO WIRE	Connector Type TH08FW-NH			4 3 2 1	8 7 6 5		Terminal Color Of Signal Name [Specification]	$^{+}$	2 R	3 LG .	ш >- 10 00	7 V		Connector No. D21	1	Comector Name Wine IO WINE	Connector Type TH08MW-NH	[C	~	5 6 7 8		Touminal Color Of		0	Н	_	+	· · ·	+							
	50 R .	╁		Connector No D4	l e	Connector Type TK02MBB-P	Œ.		1.5.				Terminal Color Of Signal Name [Specification]	1 B			Connector No. D7	Connector Name FRONT DOOR SPEAKER LH (WITH BOSE AUDIO)		Connector Type NS02FBR-CS	Œ	AHITA AHITA		2 1]		Terminal Color Of	No. Wire Signal Name [Specification]	Н	2 W										
SYSTEM (NISMO)	7 W IGN	- ×	H	11 B GROUND	-	Connector No. D1	Connector Name WIRE TO WIRE	Connector Type TH40FW-CS15	Œ	ī	2 2 4 6 9 7 9 8 11 12 12 14 10 1	स्वर्धान्त्र स्वरत्य स्वर्धान्त्र स्वरत्य स्			Terminal Color Of Signal Name [Specification]	+	2 0	Н	W 4	> 0		+	10 W	H	+	13 LG	+	┞	П	ά	38 0	+	+	+	+	╀	45 Y .	+	. V 47	48 LG
BOSE AUDIO WITH NAVIGATION SYSTEM (NISMO)	Terminal Color Of Signal Name [Specification]	1 R CAMERA POWER SUPPLY	В	3 W CAMERA:	- - - -	Connector No. B157	Connector Name WIRE TO WIRE	Connector Type RH10FB	€		H.S.	ıĮ١	9 2 8 2 8		Terminal Color Of Signal Name [Specification]	+	H	Н	+			+	10 SHIELD .			Connector No. B213	Connector Name AWD CONTROL UNIT	Connector Type TH16FW-NH	ά			1 2 6 7 8	94			Terminal Color Of	ognal Na	œ	2 G SOL-	

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Connector No. D22	38	W Connector No. D42		Connector No.	D52
Connector Name FRONT DOOR SQUAWKER LH	40	LG Connector Name WIRE TO WIRE	TO WIRE	Connector Nan	Connector Name FRONT DOOR SQUAWKER RH
Connector Type TK02EBB	4 6	BB THOSEM,NH	HN-WG	Connector Type	TKOSEBB
	4				
	45		E	F	
	46			Ě	
	47		4 3 2 1	E.G.	<u>]</u>
2.1	84 5	·	1 0		2.1
]	200	r 3	0 / 0]
	1 18				
al Color Of		Terminal	Signal Name (Specification)	Terminal Color Of	
Signal Name		No. Wire	ognal vame [opecification]	No. Wire	ognal Name [opecification]
Н	Connector No.	tor No. D34 1 G			
	Jacob	Connector Name TAMEETER BH		2 G	
		3 LG			
	Connec	Connector Type TK02MBR-P 5 R			
Connector No. D31	þ	. ✓ 9	,	Connector No.	E41
Connector Name WIBF TO WIBF	彦	\ \ \ \ \		Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
	H				
Connector Type TH40FW-CS15				Connector Type	Connector Type AEZ43FB-AJZ4
1		Z 1 Connector No. D51		Q	
		Connector Name WIRE	WIRE TO WIRE	事	
HS. 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1		Commenter Time THOSM	HINTANASOHE	H.S.	47 46 45 44 43 42 38 37 38 37 38 33 32
464544434241403933135 21	Terminal	Color Of			30 23 27 28
(5154 60) 525 1, 904 8 48 47 (5154 50) 525 1, 504 53 50 51	Ź	Signal Name [Specification]			10 15 11 6 4 3 2 1
	-				
	2		1 0 0 1		
Terminal Color Of Signal Name (Specification)			2 1	Terminal Color Of	Of Signal Name [Specification]
+	,	Γ	8 / 9 6	+	
+	Connector No.	Τ		- 0	UBMH
+	Connec	Connector Name FRONT DOOR SPEAKER RH (WITH BOSE AUDIO)		> 0	-
- N	Joans	No Notober Control No Wire	Signal Name [Specification]	\dagger	
╀				+	VDC IIP SW
H	Œ		,	-	TANT
^ 8	-	97 8		15 P	CAN-L
	ŠĖ	5		16 B	GROUND
┝		╀		╀	CAN-L
H		<u> </u>			G SEN
12 0				H	
13 LG				30	CAN-H
14 SB -	Termin	ļ		32 BG	UBVR
15 B	ġ	Wire Signal Name [Specification]		┝	
16 R .	-			34 BG	DP FR
	5			35 Y	VDC TOP POSITION LED
27 SHIELD .				36 L	DP RL
36 0 -				37 R	DS RL

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	Connector No. M1	COLLECTO NAME TO SE DECON (3/D)	Connector Type NS06FW-M2	ó]	HI HZ	2 2 00 4 2	8A / A DA DA 4A]			Lerminal Color Of Signal Name [Specification]	Wire	1A V	2A G	ł	+	4A LG .		>	╀	r W				Connection No.	Т	Connector Name FUSE BLOCK (J/B)		Connector Type NS10FW-CS		₫.				00 05 00	gc go g/gg gc gi				Terminal Color Of	Signal Name [Specification]	+	4	18 R	L	L	F	+	+	7B R .	8B R	. 8S 86	ł																																																													1	-		H	r
ŀ	38 SE	H	+	42 V		44 BR	H	: 8	+	48 BG	- 49 L	a US		7		- · · · · · · · · · · · · · · · · · · ·	71	ł	- ap 7/	74 P	75 BR -	L	╀	· · · · · · · · · · · · · · · · · · ·	\dashv	. M 62	× 08		$^{+}$	4	- 84 P		ľ		4	- 1 88	- BB	ł	$^{+}$	91 GR	_	H		+	5 68	96 GR	97 L	- 51 86	┝	╀	4																																																																						
TEM (NISMO)	Connector No. E105		Connector Type TH80FW-CS16-TM4					2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3						lerminal Color Of Signal Name [Specification]		٠ .	BG .		+		- d- 9	H	╀		+		-11 SB		+	+	14 L	- SB	$^{+}$	+	1/ SMELU .	18 L	- L	ŀ	$^{+}$	21 Y -	22 V	H	7	> (22 BH	26 L .	φ		┝	╀	+	4	\dashv	33 GR .	34 P	35 LG	╀	5 2	4																				4	_	_	_	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	╀	╀	ł	╀	╀	╀	ł	ł	+	4	_	_	_	_	ł	-		L	ŀ	4	_	_	ŀ	5
UDIO WITH NAVIGATION SY	G SENSOR POWER	DS RR	DP RR	VDC TOP POSITION LED		DSFL	GROUND	$\left\{ \right.$			E104	Γ	WIRE TO WIRE		NS12MW-CS				1 0 0 1		S 7 8 9 10 11 19	2				r Of	Signal Name (Sp																	1	1						1					1	1	1		ı																		ı	J																											1											1				
BOSE A	39 6	Н	43 LG	\dashv	-		┝	$\left\{ \right.$			Connector No.		Connector Name		Connector Type		Œ	1	٧ <u>-</u>							Terminal Color Of	No. Wire	,	$^{+}$	+	3	7		+	+		8	ľ	+	10	11 L	45	$\left\{ \right.$																																																																														

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	BOSE AUDIO WITH NAVIGATION SYSTEM (NISMO)	SYSTI	Z E W - U E	(OMSII)	61	۵		8	c		
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The control of the		ĕ	_		23	٦		93	PI		
The control of the		4	Н		24	۸		94	Μ		
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Sign Not Convector Note Note Convector Note Note Convector Note Note Convector Note Note Convector Note		4	H		32	ŋ					
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Cornector No. Mis Mis Cornector No. Mis Mis Cornector No. Mis Mis Cornector No. Mis Mis Cornector No. Mis					36	7	1	Connec	tor Type	TH80MW-CS16-TM4	
Connector Name Mile Connector Name Connec		Ļ			9/	A :		q		d	
Connector Name WIRE TO WIRE Connector Name Connec		Coli	ector No.	$\overline{}$	88 8	> 8		事			
Convector Type The BMW CS16 TMA		Conr	ector Nam		40	. B		S.E		200	
Terminal Color OI No. Wire Specification 1	M5	Ö	ector Type	Т	41	>			1		
Terminal Color Of Signal Name Specification 10 V 10 V				1	42	æ					
THYONW CSTS THYON CSTS TH	WIRE TO WIRE	Œ	_		43	>					
1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1	П	*	٠		44	BR]	
The control of the		1	2		45	g		Termin		Signal Name [Specification]	
1 1 2 3 4 5 7 8 9 9 9 9 9 9 9 9 9					46	၅ :		ġ.	Wire		
The control of the	œ				\$	\$		×	1		
Signat Name Specification Signat Name Signat Name Specification Signat Name Signa	=			9	50	۵ د		e (c	۰ ـ		
No. Wire Signal Name [Specification] 6.0 SB W W Signal Name [Specification] 2 H 7.1 W 10 R W Signal Name [Specification] 2 H 7.2 LG 10 R 10 R 10 R 10 R 12 SB 12 SB 12 SB		Term			51	SHIELD		_	*		
Sgyrat Name [Specification] 1 L C<		ž			09	SB		80	Μ		
Signal Mahne (Spootlication) 2 R 71 W . 10 R 6 Y . 72 LB . 12 SB 7 Y . . 72 LB . 12 SB 8 Y . . 72 RB . 14 W 10 Y .			1		61	۸	•	6	g		
Continue c	Signal Namo	e	+		71	8		10	œ		
Y 74 R 12 SB	Olima militio	4	\dashv		72	P		Ξ	>		
6 P C P To BR To 113 G 1 W To		4)		•	74	н		12	SB		
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JRNWE1232GB

[BOSE AUDIO WITH NAVIGATION]

Cornector No. M37 Cornector Name STEERING ANGLE SENSOR Cornector Type THOSEW/NH	Terminal Color Of Signal Name (Specification)	B GROUND 2 P CAN-L 4 BG IGN 5 L CAN-H Corrector No. MIS3 Corrector Name COMBINATION METER COrrector Type SAB40FW		Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification]	SB AMBIENT SENSOR GROUND
G FLASHER SIG B GROUND IOT No. M24	Connector Name DATA LINK CONNECTOR Connector Type BD18FW Connector Type B185FW (11 11 14 16 18 18 18 18 18 18 18 18 18 18 18 18 18	Color Or Signal Name (Specification) No. Wire Signal Name (Specification) No. Wire Signal Name (Specification) No. Wire No. Wir	14 P	Corrector Type TY08FGY-1V	As a continued Codor Critical Name (Specification) No. Wire No. Wire Signal Name (Specification) 25 C C 25 C C 31 SB 32 CR W W 33 CR W W 34 W
SMO) - [With active roise control unit] 30 0	Connecto Connecto Connecto THS.	M14 LOW THE PRESSURE WARNING CONTROL UNIT THEZEWANN Signal Name [Specification]	HR TUNER (SIG) FR TUNER (SIG) FR TUNER (SIG) FR TUNER (SIG) HR TUNER (SIG) HR TUNER (PWR) RI TUNER (PWR) FR TUNER (PWR) FR TUNER (PWR) SW SIG	IGN RR TUNER (RSS) RL TUNER (RSS) FL TUNER (RSS) FL TUNER (RSS) RR TUNER (RSN) RR TUNER (RSN) FR TUNER (RSN) FR TUNER (RN)	
SYSTEM (NIS	992 LG 994 G G 995 P R 996 G G 998 G G R	Connector No. Connector Name Connector Type	Terminal Color Of No. Wire	2	
BOSE AUDIO WITH NAVIGATION SYSTEM (NISMO) 27				· [Without active noise control unit] · [With active noise control unit]	Without active roise control unal With active noise control unal With active noise control unal Without active noise control unal Without active noise control unal
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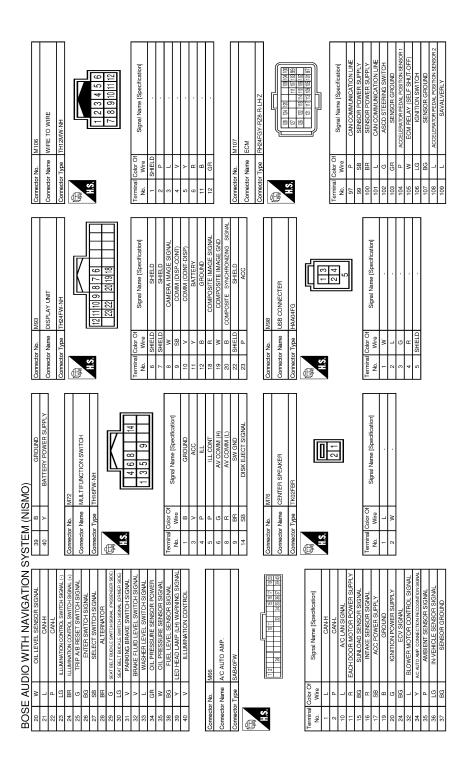
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JRNWE1233GB

Revision: 2015 June AV-85 GT-R



JRNWE1234GB

[BOSE AUDIO WITH NAVIGATION]

	Connector No. M141	Connector Name WIRE TO WIRE	_	Connector Type TH04MW-NH	Œ.	(A)	<u> </u>	<u> </u>	1 2 3 4				Terminal Color Of Signal Name [Specification] No. Wire	2 GR	3 SB	4 V 4		Connector No M450		CONTRECTOR INSTITUTE OF HON CONNECTOR FOR ADMINISTRATION SALES	Connector Type TH08MW-NH	1	A A A A A A A A A A A A A A A A A A A	6 4 2	5 3 1			Signal Name [Specification]	t		: a		5 R AUX IMAGE GND	6 SHIELD SHIELD											
ŀ	42 BR .	44 L -	_	+	+	+	+	+	55 G			COLLINECTOR INC. INTISZ	Connector Name PARKING BRAKE SWITCH	Connector Type P01FB-A		E	H.S.	-]			Terminal Color Of Signal Name [Specification]	NO. WILE		Connector No. M140	Connector Name WIRE TO WIRE		Connector Type TH04FW-NH				4 3 2 1	ΙŒ			듈	Wire	+	+	4 V .					
_		S/L o	ŋ	W	> 0	5g :	LG KEYLE	- Sil	4	ar :	+	5 :	111 Y S/L UNIT COMM		Connector No. M124	Connector Name WIBE TO WIBE		٦.		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		[15] [16] [18] A A LACT CACA CACA CACA		Terminal Color Of Simulation (Securities)	No. Wire olginal realine [openmeation]	+	+	+	5 >		. 8		10 W .	- 11 V	12 W ·	\dashv	7	+	+	┪	S	+	+	7	41 P .
BOSE AUDIO WITH NAVIGATION SYSTEM (NISMO)	STOP LA	4		_	+	POWER SUP	1	+	V POWER SUPPLY FOR ECM	B ECM GROUND	$^{+}$	INCO ILLE COIN	B ECM GROUND		Jo. M122	Connector Name BCM (BODY CONTBO! MODI!! E)	CONTRACTOR NIT	7			61 메일메일 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25 55 55 55 56 57 57 57 5		olor Of Stand Manage 15	oighai ivairie		_	SB PASSENGER DOOR ANT-	V DBIVER DOOR ANT.			BR ROOM ANT1+	GR IMMOBI ANTENNA CONTROL	L IMMOBI ANTENNA SIGNAL	R IGN RELAY (F/B) CONT	Y KEYLESS ENTRY RECEIVER COMM		NOS		P CAN-L		. KEY SI			SB A/T SHIFT SELECTOR POWER SUPPLY
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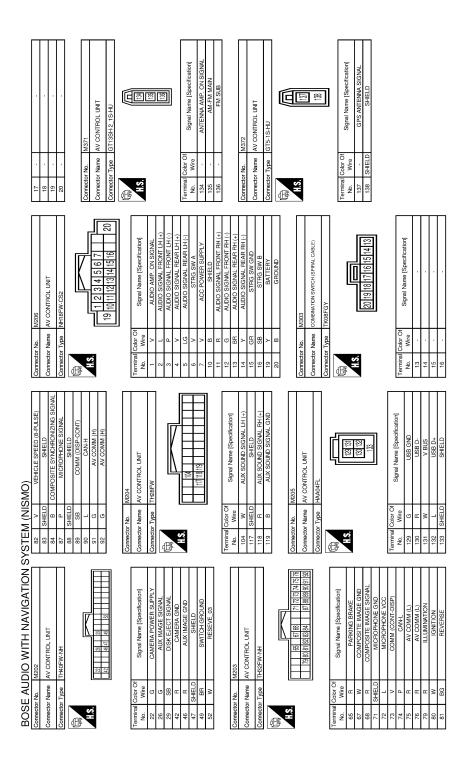
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Revision: 2015 June AV-87 GT-R



JRNWE1236GB

[BOSE AUDIO WITH NAVIGATION]

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Terminal Color Of Signal Name (Specification) 1	
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Revision: 2015 June AV-89 GT-R

< WIRING DIAGRAM >

YSTEM (NISMO) Connector No. R1	Connector Name WIRE TO WIRE Connector Type TH12FW-NH	H.S. 6 5 4 3 2 1 1 121110 9 8 7	Terminal Color Of Signal Name [Specification]	1 SHIELD .	+	4 V		6 R	11 B .	┨	Connector No. R5	Connector Name MICROPHONE	Connector Type TK04FW	1	IIS.			Terminal Color Of Signal Name [Specification] No.	1 P MICROPHONE SIGNAL	2 SHIELD MICROPHONE GND	4 L MICROPHONE VCC
BOSE AUDIO WITH NAVIGATION SYSTEM (NISMO) Connector No. Masse	Connector Name AV CONTROL UNIT Connector Type GT17HN2-4DS-HU	H.S.	Terminal Color Of Signal Name [Specification] No. Wire	157 - RGB DIGITAL IMAGE SIGNAL(+)			Ī	Connector No. M397	Connector Name DISPLAY UNIT	Connector Type GT17HNN-4DS-HU		<u> </u>		77,877	Terminal Color Of Signal Name (Specification) No. Wire	╁	28 - RGB DIGITAL IMAGE SIGNAL(-)				

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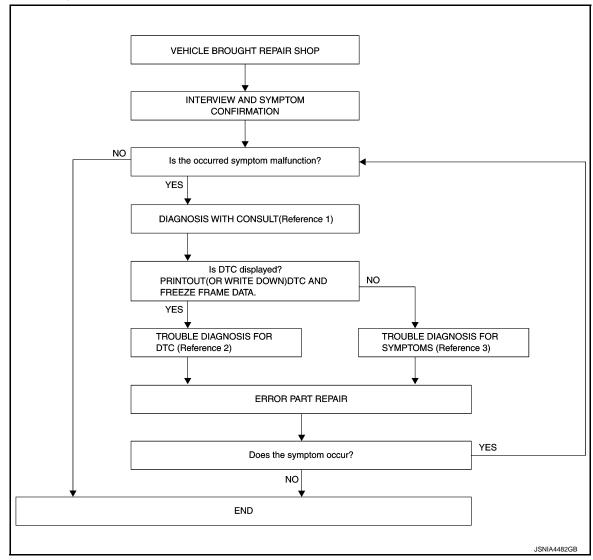
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



- Reference 1... Refer to <u>AV-34, "CONSULT Function (MULTI AV)"</u>.
- Reference 2··· Refer to <u>AV-47, "DTC Index"</u>.
- Reference 3... Refer to AV-153, "Symptom Table".

DETAILS OF TROUBLE DIAGNOSIS FLOWCHART

1.QUESTIONNAIRE & CHECK SYMPTOM

Check the malfunction symptoms when the customer brings the vehicle in by performing the following items.

- Interview the customer to obtain the malfunction information. (When, Where, What, How, How often, What happened, etc.)
- Check the symptom.

Is the symptom judged as a malfunction?

YES >> GO TO 2.

NO >> Symptom by normal operation. Refer to <u>AV-153, "Symptom Table"</u>.

2.self-diagnosis (consult)

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[BOSE AUDIO WITH NAVIGATION]

 Connect CONSULT and perform a self-diagnosis for "MULTI AV". Refer to <u>AV-34, "CONSULT Function</u> (<u>MULTI AV)"</u>.

NOTE:

If "MULTI AV" is not displayed, check AV control unit power supply and ground circuit. Refer to <u>AV-137</u>, "AV CONTROL UNIT: Diagnosis Procedure".

- 2. When DTC is detected, follow the instructions below:
- Record DTC and Freeze Frame Data.

Is DTC displayed?

- YES >> Perform the relevant diagnosis referring to the DTC order list, and then GO TO 3. Refer to <u>AV-47</u>, "<u>DTC Index</u>".
- NO >> Perform the relevant symptom diagnosis referring to the Diagnosis Chart by Symptom, and then GO TO 3. Refer to AV-153, "Symptom Table".

3. REPAIR OR REPLACE MALFUNCTIONING PARTS

- 1. Repair or replace the identified malfunctioning parts.
- 2. Erase the stored self-diagnosis results after repairing or replacing the relevant components if any DTC is indicated in the self-diagnosis results.

After finishing work>>GO TO 4.

4. FINAL CHECK

Description of check

- Check that the symptom is resolved.
- · Check if any other malfunctions are present.

Are check results normal?

YES >> INSPECTION END

NO >> GO TO 2.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[BOSE AUDIO WITH NAVIGATION]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000011490656

BEFORE REPLACEMENT

When replacing AV control unit, save or print current vehicle specification with CONSULT configuration before replacement. Refer to AV-93, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

AFTER REPLACEMENT

CAUTION:

When replacing AV control unit, you must perform "After Replace ECU" or "Manual Configuration" with CONSULT.

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

INFOID:0000000011490657

1.SAVING VEHICLE SPECIFICATION

(P)CONSULT Configuration

Perform "Before Replace ECU" to save or print current vehicle specification. Refer to AV-93, "CONFIGURA-TION (AV CONTROL UNIT): Description".

If "Before Replace ECU" can not be used, use the "Manual Configuration".

>> GO TO 2.

2 .REPLACE AV CONTROL UNIT

Replace AV control unit. Refer to AV-166, "Removal and Installation".

>> GO TO 3.

3.WRITING VEHICLE SPECIFICATION

(P)CONSULT Configuration

Perform "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to AV-94, "CON-FIGURATION (AV CONTROL UNIT): Special Repair Requirement".

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>> 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.

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>> WORK END

CONFIGURATION (AV CONTROL UNIT)

CONFIGURATION (AV CONTROL UNIT): Description

INFOID:0000000011490658

- · Since vehicle specifications are not included in the AV control unit after replacement, it is required to write vehicle specifications with CONSULT. Refer to AV-94, "CONFIGURATION (AV CONTROL UNIT): Special Repair Requirement".
- The AV control unit configuration includes functions as follows.

INSPECTION AND ADJUSTMENT

[BOSE AUDIO WITH NAVIGATION]

< BASIC INSPECTION >

Fu	nction	Description
Read/Write Configuration	Before Replace ECU	Allows the reading of vehicle specification written in AV control unit to store the specification in CONSULT.
Read/White Configuration	After Replace ECU	Allows the writing of the vehicle information stored in CONSULT into the AV control unit.
Manual Configuration		Allows the writing of the vehicle specification into the AV control unit by hand.

CONFIGURATION (AV CONTROL UNIT): Special Repair Requirement

INFOID:0000000011490659

1. WRITE VEHICLE SPECIFICATION

(P)CONSULT Configuration

Write vehicle specification into AV control unit.

To write vehicle specification stored in CONSULT into the AV control unit>>GO TO 2.

To write vehicle specification into the AV control unit by hand>>GO TO 3.

2. WRITE STORED DATA

(P)CONSULT Configuration

Select "After Replace ECU" in "Read/Write Configuration". Write data stored in CONSULT with the "Before Replace ECU" function into the AV control unit.

>> GO TO 4.

3. MANUALLY WRITE VEHICLE SPECIFICATION

©CONSULT Configuration

Perform "Manual Configuration". Refer to AV-94, "CONFIGURATION (AV CONTROL UNIT): Configuration List".

NOTE:

If selection items are not displayed on the CONSULT screen, touch "NEXT".

>> 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 List

INFOID:0000000011490660

CAUTION:

Grasp vehicle specifications precisely. The control of ECU may not function normally if the specifications are misread.

NOTE:

- The items shown in this list depend on vehicle specifications.
- The config list may not be displayed depending on vehicle specifications. This is not a malfunction.

MANUAL SE	ETTING ITEM
Items	Setting value
STEERING	LHD
STEERING	RHD
CAMERA SYSTEM	NONE/AVM
CAMERA STSTEM	REAR

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[BOSE AUDIO WITH NAVIGATION]

MANUAL SETTING ITEM		
Items Setting value		
D-OP CAMERA	With	
D-OF CAMERA	Without	
ANC	With	
ANC	Without	

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000011490661

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

CAN Communication Signal Chart. Refer to LAN-24, "CAN System Specification Chart".

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CON- SULT	DTC detection condition	Probable malfunction location
U1000	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:0000000011490663

1.PERFORM SELF-DIAGNOSTIC

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

Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to "LAN system". Refer to LAN-15, "Trouble Diagnosis Flow Chart".

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

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CON- SULT	DTC detection condition	Probable malfunction factor
U1010	CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

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U1200 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1200 AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1200	Cont Unit [U1200]	AV control unit malfunction is detected.	Replace the AV control unit if the mal- function occurs constantly.

U1201 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1201 AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1201	GYRO NO CONN [U1201]	AV control unit malfunction is detected.	Replace the AV control unit if the mal- function occurs constantly.

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U1202 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1202 AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1202	G-SENSOR NO CONN [U1202]	AV control unit malfunction is detected.	Replace the AV control unit if the mal- function occurs constantly.

U1204 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1204 AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1204	GPS CONN [U1204]	GPS malfunction is detected.	An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly.

Diagnosis Procedure

INFOID:0000000011490669

1. PERFORM THE SELF-DIAGNOSIS

- 1. Delete the self-diagnosis results. Turn ignition switch OFF.
- 2. Turn ignition switch ON. Perform the self-diagnosis again.
- 3. Check that the DTC is detected again.

Is any DTC detected?

YES >> Replace AV control unit.

NO >> An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs.

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U1205 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1205 AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1205	GPS ROM [U1205]	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.

Diagnosis Procedure

INFOID:0000000011490671

1.PERFORM THE SELF-DIAGNOSIS

- 1. Delete the self-diagnosis results. Turn ignition switch OFF.
- 2. Turn ignition switch ON. Perform the self-diagnosis again.
- Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
- NO >> An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs.

U1206 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1206 AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1206	GPS RAM [U1206]	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.

Diagnosis Procedure

INFOID:0000000011490673

1. PERFORM THE SELF-DIAGNOSIS

- 1. Delete the self-diagnosis results. Turn ignition switch OFF.
- 2. Turn ignition switch ON. Perform the self-diagnosis again.
- 3. Check that the DTC is detected again.

Is any DTC detected?

YES >> Replace AV control unit.

NO >> An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs.

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U1207 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1207 AV CONTROL UNIT

DTC Logic (INFOID:0000000011490674

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1207	GPS RTC [U1207]	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.

Diagnosis Procedure

INFOID:0000000011490675

1. PERFORM THE SELF-DIAGNOSIS

- 1. Delete the self-diagnosis results. Turn ignition switch OFF.
- 2. Turn ignition switch ON. Perform the self-diagnosis again.
- 3. Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
- NO >> An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs.

U1216 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1216 AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1216	CAN CONT [U1216]	AV control unit malfunction is detected.	Replace the AV control unit if the mal- function occurs constantly.

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U1217 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1217 AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1217	BLUETOOTH MODULE [U1217]	AV control unit malfunction is detected.	Replace the AV control unit if the mal- function occurs constantly.

U1218 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1218 AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1218	HDD CONN [U1218]	AV control unit malfunction is detected.	Replace the AV control unit if the mal- function occurs constantly.

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U1219 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1219 AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1219	HDD READ [U1219]	AV control unit malfunction is detected.	Replace the AV control unit if the mal- function occurs constantly.

U121A AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121A AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U121A	HDD WRITE [U121A]	AV control unit malfunction is detected.	Replace the AV control unit if the mal- function occurs constantly.

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U121B AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121B AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U121B	HDD COMM [U121B]	AV control unit malfunction is detected.	Replace the AV control unit if the mal- function occurs constantly.

U121C AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121C AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U121C	HDD ACCESS [U121C]	AV control unit malfunction is detected.	Replace the AV control unit if the mal- function occurs constantly.

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U121D AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121D AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U121D	DSP CONN [U121D]	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.

Diagnosis Procedure

INFOID:0000000011490684

1. CHECK PLAYBACK OF A DISK (CD)

Can a disk (CD) be played?

YES >> Malfunction may be detected transitory.

NO >> Replace AV control unit.

U121E AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121E AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U121E	DSP COMM [U121E]	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.

Diagnosis Procedure

INFOID:0000000011490686

1. CHECK PLAYBACK OF A DISK (CD)

Can a disk (CD) be played?

YES >> Malfunction may be detected transitory.

NO >> Replace AV control unit.

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U1225 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1225 AV CONTROL UNIT

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CON- SULT	DTC detection condition	Possible malfunction factor
U1225	USB CONTROLLER [U1225]	USB connection malfunction is detected.	Check that the connection to the USB connector is normal.

U1227 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1227 AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1227	DVD COMM [U1227]	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.

Diagnosis Procedure

INFOID:0000000011490689

1. CHECK PLAYBACK OF A DISK (DVD)

Can a disc (DVD) be played?

YES >> Malfunction may be detected transitory.

NO >> Replace AV control unit.

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U1228 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1228 AV CONTROL UNIT

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CON- SULT	DTC detection condition	Possible malfunction factor
U1228	SUB CPU CONN [U1228]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

U1229 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1229 AV CONTROL UNIT

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CON- SULT	DTC detection condition	Possible malfunction factor
U1229	iPod CERTIFICATION [U1229]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

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U122A AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U122A AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Action to take
U122A	CONFIG UNFINISH [U122A]	The writing of configuration data is incomplete.	Write configuration data with CON-SULT.

Diagnosis Procedure

INFOID:0000000011490693

1.PERFORM THE SELF-DIAGNOSIS

When U122A is detected, write configuration data with CONSULT.

>> Write configuration data with CONSULT. Refer to <u>AV-94, "CONFIGURATION (AV CONTROL UNIT) : Special Repair Requirement"</u>.

U122E AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U122E AV CONTROL UNIT

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CON- SULT	DTC detection condition	Possible malfunction factor
U122E	Built-in AUDIO CONN [U122E]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

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U1231 BOSE AMP.

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1231 BOSE AMP.

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1231	AMP TEMP [U1231]	BOSE amp. malfunction is detected.	Replace the BOSE amp. if the mal- function occurs constantly. Refer to AV-175, "Removal and In- stallation".

U1232 STEERING ANGLE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1232 STEERING ANGLE SENSOR

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1232	ST ANGLE SEN CALIB [1232]	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.

Diagnosis Procedure

INFOID:0000000011490697

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.

>> Adjust the predictive course line center position of the steering angle sensor. Refer to BRC-9. "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION: Special Repair Requirement (GT-R certified NISSAN dealer)".

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[BOSE AUDIO WITH NAVIGATION]

U1243 DISPLAY UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1243	FRONT DISP CONN [U1243]	When either one of the following items are detected: display unit power supply and ground circuit malfunction is detected. communication circuit between AV control unit and display unit.	 Display unit power supply and ground circuit. Communication circuit between AV control unit and display unit.

Diagnosis Procedure

INFOID:0000000011490699

${f 1.}$ CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check display unit power supply and ground circuit. Refer to <u>AV-137, "DISPLAY UNIT: Diagnosis Procedure"</u>. <u>Is the inspection result normal?</u>

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK CONTINUITY COMMUNICATION CIRCUIT

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

Display unit		AV control unit		Continuity
Connector	Terminals	Connector	Terminals	Continuity
M93	9	M203	89	Existed
IVISO	10	IVIZUS	73	

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

Displa	ay unit		Continuity
Connector	Terminals	Ground	Continuity
M93	9		Not existed
	10		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK COMMUNICATION SIGNAL

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

U1243 DISPLAY UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

(+) Display unit		(-)	Condition	Reference value
Connector	Terminal			
M93	9	Ground	When adjusting display brightness.	(V) 6 4 2 0 → 1ms PKIB5039J

Is the inspection result normal?

YES >> GO TO 4.

>> Replace AV control unit. NO

4. CHECK COMMUNICATION SIGNAL

Check signal between display unit harness connector and ground.

(+) Display unit		(-)	Condition	Reference value
Connector	Terminal			
M93	10	Ground	When adjusting display brightness.	(V) 6 4 2 0 + 1ms PKIB5039J

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace display unit.

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U1244 GPS ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1244 GPS ANTENNA

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1244	GPS ANTENNA CONN [U1244]	GPS antenna connection malfunction is detected.	Check the connection of the GPS antenna connector.

Diagnosis Procedure

INFOID:0000000011490701

1.GPS ANTENNA CHECK

Visually check GPS antenna and antenna feeder.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

$2.\mathsf{CHECK}$ AV CONTROL UNIT VOLTAGE

- 1. Disconnect GPS antenna connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between AV control unit and ground.

(+) AV control unit Terminal	(-)	Voltage (Approx.)
137	Ground	5.0 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace AV control unit.

U1258 SATELLITE RADIO ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1258 SATELLITE RADIO ANTENNA

DTC Logic

DTC	Display contents of CONSULT	DTC Detection Condition	Possible causes
U1258	XM ANTENNA CONN [U1258]	Satellite radio antenna connection malfunction is detected.	Satellite radio antenna feeder.Satellite radio antenna.

Diagnosis Procedure

INFOID:0000000011490703

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1. SATELLITE RADIO ANTENNA CHECK

Visually check satellite radio antenna and antenna feeder.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK AV CONTROL UNIT VOLTAGE

- 1. Disconnect satellite radio antenna connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between AV control unit terminal and ground.

(+)		.,,,,
AV control unit	(–)	Voltage (Approx.)
Terminal	()	(4
139	Ground	5.0 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace AV control unit. Refer to AV-166, "Removal and Installation".

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U1263 USB

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1263 USB

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1263	USB OVERCURRENT [U1263]	Detection of overcurrent in USB connector.	Check USB harness between the AV control unit and USB connector.

Diagnosis Procedure

INFOID:0000000011490705

1. CHECK USB HARNESS

Visually check USB harness.

Is the inspection result normal?

YES >> Replace AV control unit. NO >> Replace USB harness.

U1264 ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1264 ANTENNA AMP.

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1264	ANTENNA AMP TER- MINAL [U1264]	Radio antenna amp. ON circuit is open or shorted.	Check antenna amp. ON signal circuit between the AV control unit and radio antenna amp. (coupe models) Check antenna amp. ON signal circuit between the AV control unit and antenna base. (roadster models)

Diagnosis Procedure

INFOID:0000000011490707

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1. CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND ANTENNA AMP.

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

AV cor	/ control unit Antenna amp.		Continuity	
Connector	Terminals	Connector Terminals		Continuity
M371	134	M386	1	Existed

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

AV control unit			Continuity
Connector	Terminals	Ground	Continuity
M371	134		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE AV CONTROL UNIT

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

(+) AV control unit		(–)	Voltage (Approx.)
Connector	Terminals		(11 - 7
M371	134	Ground	12.0 V

Is the inspection result normal?

YES >> Replace Antenna amp. Refer to <u>AV-178</u>, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-166, "Removal and Installation".

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U1300 AV COMM CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

U1300 AV COMM CIRCUIT

Description INFOID:0000000011490708

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

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1300 U1240	AV COMM CIRCUIT [U1300] SWITCH CONN [U1240]	When either one of the following items are detected: multifunction switch power supply and ground circuits are malfunctioning. AV communication circuits between AV control unit and multifunction switch are malfunctioning.	 Multifunction switch power supply and ground circuits. AV communication circuits between AV control unit and multifunction switch.
U1300 U124E	AV COMM CIRCUIT [U1300] AMP CONN [U124E]	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. AV communication circuits between AV control unit and BOSE amp.

U1310 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1310 AV CONTROL UNIT

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1310	CONTROL UNIT (AV) [U1310]	An initial diagnosis error is detected in AV communication circuit.	Replace AV control unit.

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U1601, U1609 FRONT DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1601, U1609 FRONT DOOR SPEAKER

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1601	FL-DOOR WOOFER [OPEN, SHORT, GND- SHORT or VB-SHOR] [U1601]	Malfunction is detected sound signal circuits between BOSE amp. and front door speaker LH.	Sound signal circuits between BOSE amp. and front door speaker LH.
U1609	FR-DOOR WOOFER [OPEN, SHORT, GND- SHORT or VB-SHOR] [U1609]	Malfunction is detected sound signal circuits between BOSE amp. and front door speaker RH.	Sound signal circuits between BOSE amp. and front door speaker RH.

Diagnosis Procedure

INFOID:0000000011490711

1.PERFORM THE SELF-DIAGNOSIS

- 1. Delete the "self-diagnosis" results of "MULTI AV". Turn ignition switch OFF.
- 2. Turn ignition switch ON. perform the self-diagnosis again.
- 3. Check that the DTC is detected again.

Is any DTC detected?

YES-1 >> U1601 Check harnesses between BOSE amp. and front door speaker LH.

YES-2 >> U1609 Check harnesses between BOSE amp. and front door speaker RH.

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

U1602, U160A FRONT DOOR SQUAWKER/TWEETER DIAGNOSIS > [BOSE AUDIO WITH NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

U1602, U160A FRONT DOOR SQUAWKER/TWEETER

DTC Logic INFOID:0000000011490712

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1602	FL-DOOR SQUAWK [OPEN, SHORT, GND- SHORT or VB-SHOR] [U1602]	When either one of the following items are detected: sound signal circuits between BOSE amp. and front door squawker LH are malfunctioning. sound signal circuits between BOSE amp. and tweeter LH are malfunctioning.	Sound signal circuits between BOSE amp. and front door squawker LH. Sound signal circuits between BOSE amp. and tweeter LH.
U160A	FR-DOOR SQUAWK [OPEN, SHORT, GND- SHORT or VB-SHOR] [U160A]	 When either one of the following items are detected: sound signal circuits between BOSE amp. and front door squawker RH are malfunctioning. sound signal circuits between BOSE amp. and tweeter RH are malfunctioning. 	Sound signal circuits between BOSE amp. and front door squawker RH. Sound signal circuits between BOSE amp. and tweeter RH.

Diagnosis Procedure

INFOID:0000000011490713

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1. PERFORM THE SELF-DIAGNOSIS

- 1. Delete the "self-diagnosis" results of "MULTI AV". Turn ignition switch OFF.
- 2. Turn ignition switch ON. perform the self-diagnosis again.
- 3. Check that the DTC is detected again.

Is any DTC detected?

- YES-1 >> U1602: Check harnesses between BOSE amp. and front door squawker LH or between BOSE amp. and tweeter LH.
- YES-2 >> U160A: Check harnesses between BOSE amp. and front door squawker RH or between BOSE amp. and tweeter RH.
- NO >> Refer to GI-39, "Intermittent Incident".

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U162A CENTER SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U162A CENTER SPEAKER

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U162A	F-INST C-SQUAWK [OPEN, SHORT, GND- SHORT, or VB-SHORT] [U162A]	Malfunction is detected sound signal circuits between BOSE amp. and center speaker.	Sound signal circuits between BOSE amp. and center speaker.

Diagnosis Procedure

INFOID:0000000011490715

1. PERFORM THE SELF-DIAGNOSIS

- 1. Delete the "self-diagnosis" results of "MULTI AV". Turn ignition switch OFF.
- 2. Turn ignition switch ON. perform the self-diagnosis again.
- 3. Check that the DTC is detected again.

Is any DTC detected?

YES >> Check harnesses between BOSE amp. and center speaker.

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

U1722, U172A REAR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1722, U172A REAR SPEAKER

DTC Logic (INFOID:0000000011490716

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor	С
U1722	RL-DOOR SPEAKER [OPEN, SHORT, GND- SHORT or VB-SHOR] [U1722]	Malfunction is detected sound signal circuits between BOSE amp. and rear speaker LH.	Sound signal circuits between BOSE amp. and rear speaker LH.	D
U172A	RR-DOOR SPEAKER [OPEN, SHORT, GND- SHORT or VB-SHOR] [U172A]	Malfunction is detected sound signal circuits between BOSE amp. and rear speaker RH.	Sound signal circuits between BOSE amp. and rear speaker RH.	Е

Diagnosis Procedure

INFOID:0000000011490717

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1. PERFORM THE SELF-DIAGNOSIS

- 1. Delete the "self-diagnosis" results of "MULTI AV". Turn ignition switch OFF.
- 2. Turn ignition switch ON. perform the self-diagnosis again.
- 3. Check that the DTC is detected again.

Is any DTC detected?

YES-1 >> U1722 Check harnesses between BOSE amp. and rear speaker LH.

YES-2 >> U172A Check harnesses between BOSE amp. and rear speaker RH.

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

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U1725 REAR WOOFER

[BOSE AUDIO WITH NAVIGATION]

U1725 REAR WOOFER

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1725	R-PSHELF C- WOOF- ER [OPEN, SHORT, GND- SHORT or VB-SHOR] [U1725]	Malfunction is detected sound signal circuits between BOSE amp. and woofer.	Sound signal circuits between BOSE amp. and woofer.

Diagnosis Procedure

INFOID:0000000011490719

1. PERFORM THE SELF-DIAGNOSIS

- 1. Delete the "self-diagnosis" results of "MULTI AV". Turn ignition switch OFF.
- 2. Turn ignition switch ON. perform the self-diagnosis again.
- 3. Check that the DTC is detected again.

Is any DTC detected?

YES >> Check harnesses between BOSE amp. and woofer.

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

U190C FRONT/REAR MICROPHONE

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U190C FRONT/REAR MICROPHONE

DTC Logic

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor	
U190C	SHORT or VB-SHOR]	Malfunction is detected sound signal circuits between BOSE amp. and front, rear or both microphone.	Sound signal circuits between BOSE amp. and front, rear or both microphone.	С
	[U190C]			D

Diagnosis Procedure

INFOID:0000000011490721

1. CHECK ON BOARD SELF-DIAGNOSIS

Perform on board self-diagnosis. Refer to AV-39, "On Board Diagnosis Function".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK CONTINUITY BETWEEN BOSE AMP. AND FRONT/REAR MICROPHONE CIRCUIT

Turn ignition switch OFF.

- 2. Disconnect BOSE amp. connector and front/rear microphone connector.
- 3. Check continuity between BOSE amp. harness connector and front/rear microphone harness connector.

BOSE amp.		Front microphone		Continuity
Connector	Terminals	Connector Terminals		Continuity
B25	72	R14	1	Existed
D20	52	K14	2	Existed

BOSE	E amp.	np. Rear microphone		Rear microphone		Continuity
Connector	Terminals	Connector Terminals		Continuity		
DOE.	63	R15	1	Existed		
B25	43	K19	2	EXISTEC		

Check continuity between BOSE amp. harness connector and ground.

BOSE amp.			Continuity	
Connector	Terminals		Continuity	
-	72 Ground			
B25	52	Ground	Not existed	
	63		NOT EXISTED	
	43			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK MICROPHONE SIGNAL

- 1. Connect BOSE amp. connector and front/rear microphone connector.
- 2. Check signal between BOSE amp. harness connector.

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U190C FRONT/REAR MICROPHONE

[BOSE AUDIO WITH NAVIGATION]

(-	+)	(-	-)		
BOSE	amp.	BOSE amp.		Condition	Reference value
Connector	Terminal	Connector	Terminal		
B25	72	- B25	52	When inputting interior sound.	(V) 1 0 -1 ** 2ms SKIB3609E
520	63	B23	43	When inputting interior sound.	(V) 1 0 -1 + 2ms SKIB3609E

Is the inspection result normal?

NO

YES

>> Replace BOSE amp. Refer to <u>AV-175, "Removal and Installation"</u>.
>> Replace front/rear microphone. Refer to <u>AV-176, "Removal and Installation"</u> (front microphone), AV-177, "Removal and Installation" (rear microphone).

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

POWER SUPPLY AND GROUND CIRCUIT AV CONTROL UNIT

AV CONTROL UNIT: Diagnosis Procedure

INFOID:0000000011490722

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1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2 CHECK POWER SUPPLY CIRCUIT

Check voltage between AV control unit harness connectors and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M206	19	OFF	Battery voltage
ACC power supply	IVIZOO	7	ACC	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

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

3. CHECK GROUND CIRCUIT

Turn ignition switch OFF.

- Disconnect AV control unit connectors.
- Check continuity between AV control unit harness connectors and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M206	20	OFF	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

DISPLAY UNIT

DISPLAY UNIT: Diagnosis Procedure

INFOID:0000000011490723

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK POWER SUPPLY CIRCUIT

Check voltage between display unit harness connector and ground.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M93	11	OFF	Battery voltage
ACC power supply	IVISS	23	ACC	Dattery Voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between Display unit and fuse.

3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M93	12	OFF	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BOSE AMP.

BOSE AMP.: Diagnosis Procedure

INFOID:0000000011490724

1. CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	8

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between BOSE amp. harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage (Approx.)
Battery power supply	B16 ^{*1} B70 ^{*2}	11	OFF	Battery voltage

^{*1:} With active noise control system

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B16 ^{*1} B70 ^{*2}	12	OFF	Existed

^{*1:} With active noise control system

^{*2:} Without active noise control system

^{*2:} Without active noise control system

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

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RGB DIGITAL IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

RGB DIGITAL IMAGE SIGNAL CIRCUIT

Description INFOID:000000011490725

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

Diagnosis Procedure

INFOID:0000000011490726

1. CHECK CONTINUITY RGB DIGITAL IMAGE SIGNAL CIRCUIT

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

Display unit		AV control unit		Continuity
Connector	Terminals	Connector Terminals		Continuity
M397	27	M396	157	Existed
	28	101390	158	Existed

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

Display unit			Continuity
Connector	Terminals	Ground	Continuity
M397	27	Ground	Not existed
	28		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK RGB DIGITAL IMAGE SIGNAL

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

(+)					
Display unit		(–)	Condition	Voltage (Approx.)	
Connector	Terminal			(47.5)	
M397	27	Ground	_	3.3 V	
28		Giodila	_	J.J V	

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

COMPOSITE IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

COMPOSITE IMAGE SIGNAL CIRCUIT

Description INFOID:000000011490727

AV control unit transmits the playback DVD image signal to the display unit.

Diagnosis Procedure

INFOID:0000000011490728

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1. CHECK CONTINUITY COMPOSITE IMAGE SIGNAL CIRCUIT

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

AV control unit		Display unit		Continuity
Connector	Terminal	Connector Terminal		Continuity
M203	68	M93	18	Existed

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

AV control unit			Continuity
Connector Terminal		Ground	Continuity
M203	68		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK COMPOSITE IMAGE SIGNAL

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

AV control unit Connector Terminal		(-)	Condition	Reference value
M203	68	Ground	At DVD image is displayed.	(V) 0. 4 0 -0. 4 → 40µs SKIB2251J

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

Revision: 2015 June AV-141 GT-R

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DISK EJECT SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

DISK EJECT SIGNAL CIRCUIT

Description INFOID:000000011490729

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

Diagnosis Procedure

INFOID:0000000011490730

1. CHECK CONTINUITY CD EJECT SIGNAL CIRCUIT

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

Multifunc	Multifunction switch		trol unit	Continuity
Connector	Terminal	Connector Terminal		Continuity
M72	14	M202	29	Existed

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

Multifunction switch			Continuity
Connector	Terminal	Ground	Continuity
M72	14		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK AV CONTROL UNIT VOLTAGE

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

(+) AV control unit		(-)	Condition	Voltage (Approx.)	
Connector	Terminal			(11 -)	
M202	29	Ground	Pressing the eject switch	0 V	
IVIZUZ	29 Ground		Except for above	5.0 V	

Is the inspection result normal?

YES >> Replace preset switch.

NO >> Replace AV control unit.

MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

MICROPHONE SIGNAL CIRCUIT

Description INFOID:0000000011490731

Supply power from AV control unit to microphone. The microphone transmits the voice signal to the AV control unit.

Diagnosis Procedure

INFOID:0000000011490732

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1. CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND MICROPHONE CIRCUIT

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

AV control unit		Microphone		Continuity
Connector	Terminals	Connector Terminals		Continuity
	71		2	
M203	72	R5	4	Existed
	87		1	

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

AV control unit			Continuity
Connector	Terminals	Ground	Continuity
M203	72	Glound	Not existed
	87		ivoi existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE MICROPHONE VCC

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

(+)		(–)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
AV control unit		AV control unit		Voltage (Approx.)
Connector	Terminal	Connector Terminal		,
M203	72	M203	71	5.0 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace AV control unit.

3. CHECK MICROPHONE SIGNAL

- 1. Connect microphone connector.
- 2. Check signal between AV control unit harness connector.

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Revision: 2015 June AV-143 GT-R

MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

(+) AV control unit		(-) AV control unit		Condition	Reference value
Connector	Terminal	Connector	Terminal		
M203	87	M203	71	Give a voice.	(V) 2. 5 2. 0 1. 5 1. 0 0. 5 0 → 2ms

Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace microphone.

CAMERA IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

CAMERA IMAGE SIGNAL CIRCUIT

Description INFOID:000000011490733

- The AV control unit supplies power to the rear view camera when receiving a reverse signal.
- The rear view camera transmits camera images to the display unit when power is supplied from the AV control unit.

Diagnosis Procedure

1. CHECK CONTINUITY CAMERA POWER SUPPLY CIRCUIT

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

AV cor	AV control unit		w camera	Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M202	22	B156	1	Existed	

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

AV control unit			Continuity
Connector	Terminal	Ground	Continuity
M202	22		Not existed

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE CAMERA POWER SUPPLY

- Connect AV control unit connector and rear view camera connector.
- Turn ignition switch ON.
- Shift the selector lever to "R".
- 4. Check voltage between AV control unit harness connector and ground.

(+) AV control unit		(-)	Condition	Voltage (Approx.)
Connector	Terminal			(* ************************************
M202	22	Ground	Shift position is "R".	6.0 V

Is inspection result normal?

YES >> GO TO 3.

NO >> Replace AV control unit. Refer to AV-166, "Removal and Installation".

3.CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT

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

Displ	ay unit	Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M93	8	B156	3	Existed

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

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INFOID:0000000011490734

CAMERA IMAGE SIGNAL CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

Displa	ay unit		Continuity
Connector	Terminal	Ground	Continuity
M93	8		Not existed

Is inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK CAMERA IMAGE SIGNAL

- 1. Connect display unit connector and rear view camera connector.
- 2. Turn ignition switch ON.
- Shift the selector lever to "R".
- 4. Check signal between display unit harness connector and ground.

	+) ay unit	(–)	Condition	Reference value
Connector	Terminal			
M93	8	Ground	At rear view camera image is displayed.	(V) 0. 4 0 -0. 4 → 40μs SKIB2251J

Is inspection result normal?

YES >> Replace display unit. Refer to AV-168, "Removal and Installation".

NO >> Replace rear view camera. Refer to AV-188, "Removal and Installation".

STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

STEERING SWITCH SIGNAL A CIRCUIT

Description INFOID:0000000011490735

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:0000000011490736

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1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

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

AV con	AV control unit		cable	Continuity
Connector	Terminal	Connector Terminal		Continuity
M206	6	M36	24	Existed

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

AV cor	ntrol unit		Continuity
Connector	Terminal	Ground	Continuity
M206	6		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3.CHECK AV CONTROL UNIT VOLTAGE

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

((+)		–)	
AV cor	trol unit	AV control unit		Voltage (Approx.)
Connector	Terminal	Connector	Terminal	(
M206	6	M206	15	5.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

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STEERING SWITCH SIGNAL A CIRCUIT

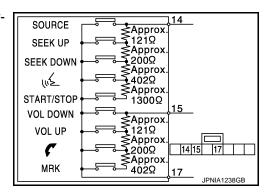
< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Inspection

INFOID:0000000011490737

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



Standard

Stee	Steering switch		Condition	Resistance Ω
Connector	Tern	ninals	Condition	Resistance 12
			START / STOP switch ON	1982 – 2063
			w≨ switch ON	708 – 737
	14	17	SEEK DOWN switch ON	314 – 327
			SEEK UP switch ON	118 – 123
M303			SOURCE switch ON	1Ω or less
	15		MRK switch ON	708 – 737
			switch ON	314 – 327
			VOL UP switch ON	118 – 123
			VOL DOWN switch ON	1Ω or less

STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

STEERING SWITCH SIGNAL B CIRCUIT

Description INFOID:0000000011490738

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:0000000011490739

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1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

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

AV con	AV control unit		cable	Continuity
Connector	Terminal	Connector Terminal		Continuity
M206	16	M36	31	Existed

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

AV cor	ntrol unit		Continuity
Connector	Terminal	Ground	Continuity
M206	16		Not existed

Is the inspection result normal?

>> GO TO 2. YES

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3.CHECK AV CONTROL UNIT VOLTAGE

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

(+)		(–)		V 16
AV cor	ntrol unit	AV control unit		Voltage (Approx.)
Connector	Terminal	Connector	Terminal	(11 -)
M206	16	M206	15	5.0 V

Is the inspection result normal?

>> GO TO 4. YES

NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

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STEERING SWITCH SIGNAL B CIRCUIT

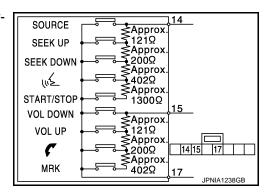
< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Inspection

INFOID:0000000011490740

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



Standard

Stee	Steering switch		Condition	Resistance Ω
Connector	Tern	ninals	Condition	Resistance 12
			START / STOP switch ON	1982 – 2063
			w≨ switch ON	708 – 737
	14		SEEK DOWN switch ON	314 – 327
			SEEK UP switch ON	118 – 123
M303		17	SOURCE switch ON	1Ω or less
		15	MRK switch ON	708 – 737
	15		switch ON	314 – 327
			VOL UP switch ON	118 – 123
		VOL DOWN switch ON	1Ω or less	

STEERING SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

STEERING SWITCH GROUND CIRCUIT

Description INFOID:0000000011490741

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:0000000011490742

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1. CHECK STEERING SWITCH SIGNAL GROUND CIRCUIT

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

AV control unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M206	15	M36	33	Existed

3. Connect AV control unit connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3.CHECK GROUND CIRCUIT

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

AV control unit			Continuity
Connector	Terminal	Ground	Continuity
M206	15		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

- 1. Turn ignition switch OFF.
- 2. Check steering switch. Refer to AV-152, "Component Inspection".

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

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Revision: 2015 June AV-151 GT-R

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STEERING SWITCH GROUND CIRCUIT

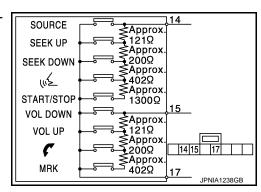
< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Inspection

INFOID:0000000011490743

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



Standard

Steering switch		- Condition	Resistance Ω	
Connector	Term	ninals	Condition	Resistance 12
			START / STOP switch ON	1982 – 2063
			w≨ switch ON	708 – 737
	14	14 17	SEEK DOWN switch ON	314 – 327
			SEEK UP switch ON	118 – 123
M303			SOURCE switch ON	1Ω or less
			MRK switch ON	708 – 737
	15	switch ON	314 – 327	
		VOL UP switch ON	118 – 123	
		VOL DOWN switch ON	1Ω or less	

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

SYMPTOM DIAGNOSIS

MULTI AV SYSTEM SYMPTOMS

Symptom Table INFOID:0000000011490744

RELATED TO NAVIGATION

Symptoms	Check items	Probable malfunction location
	All switches cannot be operated. "MULTI AV" is displayed on system selection screen when the CONSULT is started.	Multifunction switch power supply and ground circuit. AV communication circuit between AV control unit and multifunction switch. Perform CONSULT self-diagnosis. Refer to AV-34, "CONSULT Function (MULTI AV)".
Multifunction switch and preset switch operation does not work.	All switches cannot be operated. "MULTI AV" is not displayed on system selection screen when the CONSULT is initialized.	AV control unit power supply and ground circuit malfunction. Refer to AV-137, "AV CONTROL UNIT: Diagnosis Procedure".
	Only specified switch cannot be operated.	Multifunction switch or preset switch malfunction. Perform multifunction switch and preset switch self-diagnosis function. Refer to AV-22, "On Board Diagnosis Function".
Fuel economy display, vehicle setting operation is abnormal.	There is malfunction in the CONSULT self-diagnosis result.	Perform detected DTC self-diagnosis. Refer to AV-34, "CONSULT Function (MULTI AV)".
	There is no malfunction in the self-diagnosis results.	Ignition signal circuit malfunction. Refer to AV-137, "AV CONTROL UNIT : Diagnosis Procedure".
Guide sound is not heard or too low.	On the setting display select "system sound (guide sound volume, etc.)," and confirm that guide sound is ON.	AV control unit malfunction.Replace AV control unit. Refer to AV-166, "Removal and Installation".

RELATED TO HANDS-FREE PHONE

- · Before performing diagnosis, confirm that the cellular phone being used by the customer is compatible with
- 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 checking that it operates normally. It is important to determine whether the cause of the malfunction is the vehicle or the cellular phone.

Check Compatibility

- 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.

- Go to "www.nissanusa.com/bluetooth/".
- Using the website's search engine, find out if the customer's phone is on the approved list.
- 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.
- 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" list.
- If the feature related to the customer's concern shows as "Y" (compatible): Perform diagnosis as per the following table.

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[BOSE AUDIO WITH NAVIGATION]

Symptoms	Check items	Probable malfunction location
Does not recognize cellular phone connection. (no connection is displayed on the display at the guide.)	Repeat the registration of cellular phone.	AV control unit malfunction. Replace AV control unit. Refer to AV-166, "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. 	AV control unit malfunction. Replace AV control unit. Refer to AV-166, "Removal and Installation".
The other party's voice cannot be heard by hands-free phone.	Check the "microphone speaker" in Inspection & Adjustment Mode if sound is heard.	AV control unit malfunction. Replace AV control unit. Refer to AV-166, "Removal and Installation".
Originating sound is not heard by the other party with handsfree phone communication.	Sound operation function is normal.	AV control unit malfunction. Replace AV control unit. Refer to AV-166, "Removal and Installation".
	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to AV-143, "Diagnosis Procedure".
	 The retractable hard top is fully closed. The voice recognition can be controlled. Steering switch's "MRK", "VOL UP", "VOL DOWN" switch works, but " " it does not work. 	Steering switch malfunction.
The system cannot be operated.	 The retractable hard top is fully closed. The voice recognition can be controlled. Steering switch's "MRK", "VOL UP", "VOL DOWN", " " switches do not work. 	Steering switch signal B circuit malfunction. Refer to AV-149, "Diagnosis Procedure".
	All steering switches do not work.	Steering switch ground circuit malfunction. Refer to AV-151, "Diagnosis Procedure".

RELATED TO RGB IMAGE

Symptoms	Check items	Probable malfunction location
RGB image is not shown.	_	RGB digital image signal circuit malfunction. Refer to AV-140, "Diagnosis Procedure".

RELATED TO VOICE CONTROL

Symptoms	Check items	Probable malfunction location
The voice cannot be controlled even if the voice control screen is displayed.	Voice sounds at "Voice Microphone Test" of Confirmation/Adjustment mode.	AV control unit malfunction. Replace AV control unit. Refer to AV-166, "Removal and Installation".
	Voice does not sound at "Voice Micro- phone Test" of Confirmation/Adjustment mode.	Microphone circuit malfunction. Refer to AV-143, "Diagnosis Procedure".
The voice cannot be controlled (Voice control screen is not displayed).	Steering switch's "SOURCE", "SEEK UP", "SEEK DOWN", " \$\sqrt{2}", "START / STOP"switches do not work.	Steering switch signal A circuit malfunction. Refer to AV-147, "Diagnosis Procedure".
	All steering switches do not work.	Steering switch ground circuit malfunction. Refer to AV-151, "Diagnosis Procedure".

RELATED TO AUDIO

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

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Symptoms	Check items	Probable malfunction location
The disk cannot be removed.	_	Disk eject signal circuit malfunction. Refer to AV-142, "Diagnosis Procedure".
	No sound from all speakers.	BOSE amp. power supply and ground circuits malfunction. Refer to AV-137, "AV CONTROL UNIT: Diagnosis Procedure".
No sound comes out or the lev-	Sound is not heard from woofer.	 Woofer power supply and ground circuit malfunction. Sound signal (woofer) circuit malfunction. Woofer amp. ON signal circuit malfunction.
el of the sound is low.	Only a certain speaker (front right, front left, rear right, or rear left, etc.) does not output sound.	 Poor connector connection of speaker. Sound signal circuit malfunction between AV control unit and BOSE amp. Sound signal circuit malfunction between BOSE amp. and speaker. Malfunction in speaker. Malfunction in AV control unit. Malfunction in BOSE amp.
	Noise comes out from all speakers.	Malfunction in AV control unit. Malfunction in BOSE amp.
Noise is mixed with audio.	Noise comes out only from a certain speaker (front right, front left, rear right, or rear left, etc.).	 Poor connector connection of speaker. Sound signal circuit malfunction between AV control unit and BOSE amp. Sound signal circuit malfunction between BOSE amp. and speaker. Malfunction in speaker. Poor installation of speaker (e.g. backlash and looseness) Malfunction in AV control unit. Malfunction in BOSE amp.
	Noise is mixed with radio only (when the car hits a bump or while driving over bad roads).	Poor connector connection of antenna or antenna feeder.
Radio is not received or poor reception.	Other audio sounds are normal. Any radio 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. Poor connector connection of antenna or antenna feeder.
Satellite radio is not received.	There is malfunction in the CONSULT self-diagnosis result. Refer to AV-34, "CONSULT Function (MULTI AV)".	 Malfunction in antenna, antenna feeder, or AV control unit. Perform DTC diagnosis. Refer to AV-47, "DTC Index". Poor continuity in antenna feeder. Poor connector connection of antenna or antenna feeder.
	There is no malfunction in the CONSULT self-diagnosis result. Refer to AV-34, "CONSULT Function (MULTI AV)".	 Poor continuity in antenna feeder. Poor connector connection of antenna or antenna feeder. Loose satellite radio antenna mounting nut. NOTE: Tightening torque: 6.5 N·m (0.66 kg-m, 58 in-lb)

RELATED TO USB

NOTE:

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

Symptoms	Check items	Possible malfunction location / Action to take
iPod [®] or USB memory can not be recognized.		USB harness malfunction. USB connector malfunction.

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

 $\mathrm{iPod}^{\mathrm{@}}$ is a trademark of Apple inc., registered in the U.S. and other countries.

RELATED TO DVD MODE

Symptoms	Check items	Probable malfunction location
The disk cannot be removed.	_	Disk eject signal circuit malfunction. Refer to AV-142, "Diagnosis Procedure".
DVD image is not displayed.	_	Perform CONSULT self-diagnosis. Refer to AV-34, "CONSULT Function (MULTI AV)". When detecting no malfunction in those components, the following items are a possible cause. • Composite image signal circuits malfunction. Refer to AV-141, "Diagnosis Procedure".
DVD sound is not heard.	No sound from all speakers.	BOSE amp. power supply and ground circuit. Refer to AV-138, "BOSE AMP. : Diagnosis Procedure".
	Sound is heard only from specific places (RH front, RH rear, LH front and LH rear).	Audio signal circuit of suspect system.

RELATED TO CAMERA

Symptoms	Check items	Probable malfunction location
Camera image is not shown. (Vehicle width and predictive course line are displayed.)	_	 Camera image signal circuit. Camera power supply and ground circuits. Refer to <u>AV-145</u>, "<u>Diagnosis Procedure</u>".
Camera image does not switch.	Select "Camera Cont." of Confirmation/ Adjustment mode, Reverse Sensor is not turned ON at "Connection Confirmation".	Reverse signal circuit malfunction.
	Select "Camera Cont." of Confirmation/ Adjustment mode, Reverse Sensor is turned ON at "Connection Confirmation".	AV control unit malfunction. Replace AV control unit. Refer to AV-166, "Removal and Installation".

RELATED TO STEERING SWITCH

Symptoms	Probable malfunction location
None of the steering switch operations work.	Steering switch ground circuit malfunction. Refer to AV-151, "Diagnosis Procedure".
Only specified switch cannot be operated.	Steering switch malfunction.
Steering switch's "SOURCE", "SEEK UP", "SEEK DOWN", " " " " " " " " " " " " " " " " " " "	Steering switch signal A circuit malfunction. Refer to AV-147, "Diagnosis Procedure".
Steering switch's "MRK", "VOL UP", "VOL DOWN", " " switches do not work.	Steering switch signal B circuit malfunction. Refer to AV-149, "Diagnosis Procedure".

RELATED TO MULTIFUNCTION METER

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptoms	Check items		Possible malfunction location / Action to take
The multifunction meter cannot be displayed Onl	There is a malfunction in the CONSULT self-diagnosis result		Perform detected DTC self-diagnosis
	There is no malfunction in the self-diagnosis results		AV control unit power supply and ground circuit (IGN) Refer to AV-137, "AV CONTROL UNIT : Diagnosis Procedure".
	Only a particular	"COOLANT TEMP" display is malfunc- tioning	Perform self-diagnosis of CONSULT. Refer to AV-34, "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self-diagnosis result Engine coolant temperature sensor signal circuit
	played	"ENGINE OIL TEMP" display is malfunctioning	Perform self-diagnosis of CONSULT. Refer to AV-34. "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self-diagnosis result Oil pressure sensor signal circuit

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[BOSE AUDIO WITH NAVIGATION]

Symptoms	Check items		Possible malfunction location / Action to take
		"ENGINE OIL PRESSURE" dis- play is malfunction- ing	Perform self-diagnosis of CONSULT. Refer to AV- 34, "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self-diagnosis result Oil pressure sensor signal circuit
		"TRANS OIL TEMP" display is malfunctioning	Perform self-diagnosis of CONSULT. Refer to AV- 34, "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self- diagnosis result Transmission fluid temperature sensor signal circuit
		"TRANS OIL PRESSURE" dis- play is malfunction- ing	Perform self-diagnosis of CONSULT. Refer to AV- 34, "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self- diagnosis result Transmission oil pressure sensor signal circuit
The multifunction meter cannot be displayed	Only a particular item cannot be displayed	"BOOST" display is malfunctioning	Perform self-diagnosis of CONSULT. Refer to AV- 34, "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self- diagnosis result Boost sensor signal circuit
		"SPEED" display is malfunctioning	Perform self-diagnosis of CONSULT. Refer to AV- 34, "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self- diagnosis result Vehicle speed sensor signal circuit
		"FUEL / RANGE" display is malfunc- tioning	Perform self-diagnosis of CONSULT Refer to AV- 34. "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self- diagnosis result Combination meter signal circuit
		"FUEL FLOW" display is malfunctioning	Perform self-diagnosis of CONSULT. Refer to AV- 34, "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self-diagnosis result Fuel injection signal circuit
		"FUEL ECON." display is malfunctioning	Perform self-diagnosis of CONSULT. Refer to AV-34. "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self-diagnosis result ECM, combination meter signal circuit
		"TORQUE SPLIT" display is malfunc- tioning	Perform self-diagnosis of CONSULT. Refer to AV-34. "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self-diagnosis result Torque allocation signal circuit
		"ACCEL G" display is malfunctioning	Perform self-diagnosis of CONSULT. Refer to AV-34. "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self-diagnosis result Signal circuit of Yaw rate sensor, lateral G sensor, and longitudinal G sensor
		"BRAKE G" display is malfunctioning	Perform self-diagnosis of CONSULT. Refer to AV-34. "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self-diagnosis result Signal circuit of Yaw rate sensor, lateral G sensor, and longitudinal G sensor

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptoms	Check items		Possible malfunction location / Action to take	
		"ACCEL BRAKING G" display is mal- functioning	Perform self-diagnosis of CONSULT. Refer to AV-34. "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self-diagnosis result Signal circuit of Yaw rate sensor, lateral G sensor, and longitudinal G sensor	
		"CORNERING G" display is malfunc- tioning	Perform self-diagnosis of CONSULT. Refer to AV-34, "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self-diagnosis result Signal circuit of Yaw rate sensor, lateral G sensor, and longitudinal G sensor	
		"TOTAL G" display is malfunctioning	Perform self-diagnosis of CONSULT. Refer to AV-34, "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self-diagnosis result Signal circuit of Yaw rate sensor, lateral G sensor, and longitudinal G sensor	
	Only a particular item cannot be displayed	"CLOCK" display is malfunctioning	GPS antenna circuit	
		"ACCEL PEDAL" display is malfunc- tioning	 Perform self-diagnosis of CONSULT. Refer to AV- 34, "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self- diagnosis result Accelerator pedal position sensor signal circuit 	
		"BRAKE PEDAL" display is malfunc- tioning	 Perform self-diagnosis of CONSULT. Refer to AV- 34. "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self- diagnosis result Brake fluid pressure sensor signal circuit 	
		"STEERING" dis- play is malfunction- ing	Perform self-diagnosis of CONSULT. Refer to AV-34, "CONSULT Function (MULTI AV)". When there is no malfunction in the CONSULT self-diagnosis result Steering angle sensor signal circuit	
		"STOP WATCH" display is malfunctioning	AV control unit.	

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Description INFOID:000000011490745

NOTE:

For Navigation system operation information, refer to Navigation system Owner's Manual.

BASIC OPERATIONS

Symptom	Possible cause	Possible solution
	The brightness is at the lowest setting.	Adjust the brightness of the display.
	The systems in the video mode.	Press "DISC-AUX" to change the mode.
No image is displayed.	The display is turned off.	Press "☀/ 」 -" to turn on the display.
	The interior of the vehicle becomes the a little less than 80°C (176°F) or high temperature, and the protection of the display acts, and a display is turned off.	Wait until the interior of the vehicle has cooled down.
Screen not clear.	Contrast setting is not appropriate.	Adjust the contrast of the display.
No voice guidance is available. Or	The volume is not set correctly, or it is turned off.	Adjust the volume of voice guidance.
The volume is too high or too low.	Voice guidance is not provided for certain streets (roads displayed in gray).	This is not a malfunction.
No map is displayed on the screen.	A screen other than map screen is displayed.	Press "MAP".
The screen is too dim. The movement is slow.	The temperature in the interior of the vehicle is low.	Wait until the interior of the vehicle has warmed up.
Some pixels in the display are darker or brighter than others.	This condition is an inherent characteristic of liquid crystal displays.	This is not a malfunction.
Some menu items cannot be selected.	Some menu items become unavailable while the vehicle is driven.	Park the vehicle in a safe location, and then operate the navigation system.

NOTE:

Locations stored in the Address Book and other memory functions may be lost if the vehicle's battery is disconnected or becomes discharged. If this occurs, service the vehicle's battery as necessary and re-enter the information in the Address Book.

RELATED TO VOICE RECOGNITION

Related to Basic Operation

Symptom	Possible cause	Possible solution
	The interior of the vehicle is too noisy.	Close the windows or have other occupants quiet.
	The volume of your voice is too low.	Speak louder.
	The volume if your voice is too loud.	Speak softer.
	Your pronunciation is unclear.	Speak clearly.
The system does not recognize your command. or The system recognizes your command incorrectly	You are speaking before the voice recognition is ready	Press and release "v\sum_v\sum_" switch on the steering switch, and speak a command after the tone sounds.
	8 seconds or more have passed after you pressed and released "√∠" switch on the steering switch.	Make sure to speak a command within 8 seconds after you press and release "√∠" switch on the steering switch.
	Only a limited range of voice commands is usable for each screen.	Use a correct voice command appropriate for the current screen.
	The fan of the air conditioner is too loud.	Lower the fan speed as necessary as voice commands can be recognized more easily.
The system cannot be operated.	The retractable hard top is open.	Close the retractable hard top. Open and close the retractable hard top before operating the system.

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Related to Item Choice

The system should respond correctly to all voice commands without difficulty. If problems are encountered, follow the solutions given in this guide for the appropriate error.

Where the solutions are listed by number, try each solution in turn, starting with number one, until the problem is resolved.

Symptom/ error message	Solution	
Displays "COMMAND NOT RECOGNIZED" or the system fails to interpret the command correctly.	1. Ensure that the command format is valid.	
	2. Speak clearly without pausing between words and at a level appropriate to the ambient noise level.	
	3. Ensure that the ambient noise level is not excessive, for example, windows open or defrost on. NOTE: If it is too noisy to use the phone, it is likely that voice commands will not be recognized.	
	 If optional words of the command have been omitted, then command should be tried with these in place. 	
The system consistently selects	1. Ensure that the voicetag requested matches what was originally stored. This can be confirmed by giving the "Addressbook" Directory or Phone Directory command.	
the wrong voicetag	2. Replace one of the voicetags being confused with a different voicetag.	

Related to Telephone

The system should respond correctly to all voice commands without difficulty. If problems are encountered, try the following solutions.

Where the solutions are listed by number, try each solution in turn, starting with number 1, until the problem is resolved.

Symptom	Solution	
	Ensure that the command is valid.	
System fails to interpret the command correctly.	2. Ensure that the command is spoken after the tone.	
	3. Speak clearly without pausing between words and at level appropriate to the ambient noise level in the vehicle.	
	 4. Ensure that the ambient noise level is not excessive (for example, windows open or defroster on). NOTE: If it is too noisy to use the phone, it is likely that the voice commands will not be recognized. 	
	5. If more than one command was said at a time, try saying the commands separately.	
	6. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker. See "Speaker adaptation (SA) mode" earlier in this section. Refer to "OWNER'S MANUAL".	
The system consistently selects	Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the "List Names" command.	
the wrong voicetag	2. Replace one of the names being confused with a new name.	

RELATED TO AUDIO

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

NOTE:

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

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Revision: 2015 June AV-161 GT-R

[BOSE AUDIO WITH NAVIGATION]

Symptom	Cause and Counter measure	
	Check if the CD was inserted correctly.	
	Check if the CD is scratched or dirty.	
	Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.	
	If there is a temperature increase error, the player will play correctly after it returns to the normal temperature.	
	If there is a mixture of music CD files (CD-DA data) and MP3/WMA/AAC files on a CD, only the music CD files (CD-DA data) will be played.	
Cannot play	Files with extensions other than ".MP3", ".WMA", ".AAC", ".mp3", ".wma", or ".aac" cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications.	
	Check if the disc or the file is generated in an irregular format, This may occur depending on the variation or the setting of MP3/WMA/AAC writing applications or other text editing applications.	
	Check if the finalization process, such as session close and disc close, is done for the disc.	
	Check if the CD is protected by copyright.	
	Disks recorded in live file system format are not supported. (For Microsoft Windows Vista, check the settings.)	
Poor sound quality	Check if the CD is scratched or dirty.	
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the MP3/WMA/AAC CD, or if it is a multisession disc, some time may be required before the music starts playing.	
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width might not match the specifications. Try using the slowest writing speed.	
Skipping with high bit rate files	Skipping may occur with large quantities if data such as for high bit rate data.	
Move immediately to the next song when playing	When a non-MP3/WMA/AAC file has been given an extension of ".MP3", ".WMA", ".AAC" ".mp3", ".wma", or ".aac" or when play is prohibited by copyright protection, the player will skip to the next song.	
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the software, so the files might not play in the desired order.	
Poor reception only from a certain radio broadcast station.	Check incoming radio wave signal strength of applicable broadcast station.	
Buzz/rattle sound from speaker	The majority of rattle sounds are not indicative of an issue with the speaker, usually something nearby the speaker is causing the rattle.	

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

NOTE:

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

RELATED TO DVD

Symptom	Possible cause	Possible solution
Not working as operated	Some operations may be rejected or may not function as intended because of the manufacturer's intent, depending on DVD.	This is not a malfunction.
Operation not accepted	If a requested operation is prohibited, then a message is displayed on the screen. (Message display depends on DVD.)	This is not a malfunction.

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

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Symptom	Possible cause	Possible solution
	Check that the DVD is inserted in the right place.	Upturn the DVD (facing the title upward).
	Check if there is condensation inside the player.	wait until the condensation is gone (about 1 hour) before using the player.
DVD can not be played	DVD menu is displayed.	Select item to touch "ENTER"
2.2 can net 20 played	Insertion of a DVD with a different region code.	DVDs with a different region code can not be played. Check DVD.
	Some DVD softwares may not be played because not all DVD softwares fully comply in the standard.	This is not a malfunction.
Interruption during play- back or flicker in the dis- play	Check that the DVD has no scratches and dirt.	Errors may not be corrected depending on the size of scratches.
Low sound quality		Wipe and clean the dirt on the disc.
Distortion in picture	In the process of fast-forward or fast-reverse.	This is not a malfunction.
Cubtitles not about	Subtitle setting is OFF.	Set subtitle.
Subtitles not shown	Subtitle is not included in the software.	Check DVD.
Not played in set language	If a language is not included in the DVD, then the DVD is played in a recommended language.	Check DVD.
Not played with set subtitle	If a set subtitle is not included in the DVD, then the DVD is played with a recommended subtitle.	Check DVD.
Subtitle and language not selectable (not played with	The DVD is not multilanguage-capable.	The inclusion of the number of languages depends on DVD. Languages may be selectable on the Menu screen. Check DVD.
set subtitle or in set lan- guage)	The DVD has a priority language or setting.	If the DVD has a priority language or settings, then settings changed with this device are not reflected.
Angle unchangeable	Plural angles are not recorded in the software.	Check if the DVD is multi-angle-capable.
Unusual screen display	Display mode to the output aspect ratio for the DVD software is inappropriate.	Switch to the appropriate display mode.
Playback time is indicated, but no sound comes out.	Playback of Mix mode Truck 1. (Mix mode: Format including Truck 1 with data other than music and Trucks from Truck 2 with music data.)	Play music data included in trucks from Truck 2.

RELATED TO VEHICLE ICON

Symptom	Possible cause	Possible solution	
Names of roads differ between Plan View and Birdview [®] .	This is because the quantity of the displayed information is reduced so that the screen does not become too crowded. There is also a chance that names of the roads may be displayed multiple times, and the names appearing on the screen may be different because of a processing procedure.	This is not a malfunction.	M
The vehicle icon is not displayed in the correct position.	The vehicle was transported after the ignition switch was pressed off, for example, by a ferry or car transporter.	Drive the vehicle for a while on a road where GPS signals can be received.	0
	The position and direction of the vehicle icon may be incorrect depending on the driving environments and the levels of positioning accuracy of the navigation system.	This is not a malfunction. Drive the vehicle for a while to automatically correct the position and direction of the vehicle icon.	Р
When the vehicle is traveling on a new road, the vehicle icon is located on another road nearby.	Because the new road is not stored in the map data, the system automatically places the vehicle icon on the nearest road available.	Updated road information will be included in the next version of the map data.	
The screen does not switch to the night screen even after turning on the headlights.	The daytime screen was set the last time the headlights were turned on.	Set the screen to the night screen mode using <day night=""> when you turn on the headlights.</day>	

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptom	Possible cause	Possible solution
The map does not scroll even when the vehicle is moving.	The current location map screen is not displayed.	Press "MAP".
The vehicle icon is not displayed.	The current location map screen is not displayed.	Press "MAP".
The location of the vehicle icon is misaligned from the actual position.	When using tire chains or replacing the tires, speed calculations based on the speed sensor may be incorrect.	Drive the vehicle for a while [at approximately 30 km/h (19 MPH) for about 30 minutes] to automatically correct the vehicle icon position. If this does not correct the vehicle icon position, contact an INFINITI dealer.
	The map data has a mistake or is incomplete (the vehicle icon position is always misaligned in the same area).	Updated road information will be included in the next version of the map data.

RELATED TO ROUTE CALCULATION AND VISUAL GUIDANCE

Symptom	Possible cause	Possible solution
Waypoints are not included in the auto reroute calculation.	Waypoints that you have already passed are not included in the auto reroute calculation.	If you want to go to that waypoint again, you need to edit the route.
Route information is not dis-	Route calculation has not yet been performed.	Set the destination and perform route calculation.
	You are not driving on the suggested route.	Drive on the suggested route.
played.	Route guidance is set to off.	Turn on route guidance.
	Route information is not provided for certain types of roads (roads displayed in gray).	This is not a malfunction.
The auto reroute calculation (or detour calculation) suggests the same route as the one previously suggested.	Route calculations took priority conditions into consideration, but the same route was calculated.	This is not a malfunction.
A waypoint cannot be added.	Five waypoints are already set on the route, including ones that you have already passed.	A maximum of 5 waypoints can be set on the route. If you want to go to 6 or more waypoints, perform route calculations multiple times as necessary.
	Roads near the destination cannot be calculated.	Reset the destination to a main or ordinary road, and recalculate the route.
	The starting point and destination are too close.	Set a more distant destination.
The suggested route is not displayed.	The starting point and destination are too far away.	Divide your trip by selecting one or two intermediate destinations, and perform route calculations multiple times.
	There are time restricted roads (by the day of the week, by time) near the current vehicle location or destination.	Set [Use Time Restricted Roads] to off.
The part of the route that you have already passed is deleted.	A route is managed by sections between waypoints. If you passed the first waypoint, the section between the starting point and the waypoint is deleted. (It may not be deleted depending on the area.)	This is not a malfunction.
An indirect route is suggested.	If there are restrictions (such as one-way streets) on roads close to the starting point or destination, the system may suggest an indirect route.	Adjust the location of the starting of the starting point or destination.
	The system may suggest an indirect route because route calculation does not take into consideration some areas such as narrow streets (gray roads.)	Reset the destination to a main or ordinary road, and recalculate the route.

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptom	Possible cause	Possible solution
The landmark information does not correspond to the actual information.	This may be caused by insufficient or incorrect map data.	Updated information will be included in the next version of the data.
The suggested route does not exactly connect to the starting point, waypoints, or destination.	There is no data for route calculation closes to these locations.	Set the starting point, waypoints and destination on a main road, and perform route calculation.

RELATED TO VOICE GUIDANCE

Symptom	Possible cause	Possible solution
Voice guidance is not available	Voice guidance is only available at certain intersections marked with? In some case, voice guidance is not available even when the vehicle should make a turn.	This is not a malfunction.
	The vehicle has deviated from the suggested route.	Go back to the suggested route or request route calculation again
	Voice guide is set to off.	Turn on voice guidance.
	Route guidance is set to off.	Turn on voice guidance.
The guidance contact does not correspond to the actual condition.	The contact of voice guidance may vary, depending on the types of intersections at which turn are made.	Follow all traffic rules and regulations.

RELATED TO 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)" of MULTI AV SYSTEM SYMPTOM.
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.
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.

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REMOVAL AND INSTALLATION

AV CONTROL UNIT

Exploded View INFOID:0000000011490746

CAUTION:

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

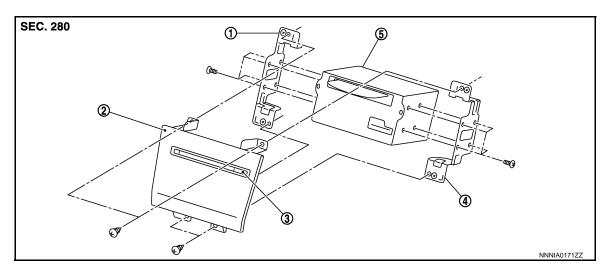
NOTE:

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.

REMOVAL

Refer to IP-12, "Exploded View".

DISASSEMBLY



 Bracket LH 4. Bracket RH

- Cluster lid C (lower)
- 5. AV control unit

3. Disk eject switch

INFOID:0000000011490747

Removal and Installation

CAUTION:

Be careful of the following items at removal and installation of A/T shift selector. Refer to TM-375, "Removal and Installation" for details.

- For electro-medical apparatus user, keep the range sensor away from the device.
- Keep the range sensor away from magnetic objects during work.
- Remove battery terminal and AV control unit after a lapse of 30 seconds or more after turning the ianition 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.

REMOVAL

When replacing AV control unit, save or print current vehicle specification with CONSULT configuration before replacement, Refer to AV-93, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description",

- Remove the cluster lid C (lower). Refer to IP-13, "Removal and Installation".
- 2. Disconnect the connector, and then remove the AV control unit together with the bracket from the vehicle.
- Remove the bracket from the AV control unit.

INSTALLATION

Install in the reverse order of removal.

AV CONTROL UNIT

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

CAUTION:

When replacing AV control unit, you must perform "Read/Write Configuration" with CONSULT. Refer to AV-93, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description".

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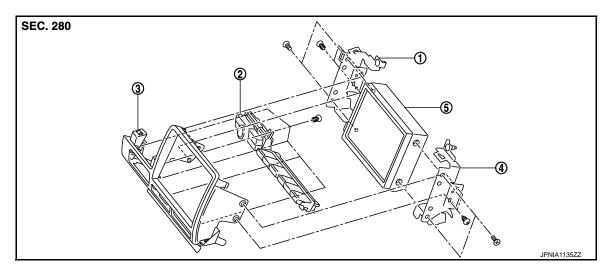
DISPLAY UNIT

Exploded View

REMOVAL

Refer to IP-12, "Exploded View".

DISASSEMBLY



Bracket (LH)
 Bracket (RH)

- 2. Multifunction switch
- 5. Display unit

3 Cluster lid C (upper)

Removal and Installation

INFOID:0000000011490749

REMOVAL

- 1. Remove the instrument panel pad A. Refer to IP-13, "Removal and Installation".
- Disconnect the connector, and then remove the display together with the bracket and the cluster lid C (upper).
- 3. Remove the display together with the bracket from the cluster lid C (upper).
- 4. Remove the bracket from the display.

INSTALLATION

Install in the reverse order of removal.

FRONT DOOR SPEAKER

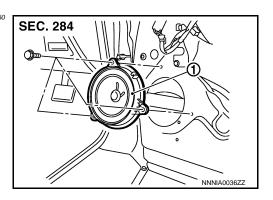
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

FRONT DOOR SPEAKER

Exploded View

INFOID:0000000011490750



Front door speaker

Removal and Installation

REMOVAL

- 1. Remove the front door finisher. Refer to INT-12, "Exploded View".
- 2. Disconnect the connector and remove the screws, and remove the front door speaker.

INSTALLATION

Install in the reverse order of removal.

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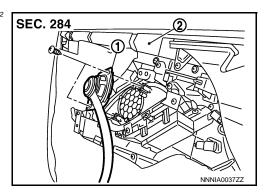
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FRONT DOOR SQUAWKER

FRONT DOOR SQUAWKER

Exploded View

INFOID:0000000011490752



- 1. Front door squawker
- 2. Front door finisher

Removal and Installation

INFOID:0000000011490753

REMOVAL

- 1. Remove the front door finisher. Refer to INT-12, "Exploded View".
- 2. Remove the screws, and then remove the front door squawker from the front door finisher.

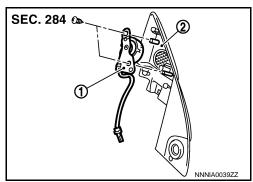
INSTALLATION

Install in the reverse order of removal.

TWEETER

Exploded View

INFOID:0000000011490754



- 1. Tweeter
- 2. Door corner cover

Removal and Installation

REMOVAL

- 1. Remove the door corner cover. Refer to MIR-19, "DOOR MIRROR ASSEMBLY: Exploded View".
- 2. Remove the screws, and remove the tweeter from the door corner cover.

INSTALLATION

Install in the reverse order of removal.

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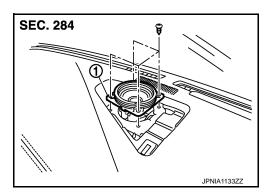
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CENTER SPEAKER

Exploded View

REMOVAL

Refer to IP-12, "Exploded View".



Center speaker

Removal and Installation

INFOID:0000000011490757

REMOVAL

- 1. Remove the center speaker grille. Refer to IP-13, "Removal and Installation".
- 2. Remove the screws and disconnect the connector, and then remove the center speaker.

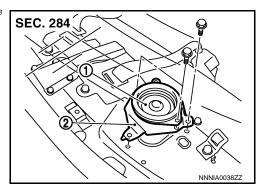
INSTALLATION

Installation is the reverse order of removal.

REAR SPEAKER

Exploded View

INFOID:0000000011490758



- 1. Rear speaker
- 2. Speaker bracket

Removal and Installation

INFOID:0000000011490759

REMOVAL

- 1. Remove the rear parcel shelf finisher. Refer to INT-19, "Exploded View".
- 2. Remove the rear speaker bracket mounting screws and disconnect the connector, and then remove the rear speaker together with the speaker bracket.
- 3. Remove the speaker from the speaker bracket.

INSTALLATION

Install in the reverse order of removal.

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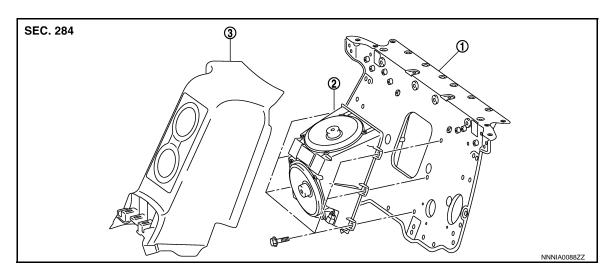
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WOOFER

Exploded View



- 1. Rear seatback support
- 2. Woofer

Rear seat center finisher

Removal and Installation

INFOID:0000000011490761

REMOVAL

- 1. Remove the rear seat center finisher. Refer to INT-19, "Exploded View".
- 2. Remove the mounting screws and disconnect the connector, and then remove the woofer.

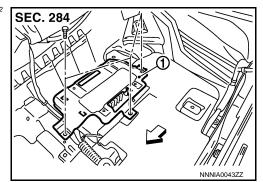
INSTALLATION

Install in the reverse order of removal.

BOSE AMP.

Exploded View

INFOID:0000000011490762



- 1. BOSE amp.
- ←: Front of vehicle

Removal and Installation

INFOID:0000000011490763

REMOVAL

- 1. Remove the driver seat. Refer to <u>SE-61, "Removal and Installation"</u>.
- 2. Turn over the floor carpet (refer to INT-22, "Exploded View"), remove the screws and disconnect the connector, and then remove the BOSE amp.

INSTALLATION

Installation is the reverse order of removal.

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FRONT MICROPHONE (ACTIVE NOISE CONTROL)

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

FRONT MICROPHONE (ACTIVE NOISE CONTROL)

Removal and Installation

INFOID:0000000011490764

REMOVAL

- Remove the headlining. Refer to <u>INT-24, "Removal and Installation"</u>.
- 2. Remove the front microphone from the headlining.

INSTALLATION

Install in the reverse order of removal.

NOTE:

Check the front microphone for looseness after the installation.

REAR MICROPHONE (ACTIVE NOISE CONTROL SYSTEM) [BOSE AUDIO WITH NAVIGATION]

< REMOVAL AND INSTALLATION >

REAR MICROPHONE (ACTIVE NOISE CONTROL SYSTEM)

Removal and Installation

REMOVAL

- Remove the headlining. Refer to INT-24, "Removal and Installation".
- 2. Remove the rear microphone from the headlining.

INSTALLATION

Install in the reverse order of removal.

NOTE:

Check the rear microphone for looseness after the installation.

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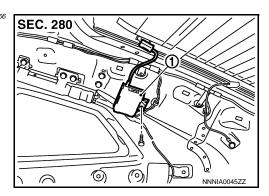
ANTENNA AMP.

[BOSE AUDIO WITH NAVIGATION]

ANTENNA AMP.

Exploded View

INFOID:0000000011490766



1. Antenna amp.

Removal and Installation

INFOID:0000000011490767

REMOVAL

- 1. Remove the rear pillar finisher (RH). Refer to INT-15, "Exploded View".
- 2. Remove the screw and disconnect the connector, and then remove the radio antenna amplifier from the vehicle.

INSTALLATION

Install in the reverse order of removal.

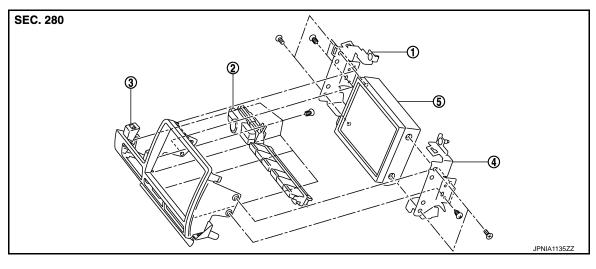
MULTIFUNCTION SWITCH

Exploded View

REMOVAL

Refer to IP-12, "Exploded View".

DISASSEMBLY



1. Bracket (LH)

Bracket (RH)

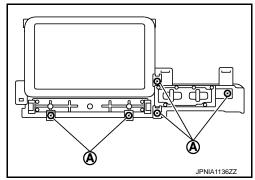
- 2. Multifunction switch
- 5. Display unit

3 Cluster lid C (upper)

Removal and Installation

REMOVAL

- 1. Remove the cluster lid C. Refer to IP-13, "Removal and Installation".
- 2. Remove the screws (A), and then remove the multifunction switch from the cluster lid C (upper).



INSTALLATION

Installation is the reverse order of removal.

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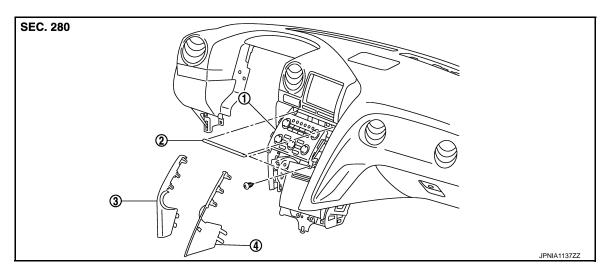
INFOID:0000000011490769

PRESET SWITCH

Exploded View

REMOVAL

Refer to IP-12, "Exploded View".



1. Preset switch

- 2. Instrument panel garnish (upper)
- 3. Instrument panel garnish LH

4. Instrument panel garnish RH

Removal and Installation

INFOID:0000000011490771

REMOVAL

- 1. Remove the instrument panel garnish (upper) and the instrument panel garnish LH/RH. Refer to <u>IP-13.</u> "Removal and Installation".
- 2. Remove the screws and disconnect the connector, and then remove the preset switch.

INSTALLATION

Install in the reverse order of removal.

[BOSE AUDIO WITH NAVIGATION]

DISK EJECT SWITCH

Exploded View

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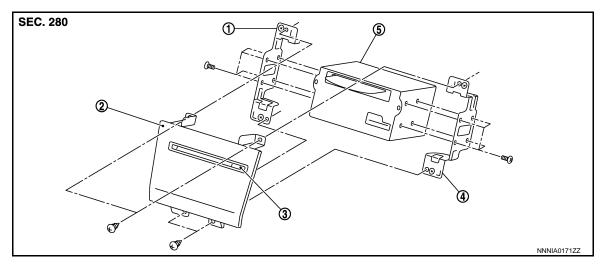
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REMOVAL

Refer to IP-12, "Exploded View".

DISASSEMBLY



Bracket LH
 Bracket RH

- 2. Cluster lid C (lower)
- 5. AV control unit

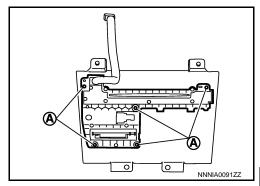
3. Disk eject switch

Removal and Installation

INFOID:0000000011490773

REMOVAL

- Remove the cluster lid C (lower). Refer to <u>IP-13, "Removal and Installation"</u>.
- 2. Remove the screws (A), and then remove the disk eject switch.



INSTALLATION

Install in the reverse order of removal.

NOTE:

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

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STEERING SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

STEERING SWITCH

Exploded View

Refer to ST-14, "Exploded View".

Removal and Installation

REMOVAL

Refer to ST-14, "Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

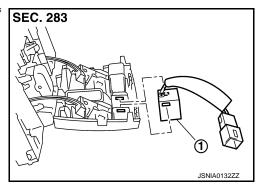
MICROPHONE

[BOSE AUDIO WITH NAVIGATION]

MICROPHONE

Exploded View

INFOID:0000000011490776



1. Microphone

Removal and Installation

INFOID:0000000011490777

REMOVAL

- 1. Remove map lamp. Refer to INL-119, "Exploded View".
- 2. Remove the microphone from the map lamp.

INSTALLATION

Install in the reverse order of removal.

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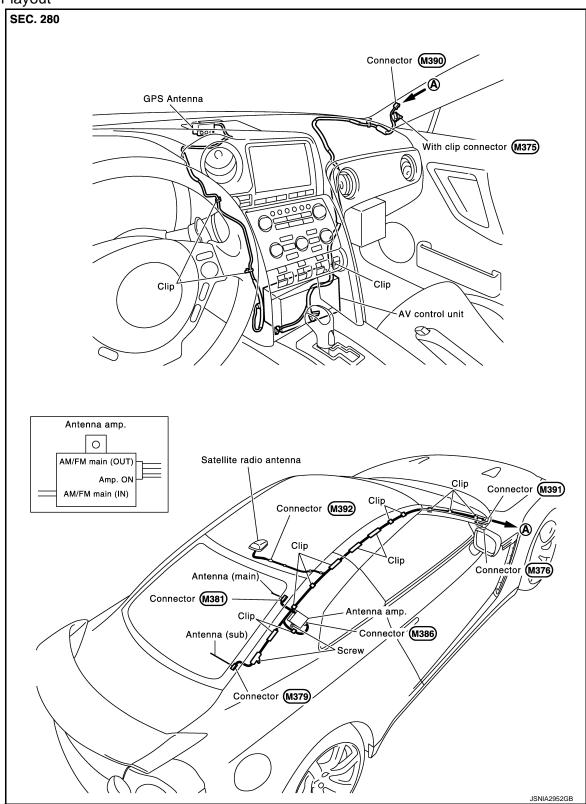
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GPS ANTENNA

Exploded View

Feeder layout



Removal and Installation

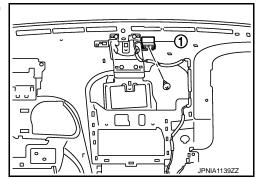
INFOID:0000000011490779

GPS ANTENNA

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

- 1. Remove the instrument panel assembly. Refer to IP-13, "Removal and Installation".
- 2. Remove the screws, and then remove GPS antenna (1) from the instrument panel assembly.



INSTALLATION

Install in the reverse order of removal.

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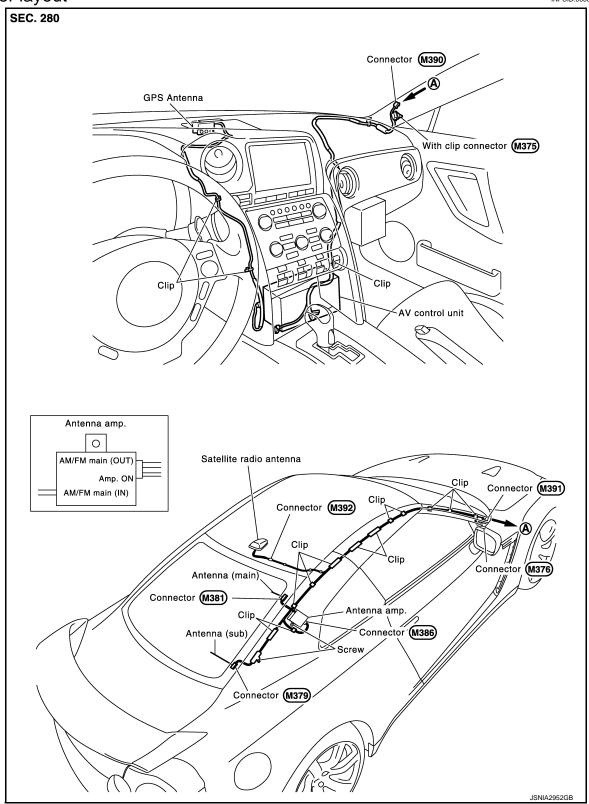
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ANTENNA FEEDER

Feeder layout



USB CONNECTOR

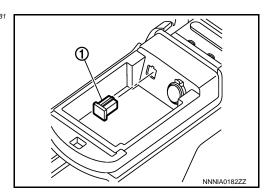
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

USB CONNECTOR

Exploded View

INFOID:0000000011490781



. USB connector

Removal and Installation

REMOVAL

- 1. Remove center console. Refer to IP-23, "Exploded View".
- 2. Push the pawl from the back of center console to remove USB connector.

INSTALLATION

Install in the reverse order of removal.

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REAR VIEW CAMERA

[BOSE AUDIO WITH NAVIGATION]

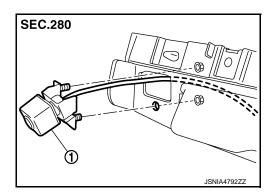
REAR VIEW CAMERA

Exploded View

REMOVAL

Refer to EXT-21, "Exploded View".

DISASSEMBLY



1. Rear view camera

Removal and Installation

INFOID:0000000011490784

REMOVAL

- Remove license lamp bracket. Refer to <u>EXT-22</u>, "Removal and Installation".
- 2. Remove the mounting nuts of rear view camera.
- 3. Remove rear view camera from license lamp bracket.

INSTALLATION

Install in the reverse order of removal.

NOTE:

Adjust the guide line position if the guide line position is shifted after installing the rear view camera. Refer to AV-188, "Adjustment".

Adjustment INFOID:000000011490785

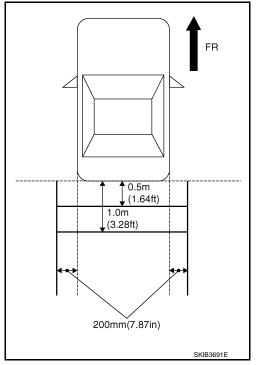
Adjust the guide line position if the guide line position is shifted after installing the rear view camera.

REAR VIEW CAMERA

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

- Draw lines on rearward area of the vehicle passing through the following points: 200 mm (7.87 in) from both sides of the vehicle, and 0.5 m (1.64 ft), 1.0 m (3.28 ft) from the rear end of the bumper.
- Set into "Adjust offset of rear view camera" mode of Confirmation / Adjustment mode.

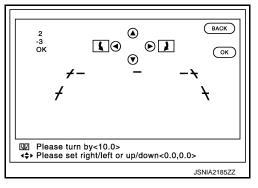


Rotate the center dial, and then select the guiding line pattern so that its angle is aligned with the correction line of the rear of the vehicle.

Selected pattern : -10° to 10°

4. Make fine adjustment to the correction line of the rear of the vehicle with up/down/left/right switches so that its position is aligned with the guiding line. Press "OK" switch and record the adjusted guiding line position to the camera control unit.

> Up/Down adjustment range $: -10^{\circ}$ to 10° Left/Right adjustment range $: -10^{\circ}$ to 10°



CAUTION:

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

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PRECAUTION

PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never 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:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with
 a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing
 serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

Precautions for Removing Battery Terminal

 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

• For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

BATTERY

INFOID:0000000011490787

INFOID:0000000011490788

After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
 NOTE:

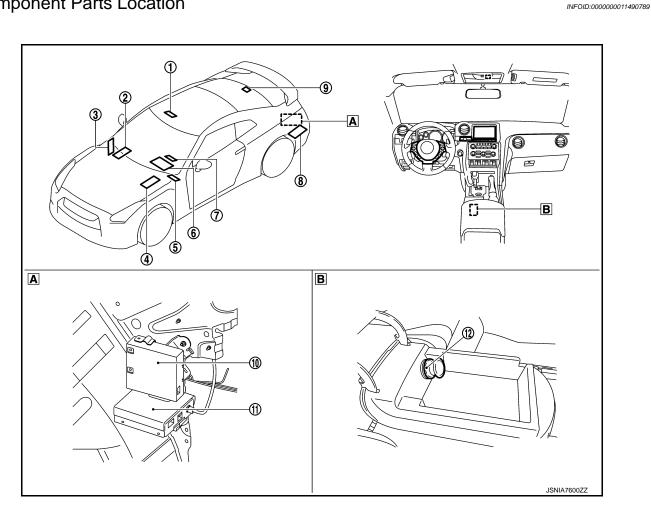
The removal of 12V battery may cause a DTC detection error.

Revision: 2015 June AV-190 GT-R

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



A Trunk side finisher inner side LH

B Console box inner

No	Part name	Function description
1	AWD control unit	Transmits the vehicle condition signal via CAN communication. For details of installation position, refer to DLN-8. "Component Parts Location (GT-R certified NISSAN dealer)".
2	ECM	Transmits the vehicle condition signal via CAN communication. For details of installation position, refer to EC-42, "Component Parts Location (GT-R certified NISSAN dealer)".
3	ВСМ	Transmits the vehicle condition signal via CAN communication. For details of installation position, refer to BCS-8, "Component Parts Location".
4	ABS actuator and electric unit (control unit)	Transmits the vehicle condition signal via CAN communication. For details of installation position, refer to BRC-15, "Component Parts Location (GT-R certified NISSAN dealer)".
5	Low tire pressure warning control unit	Transmits the vehicle condition signal via CAN communication. For details of installation position, refer to WT-10, "Component Parts Location (GT-R certified NISSAN dealer)".
6	Combination meter	Transmits the vehicle condition signal via CAN communication. For details of installation position, refer to MWI-13, "METER SYSTEM: Component Parts Location".

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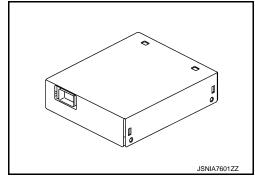
< SYSTEM DESCRIPTION >

No	Part name	Function description		
7	Steering angle sensor	Transmits the vehicle condition signal via CAN communication. For details of installation position, refer to BRC-17, "Component Description (GT-R certified NISSAN dealer)".		
8	ТСМ	Transmits the vehicle condition signal via CAN communication. For details of installation position, refer to TM-40, "Component Parts Location (GT-R certified NISSAN dealer)".		
9	GPS antenna	AV-192, "GPS Antenna"		
10	Vehicle data transmitter	AV-192, "Vehicle Data Transmitter"		
11)	Data logger control module	AV-192, "Data Logger Control Module"		
12	USB connector (data logger switch)	AV-193, "USB Connector"		

Vehicle Data Transmitter

INFOID:0000000011490790

- Equipped to the trunk inner LH side finisher inner side.
- It uses CAN communication to collect/analyze the vehicle status (driving data) according to the signals from each control unit.
- Integrates the Bluetooth[®] function, which makes it possible to connect a Bluetooth[®] communication equipped smartphone, and other portable devices.
- It transmits the vehicle status (driving data) to the data logger control module via IT communication.



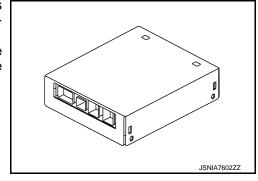
Bluetooth® module specifications

Supported communication type	Support profile	
Bluetooth [®] communication	SPP	

Data Logger Control Module

INFOID:0000000011490791

- Equipped to the trunk inner side LH finisher inner side, this writes vehicle status (driving data) received from the vehicle data transmitter via IT communication to a USB memory.
- A GPS antenna is connected, which receives GPS signal. The acquired vehicle location information is transmitted to the vehicle data transmitter.



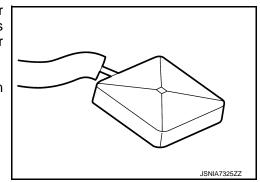
GPS Antenna

INFOID:0000000011490792

Equipped to the rear parcel shelf center, it is supplied with a power source from the data logger control module, amplifies radio waves received from GPS satellites, and transmits them to the data logger control module as the GPS signal.

NOTE:

An object placed on the rear parcel shelf may cause the reception sensitivity to be lowered.



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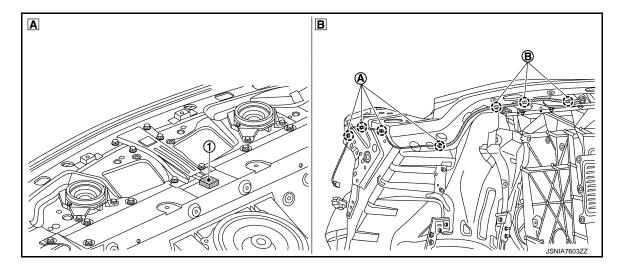
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ANTENNA HARNESS

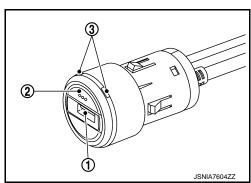


- (1) GPS antenna
- (A) Harness clip

- B Harness band
- Under the rear parcel shelf finisher
- B In trunk room

USB Connector

Installed to the center console box inner, it is equipped with a port for USB connection ①, data logger switch ②, and two LEDs ③.



PORT FOR USB CONNECTION

A USB memory can be connected.

Supported USB memory	Hi-speed communication standard	
USB memory	USB 2.0 Hi-speed standard or higher	

DATA LOGGER SWITCH

- The writing of driving data to a USB memory is started by operating the data logger switch.
- The connection status of the USB memory and the GPS signal reception status can be confirmed with the two LEDs.

LED illumination patterns

Condition	Logging (red)	GPS (green)
Writing is possible (standby status)	Blinking	_
USB cannot be recognized	Blinks 2 times and then turns OFF	_
USB memory storage space is insufficient.	Blinks 3 times and then turns OFF	_
Executing writing	ON	ON

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[NissanConnect Nismo Plus]

Condition	Logging (red)	GPS (green)
GPS positioning signal acquired	_	ON
GPS positioning signal not acquired	_	Blinking

SYSTEM

NissanConnect Nismo Plus

NissanConnect Nismo Plus: System Description

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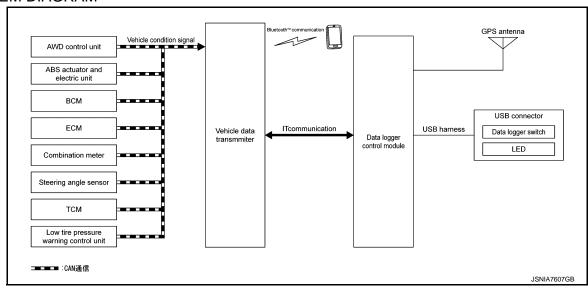
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SYSTEM DIAGRAM



SYSTEM DESCRIPTION

NissanConnect Nismo Plus consists of the vehicle data transmitter, which collects vehicle information (driving data), the data logger control module, which writes the collected vehicle status (driving data) to a USB memory, the exclusive GPS antenna, which acquires positioning information, and the USB connector to which a USB memory connects. The vehicle data transmitter receives the vehicle status from each control unit via CAN communication and analyzes the vehicle status. The analyzed vehicle status (driving data) can be displayed and checked by using the exclusive application with a smartphone or other portable device connected via Bluetooth[®] function. Furthermore, by using a USB memory the vehicle information (driving information) can be displayed by using a personal computer, or the actual drive can be recreated in a video game.

Vehicle Information (Driving Information) Collection

 The vehicle data transmitter receives vehicle condition signals via CAN communication from the following units.

Vehicle data transmitter received signal (CAN communication)

Transmit unit	Signal
AWD control unit	
Steering angle sensor	
Combination meter	
Low tire pressure warning control unit	Vehicle condition signal
ABS actuator and electric unit (control unit)	venicle condutori signal
ECM	
TCM	
ВСМ	

- The data logger control module acquires location information from the GPS antenna (GPS information). The acquired location information is transmitted to the data transmitter via IT communication.
- The vehicle data transmitter, which receives signals from each control unit, analyzes the vehicle status based on the information of each signal.

Data Logger Function

SYSTEM

[NissanConnect Nismo Plus]

The collected vehicle status (driving data) can be displayed using the exclusive application by connecting a smartphone or other portable device via the Bluetooth[®] function of the vehicle data transmitter. Alternatively, a USB memory can be connected to the USB connector for writing the collected vehicle status (driving data) to the USB memory by data logger switch operation^{*} via the data logger function.

*: A smartphone and other devices can also be used to start writing operation using the exclusive application.

HANDLING PRECAUTION

< SYSTEM DESCRIPTION >

[NissanConnect Nismo Plus]

HANDLING PRECAUTION

NissanConnect Nismo Plus

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GPS RELATED

- Vehicle position supplementation with GPS may take a certain amount of time.
- The vehicle location accuracy may deteriorate according to the reception status of GPS satellites.

USB MEMORY RELATED

- Be sure to use a USB 2.0 Hi-speed standard USB memory. (When a low-speed USB memory is used, vehicle information cannot be collected.)
- When the storage space of a USB memory is full, vehicle information cannot be collected.
- When a USB memory malfunctions, vehicle information cannot be collected.
- Be sure to use a USB memory formatted in FAT32 format. Formats other than this cannot be used for collecting vehicle information.
- The USB port for collecting vehicle information cannot be used to charge a mobile device.
- If recording continues for a long period of time (approximately 20 hours or more), the collection of vehicle information stops automatically. (When the data file size reaches 2GB, the process stops automatically.)
- When a USB hub or USB extension cable is used to connect a USB memory, the USB memory is not recognized.

BLUETOOTH® RELATED

- A maximum of up to four smartphones can be paired.
- When a fifth device is registered, the first registered smartphone is removed from the system and the four most recently paired devices remain registered.

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DIAGNOSIS SYSTEM (VEHICLE DATA TRANSMITTER)

< SYSTEM DESCRIPTION >

[NissanConnect Nismo Plus]

DIAGNOSIS SYSTEM (VEHICLE DATA TRANSMITTER)

CONSULT Function

INFOID:0000000011490796

APPLICABLE ITEM

CONSULT performs the following functions items by communication with vehicle data transmitter.

Diagnosis mode	Description		
ECU identification	The part number of the vehicle transmitter. It can be used to check various ID numbers.		
Self-diagnosis Result	Performs the diagnosis of vehicle data transmitter and displays the current and past malfunctions collectively.		
Data monitor	Can perform the diagnosis of vehicle signal that is received by vehicle data transmitter.		
Work support	Performs various vehicle data transmitter settings and reads/writes the VIN.		

ECU IDENTIFICATION

Can be used to display the part number of the vehicle data transmitter and various ID numbers.

SELF-DIAGNOSIS RESULT

- In the CONSULT self-diagnosis, the self-diagnosis results and error history are displayed collectively.
- Refer to AV-199, "DTC Index".

Freeze frame data (FFD)

The following vehicle status is recorded when DTC is detected and is displayed on CONSULT.

Display item	Display	Display content
ODO/TRIP METER Km		Displays the driving distance (odometer value) upon DTC detection.

DATA MONITOR

NOTE:

The following table also includes Information (items) not applicable to this vehicle. For information (items) applicable to this vehicle, check the CONSULT display content.

Display item	Display	Description
Bluetooth FUNCTION	ON/OFF	Displays whether the Bluetooth® function is ON/OFF.

WORK SUPPORT

Performs various vehicle data transmitter settings and reads/writes the VIN.

Item name	Description	
Bluetooth FUNCTION	Sets the Bluetooth [®] function to ON/OFF.	
GPS DATA LOGGER CONNECTION SETTING	Sets the data logger control module to ON/OFF	
CHANGE Bluetooth NAME	Allows the Bluetooth [®] name to be changed. NOTE: Because the same default name is registered when several vehicles are used, the name can be changed for distinguishing these.	
Bluetooth PAIRING ERASE	Allows the pairing information registered to the vehicle data transmitter to be deleted.	
VEHICLE DATA TRANSMITTER SETTING INITIALIZE	Allows the setting information registered to the vehicle data transmitter to be deleted.	
SAVE VIN DATA	Reads the VIN saved to the vehicle data transmitter to CONSULT.	
WRITE VIN (SAVED DATA)	Writes the VIN saved to CONSULT to the vehicle data transmitter.	
WRITE VIN (MANUAL INPUT)	Writes the VIN to the vehicle data transmitter.	

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ECU DIAGNOSIS INFORMATION

VEHICLE DATA TRANSMITTER

Reference Value

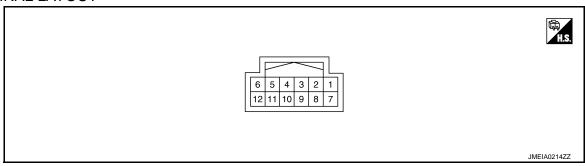
VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item	Condition		Value/Status
Bluetooth FUNCTION	Ignition switch ON	Bluetooth function: ON	ON
Didetooti i ONOTION	Igrillion switch ON	Bluetooth function: OFF	OFF

TERMINAL LAYOUT



PHYSICAL VALUES

	minal color)	Description		Condition	Standard value	Reference value
+	_	signal name	Input/ Output	Condition	Standard value	(Approx.)
1 (Y)	12 (B)	Battery power supply	Input	[Ignition switch OFF]	9.0 - 16.0 V	Battery voltage
3 (L)	_	IT communication (H)	Input/ Output	_	_	_
4 (P)	_	IT communication (L)	Input/ Output	_	_	_
5 (L)	_	CAN-H	Input/ Output	_	_	_
6 (P)	_	CAN-L	Input/ Output	_	_	-
7 (G)	12 (B)	IGN signal	Input	[Ignition switch ON]	9.0 - 16.0 V	Battery voltage
8 (SB)	12 (B)	ACC power supply	Input	[Ignition switch ACC]	9.0 - 16.0 V	Battery voltage
12 (B)	_	Ground	_	[Ignition switch OFF]	_	0 V

DTC Index

DTC	CONSULT display	Reference
U1000	CAN COMM CIRCUIT	AV-212, "DTC Logic"
U1010	CONTROL UNIT (CAN)	AV-213, "DTC Logic"

VEHICLE DATA TRANSMITTER

< ECU DIAGNOSIS INFORMATION >

[NissanConnect Nismo Plus]

DTC	CONSULT display	Reference
U1420	CONTROL UNIT (CAN)	AV-214, "DTC Logic"
U1421	CONTROL UNIT (DLG)	AV-215, "DTC Logic"
U1422	VEHICLE DATA TRANSMITTER	AV-216, "DTC Logic"
U1423	USB MEMORY	AV-217, "DTC Logic"
U1424	IT COMM	AV-218, "DTC Logic"
U1425	GPS ANTENNA	AV-219, "DTC Logic"
U1426	LOGGER SWITCH	AV-220, "DTC Logic"
U1427	VIN NOT REG	AV-221, "DTC Logic"
U1428	DATA LOGGER CONTROL MODULE	AV-222, "DTC Logic"
U1429	IT COMM	AV-223, "DTC Logic"

DATA LOGGER CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

[NissanConnect Nismo Plus]

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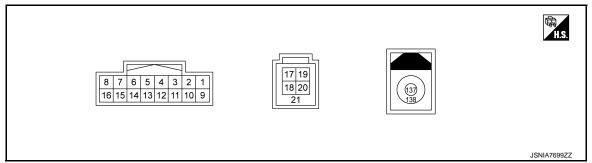
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DATA LOGGER CONTROL MODULE

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	minal color)	Description		Condition	Standard value	Reference value
+	_	signal name	Input/ Output	Condition	Standard value	(Approx.)
1 (Y)	16 (B)	Battery power supply	Input	[Ignition switch OFF]	9.0 - 16.0 V	Battery voltage
4	16	Data logger led (red)	Output	[Ignition switch ON] LED (Red): OFF	Less than 0 V	0 V
(R)	(B)	Data logger led (red)	Output	[Ignition switch ON] LED (Red): ON	4.25 - 5.25 V	5.0 V
5	16	Data logger led (green)	Output	[Ignition switch ON] LED (Green): OFF	Less than 0 V	0 V
(Y)	(B)	Data logger led (green)	Output	[Ignition switch ON] LED (Green): ON	4.25 - 5.25 V	5.0 V
7 (L)	_	IT communication (H)	Input/ Output	_	_	_
8 (P)	_	IT communication (L)	Input/ Output	_	_	_
9 (G)	16 (B)	IGN signal	Input	[Ignition switch ON]	9.0 - 16.0 V	Battery voltage
10 (SB)	16 (B)	ACC power supply	Input	[Ignition switch ACC]	9.0 - 16.0 V	Battery voltage
12	16	Data logger switch	Output	[Ignition switch ON] Data logger switch: ON	Less than 0 V	0 V
(L)	(B)	Data logger switch	Output	[Ignition switch ON] Data logger switch: OFF	4.25 - 5.25 V	5.0 V
16 (B)	_	Ground	_	[Ignition switch ON]	_	0 V
17 (W)	_	USB V BUS signal	_	_	_	_
18 (L)	_	USB D- signal	_	_	_	_
19 (G)	_	USB D+ signal	_	_	_	_
20 (R)	_	USB ground	_	_	_	_
21 (—)	_	Shield	_	_	_	_

Revision: 2015 June AV-201 GT-R

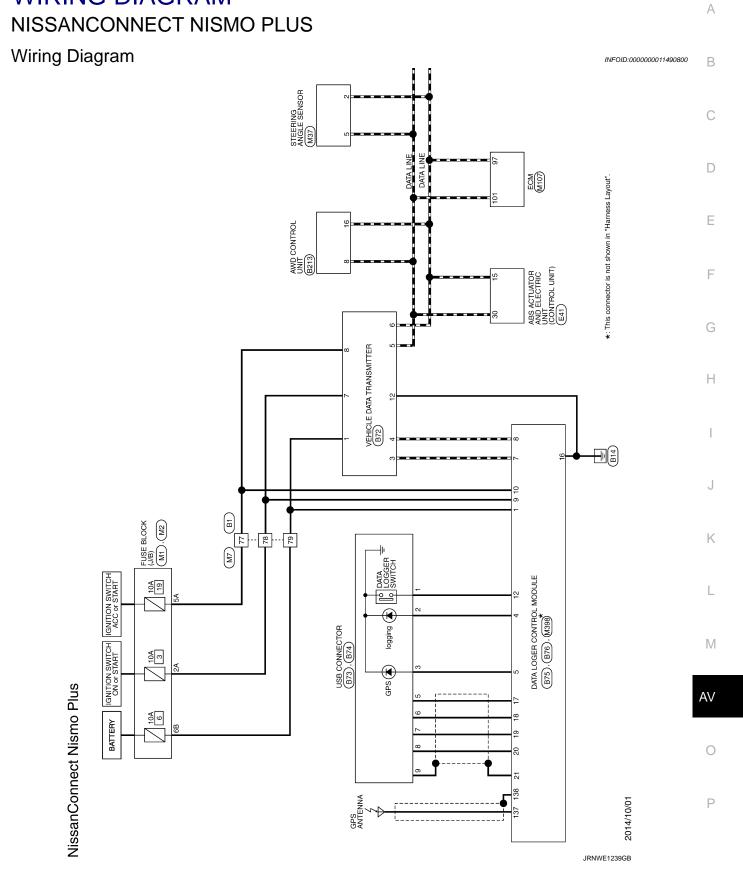
DATA LOGGER CONTROL MODULE

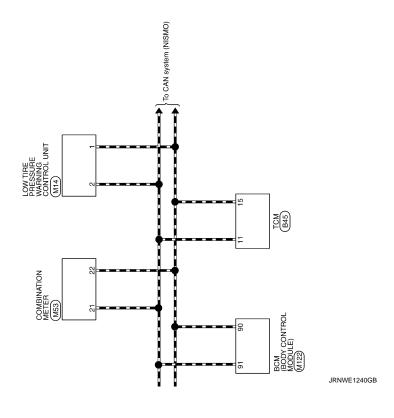
< ECU DIAGNOSIS INFORMATION >

[NissanConnect Nismo Plus]

	minal color)	Description		Condition	Standard value	Reference value
+	_	signal name	Input/ Output	Condition	Standard value	(Approx.)
137 (—)	Ground	GPS antenna signal	Input	[Ignition switch ON] Not connected GPS antenna connector	4.25 - 5.25 V	5.0 V
138 (—)	_	GPS antenna signal ground	_	_	_	_

WIRING DIAGRAM





NISSANCONNECT NISMO PLUS

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47 G SAVE MODE LAMP SIGNAL		Connector No. B72	Connector Name VEHICLE DATA TRANSMITTER		Collector type Traistve-type			6 5 4 3 1	,	1/8 8 7		Townson Color Of	No Wire Signal Name [Specification]	t	3 L IT COMMUNICATION (H)	4 P IT COMMUNICATION (L)	5 L CAN-H		g	SB ACC	12 B GROUND		020	Т	Connector Name USB CONNECTOR	Connector Type TH04MW-NH	ą.		K		13 2 1			nal Color Of	No. Wire Signal Name [Specification]		2 R	3					
	-		B45	TCM	RH40FB-RZ8-L-LH-Z			44 230 25 24 27 25 10 10 24 4	17 100 00 01	46 62 36 34 20 14 10 14 10	3/32 22 1/ 3		L	Signal Name [Specification]	POWER SUPPLY (MEMORY BACK-UP)-2	GROUND	GROUND	POWER SUPPLY (MEMORY BACK-UP)-3	GROUND	GROUND	POWER SUPPLY (MEMORY BACK-UP)-1	BACK-UP LAMP SIGNAL	CAN-H	CAN-I	STOP LAMP SWITCH SIGNAL	IGNITION SWITCH SIGNAL	STARTER RELAY SIGNAL	AUTOMANUAL RANGE CHANGE SWITCH 1 SIGNAL	RANGE SENSOR POWER SOURCE 1	PANGE SENSOR POWER SOURCE 2	ANTOMARINI DANCE CHANCE CANTOL CONTROL	ENGINE SPEED SIGNAL	RANGE SENSOR NO.1 SIGNAL	SAVE MODE SWITCH SIGNAL	RANGE SENSOR NO.3 SIGNAL	R MODE SWITCH SIGNAL	RANGE SENSOR NO.2 SIGNAL	PADDLE SHIFTER (SHIFT-UP SWITCH) SIGNAL	PADDLE SHIFTER (SHIFT-DOWN SWITCH) SIGNAL	RANGE SENSOR NO.4 SIGNAL	RANGE SENSOR NO.5 SIGNAL	R MODE LAMP SIGNAL	SHIFT LOCK SOLENOID CONTROL SIGNAL
99 R	Н		Connector No.	Connector Name	Connector Type		(Z	S.					Ferminal Color Of	No. Wire	, M	3 B	4 B	5 W	+	+	+	9 . 10	- : - :	4 π > 0	ŀ	Н	\dashv	23 BR	+	26 27	+	ļ°,	+	34 BG	┝	37 GR	38 R	39 W	45 L	43 P	44 GR	45 BG	H
	П	<u> </u>	<u> </u> ප්	<u>8</u> Т	Tg ∏g	l [Ø ∏	_ T	•	Т	Т	Т	Ľ	<u>:</u> Т	<u> </u>	<u>г</u>		П		 	 	 	 	т Т	 			_1 _1	 	 	<u>т</u>	<u> </u> 	T	1 	_	L Г	<u></u>	<u>Г</u>	<u>Г</u>	L	L_ Г	_	
																		 [Without active noise control unit] 	 [With active noise control unit] 							- [Without active noise control unit]	 [With active noise control unit] 	 [With active noise control unit] 	 [Without active noise control unit] 		- IMithaut active active protection	- (With active noise control unit)							٠				
*	SHIELD	B SB	œ	œ c	c 0	ŋ	œ	뚭 ;	> i	SHELD	<u> </u>	r (9 8	8	۵	٦	SHELD	SHIELD	>	SB.	r į	gg c	5 >	- α	: 0	BB	g	œ	>	SHELD	> 8	3 >	_	۵	SHELD	>	æ	SB	GR	88	>	>	97
49	20	52	53	54	27	28	29	9 3	61	82	2 2	94	8 8	8 29	69	70	71	72	72	22	9/	12	æ f	£ 6	28	82	85	8	8	8 8	8 8	8 8	87	88	88	90	95	93	94	92	96	26	88
NissanConnect Nismo Plus	WIRE TO WIRE	TH80FW-CS16-TM4		27 E 27 E 28 E 28 E 28 E			8 B B			Signal Name [Specification]	'												,																				
؞ٙٲؽ	e e	Connector Type								Color Of	A I	7	>	. >	M	>	œ	٠	GR	g :	> E	HH C	r	A G	GR	SB	W	g	88	7	-[88	GR	_	>	BG	g	ΓG	>	SB	۵	æ	В
Nissan(Connector No.	ģ	ģ	l 🛌	_	Ę.S.				- 17	erminal	丁	\top	┰	Т	Т	ı		,	- 1	- 1	т	- 17	- 1	- 1	Т		\neg	_	\neg	\neg	\neg	┰	Т	П	ı	ı	ı	П		П	П	Т	т

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NISSATICO	NISSAFICOLIFICE INISTITO PIUS	Connector No	Г	B76		Connector No	E41		Connector No	Γ	Mi
COLLEGERO INC.		100	Τ			COLOI NO.			201	Τ	
Connector Name	USB CONNECTOR	Connecto	Connector Name	DATA LOGER CONTROL MODULE	Conn	Connector Name	B ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	TRIC UNIT (CONTROL UNIT)	Connect	or Name	Connector Name FUSE BLOCK (J/B)
Connector Type	MOLEX_111014-9001	Connector Type	П	MOLEX_111014-9000	Conn	Connector Type	AEZ43FB-AJZ4		Connect	Connector Type	NS06FW-M2
H.S.	886	便 H.S.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Œ.	S. S.	47 46 45 44 63 42 30 52 52 52 16 15	29 08 127 100 35 64 150 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	便 H.S.		3A
Terminal Color Of No. Wire	Signal Name [Specification]	Terminal No.	Terminal Color Of No. Wire	Signal Name [Specification]	Termii No.	Terminal Color Of No. Wire		Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
M 2		17	Μ	USB V BUS SIGNAL	_	œ		UBMR	1Α	>	
P 9		18	_	USB D-SIGNAL	2	>	Ī	DIAG-K	2A	9	
9 2		19	g	USB D+SIGNAL	က	GR		VDC OFF SW	3A	7	
8 R		20	æ	USB GROUND	4	W		BLS	44	PI	
G SHIELD		21	SHIELD	SHIELD	9	9		VDC UP SW	5A	SB	
					Ξ	\dashv		CAN-H	6A	>	
					15	ъ		CAN-L	7A	ш	
Connector No.	B75	Connector No.		B213	16	\dashv		GROUND	8A	_	
Connector Name	DATA LOGER CONTROL MODILLE	Connects	Connector Name	AWD CONTROL LINIT	26	\dashv		CAN-L			
OUIII INCIDIO	מבו ע בסמבון ססו				27	+		G SENSOR GROUND		ſ	
Connector Type	TH16FW-NH	Connector Type		TH16FW-NH	59	BB		Zn	Connector No.		M2
á		ģ	_		30	\dashv		CAN-H	Connect	Connector Name	FLISE BLOCK (J/B)
图	[厚		(32	+		UBVR		- 1	(26)
¥		Ě			33	\dashv		DS FR	Connect	Connector Type	NS10FW-CS
TIPO I	8 7 5 4 1	2		12 678	8	8		DP FR	Q		
				,	32	≻ -	VDC TOP	VDC TOP POSITION LED	事		
	16 12 10 9			9 1 10 1 1 1 1 1 1 1 1 1 1 1	8	+		DP RL) II		/BI3B 14B
					3	H		DS RL			
					88	>	BRAKE FLI	BRAKE FLUID LEVEL SW			(08 98 88 78 68 58
a	Connel Name (Constitution)	Terminal	Terminal Color Of	Cianal Mamo [Canadication]	39	9		G SENSOR POWER			
No. Wire		No	Wire	orginal varie [opecification]	45	۸	0	DS RR			
٠ -	BATTERY	-	œ	SOL+	43	97		DP RR			
4 R	LOGGING (LED-RED)	2	ŋ	SOL-	44	BS t		VDC TOP POSITION LED	Terminal	Color Of	[mailton [Bloom of A] managed
> <	GPS (LED-GREEN)	9	>		45			DP FL	Ž	Wire	ognal Name [opecification]
7 L	IT COMMUNICATION SIGNAL (H)	7	*	IGN	46	 		DS FL	10B	>	
а 8	IT COMMUNICATION SIGNAL (L)	89	_	CAN-H	47	9 Z		GROUND	18	œ	
5 6	IGN SIGNAL	6	>	SOLVB					38	Ь	-
10 SB	ACC POWER SUPPLY	10	В	GROUND					4B	9	
12 L	DATA LOGGER SWITCH	11	В	GROUND					2B	BG	•
16 B	GROUND	16	Ь	CAN-L	_				eB	>	
									78	ж	

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Signification Significatio	VissanCo	NissanConnect Nismo Plus								
Properties Sign Sign	nector No.	M7	99	SHELD		Connect	١	14	Connector No.	M37
Trigony Care Full	nector Name		52	B 8		Connectu		W TIRE PRESSURE WARNING CONTROL UNIT	Connector Name	STEERING ANGLE SENSOR
1	ector Type	TH80MW-CS16-TM4	53	œ		Connecto	П	432FW-NH	Connector Type	TH08FW-NH
Signal Name (Secotication) 10 10 10 10 10 10 10 1		88.0	\$ %	eo ec		Œ			Œ	E
1 1 1 1 1 1 1 1 1 1	v.	20 00 00 00 00 00 00 00 00 00 00 00 00 0	57	o c	,	¥ S	<u>L</u>		S	1
Signal Name Specification 10 1 1 1 1 1 1 1 1	1	20 2	R G	5 0				9		1 2 4
Signal Name (Specification) 61 7 7 7 7 7 7 7 7 7			8 9	c 8				23		ιc
Signal Name (Spoorlication) No. 1946 N		田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田	9	>			J			,
Control of the cont			62	SHIELD						
No.	inal Color O	Signal Name IS	83	GR		Terminal	Color Of	Signal Name [Specification]	Terminal Color O	Signal Name [Specification]
L		ogna ramo [opomoanon]	94	œ		No.	Wire	ogramma (opcompany)		
C	-		93	g		-	۵	CAN-L	- В	GROUND
No.	+		99	품 2		2 0	ے د	CAN-H	\dagger	CAN-L
Math	+		٥	2 0		,, ·	g -	HH TUNEH (SIG.)	$^{+}$	NSI
National active noise control until National active noise control	+		8 8	-		4 4	ا د	RL LUNER (SIG)	6	CARTH
National active noise control until 72 SHELD Withhout active noise control until 72 SHELD Withhout active noise control until 73 SHELD Withhout active noise control until 74 SHELD SHELD Withhout active noise control until 74 SHELD SHE	: c		2 2	SHEID		o «	: 4	El TINER (SIG)		
Mathematical books Mathema	+		72	SHELD		- L	88	BB TUNER (PWR)	Connector No.	M53
SSE Compactor Name	Μ		72	>		80	GR	RL TUNER (PWR)		
Control of the cont	SB		73	P		6	œ	FR TUNER (PWR)	Connector Name	COMBINALION METER
W W SWSIG R R SWSIG R C INTERNET INTER	5		9/	œ	•	10	97	FL TUNER (PWR)	Connector Type	SAB40FW
15 C PR TANKER (RSSI) 15 C PR TANKER (RSSI) 14 C PR TANKER (RSSI) C PR TANKER	W		77	SB	-	12	M	SW SIG		
19	BB		78	В		15	В	IGN	B	
Signature Sign	ж		79	\	-	19	ж	RR TUNER (RSSI)	Ę	
SB S S S S S S S S S	+		80	œ		50	BG	RL TUNER (RSSI)	2	11 2 3 4 5 6 7 8 9 12131415 16 181920
GR	\dashv		8	g		21	۵	FR TUNER (RSSI)		31 32 33 34 35
L	GR		85	H	 [Without active noise control unit] 	22	ŋ	FL TUNER (RSSI)		
Color Colo	-		8	g	- [With active noise control unit]	23	GR	RR TUNER (GND)		
Second Control Of the Control Of t	œ		8	œ	 [With active noise control unit] 	54	>	RL TUNER (GND)		
EH	+		88	> i	1	52	_ 8	FR TUNER (GND)		of Signal Name [Specification]
LG	+		\$	NHEL.		8	ř,	FL LUNER (GIND)	+	
Light Ligh	+		8	>		30	σ	FLASHER SIG	+	BATTERY POWER SUPPLY
W W WMh actine to to be control until S W 4 B B W C B B W C B	+		8	2	 [Without active noise control unit] 	32	m	GROUND	+	IGNITION POWER SUPPLY
GR W SMED C W C <td>+</td> <td></td> <td>98</td> <td>≥</td> <td> [With active noise control unit] </td> <td></td> <td></td> <td></td> <td>1</td> <td>GROUND</td>	+		98	≥	 [With active noise control unit] 				1	GROUND
CR CR CR CR CR CR CR CR	\dashv		87	-					\dashv	ILLUMINATION GROUND
L S S S S S S S S S			88	۵						GROUND
99 V · · · · · · · · · · · · · · · · · ·	٦	-	88	SHIELD						METER CONTROL SWITCH GROUND
BG 92 LG R S<	>		90	>	•				7	AIC AUTO AMP. CONNECTION RECOGNITION SIGNAL
93 Y	BG		95	PT						AMBIENT SENSOR GROUND
BG Section	Н		93	Υ						AMBIENT SENSOR SIGNAL
N	Н		94	В					12 L	VEHICLE SPEED SIGNAL (2-PULSE)
96 Y : 14 B 15 B 15 B 16 B 17 B 17 B 18	В		95	æ						VEHICLE SPEED SIGNAL (8-PULSE)
W G R B G B C <t< td=""><td>H</td><td></td><td>96</td><td>Υ</td><td></td><td></td><td></td><td></td><td>H</td><td>OIL PRESSURE SENSOR GROUND</td></t<>	H		96	Υ					H	OIL PRESSURE SENSOR GROUND
G	Н		97	ш	-					AIR BAG SIGNAL
100 kg	G		88	g					4	LED HEAD LAMP (RH) WARNING SIGNAL
100 W 100 H	œ		66	\dashv					\dashv	FUEL LEVEL SENSOR GROUND
	W		100	Н	•				19 R	OIL LEVEL SENSOR GROUND

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NISS	ancol	VissanConnect Mismo Plus				ŀ	
20	≥ .	OIL LEVEL SENSOR SIGNAL	114	>	DATA LINK CONNECTOR	100 M	PASSENGER DOOR REQUEST SW
5	، ا	CAN-H	117	œ 3	ASCD BRAKE SWITCH	+	DRIVER DOOR REQUEST SW
23 62	2 ح	CAIN-L	130	≥ 0	POWER SUPPLY FOR ECM (BACK-UP)	102 BG	KEYLESS ENTRY DECENTED DOWNED SLIDBLY
24 24	2 8	ILLIMINATION CONTROL SWITCH SIGNAL (+)	121	á	POWER SLIPPLY FOR FOM	$^{+}$	S/I LINIT POWER SUPPLY
25	U	TRIP A/B RESET SWITCH SIGNAL	122	>	POWER SUPPLY FOR ECM	107 LG	COMBI SW INPUT 1
56	BG	ENTER SWITCH SIGNAL	124	8	ECM GROUND	┞	COMBI SW INPUT 4
27	SB	SELECT SWITCH SIGNAL	126	7	FUEL PUMP RELAY	109 Y	COMBI SW INPUT 2
28	BB	ALTERNATOR	127	g	THROTTLE CONTROL MOTOR RELAY	110 G	HAZARD SW
29	9	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)	128	В	ECM GROUND	111 Y	S/L UNIT COMM
30	ยา	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)					
31	۸	PARKING BRAKE SWITCH SIGNAL					
32	>	BRAKE FLUID LEVEL SWITCH SIGNAL	Connector No.	r No.	M122	Connector No.	M398
33	٦	WASHER LEVEL SWITCH SIGNAL	Connector Name	Nama	BCM (BODY CONTBO! MODI!! E)	Connector Name	DATA LOGER CONTROL MODILIE
34	GR	OIL PRESSURE SENSOR POWER		2	Com (SOCI COM INC. MODOLE)	10001100	\neg
35	8	OIL PRESSURE SENSOR SIGNAL	Connector Type	r Type	TH40FB-NH	Connector Type	GT5-1P-DS
38	BG	FUEL LEVEL SENSOR SIGNAL	ą			ą	
33	>-	LED HEAD LAMP (LH) WARNING SIGNAL	厚			B	
40	>	ILLUMINATION CONTROL	S II			<u> </u>	
			E.S.		91 90 89 88 67 7 8 83 82 81 80 73 78 77 78 75 74 73 72		((
Connector No	N No	Mioz			TT TT TEN TEN TOT TOT TOT TOT SEC SE		= (3) =
00	ı	(2)					(E)
Connecto	Connector Name	ECM					
Connector Type	or Type	RH24FGY-RZ8-R-LH-Z	Terminal	Color Of	3	Terminal Color Of	Ĺ
			ė.		Signal Name [Specification]		Signal Name [Specification]
個			72	œ	ROOM ANT2-	137	GPS ANTENNA SIGNAL
Ę		128 124 123 108 108 109 100	73	9	ROOM ANT2+	138	GPS ANTENNA SIGNAL GROUND
Ċ		127 111 107 108 99	74	SB	PASSENGER DOOR ANT-		
		126 122 118 114 116 108 102	75	BB	PASSENGER DOOR ANT+		
		121 117 113 108 108 108 97	9/	۸	DRIVER DOOR ANT-		
			77	P.	DRIVER DOOR ANT+		
			78	>	ROOM ANT1-		
Terminal	O	Signal Name [Specification]	79	BR	ROOM ANT1+		
No.	Wire	licemondol ourse susso	80	GR	IMMOBI ANTENNA CONTROL		
97	۵	CAN COMMUNICATION LINE	8	_	IMMOBI ANTENNA SIGNAL		
66	SB	SENSOR POWER SUPPLY	85	œ	IGN RELAY (F/B) CONT		
100	BR	SENSOR POWER SUPPLY	83	>	KEYLESS ENTRY RECEIVER COMM		
101	٦	CAN COMMUNICATION LINE	87	BB	COMBI SW INPUT 5		
102	g	ASCD STEERING SWITCH	88	>	COMBI SW INPUT 3		
103	GR	SENSOR GROUND	88	BB	WS HSN4		
104	Ь	ACCELERATOR PEDAL POSITION SENSOR 1	06	۵	CAN-L		
105	>	ECM RELAY (SELF SHUT-OFF)	16	_	CAN-H		
106	PT	IGNITION SWITCH	92	FG	KEY SLOT ILL OUTPUT		
107	BG	SENSOR GROUND	93	^	GNI NO		
108	٦	ACCELERATOR PEDAL POSITION SENSOR 2	92	BG	ACC RELAY CONT		
109	٦	SAVALVERLY	96	SB	A/T SHIFT SELECTOR POWER SUPPLY		
110	Ъ	STOP LAMP SWITCH	97	٦	S/L CONDITION 1		
111	В	PNP SIGNAL	88	œ	S/L CONDITION 2		
113	SB	ENGINE SPEED OUTPUT SIGNAL	66	G	SHIFT P		

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[NissanConnect Nismo Plus]

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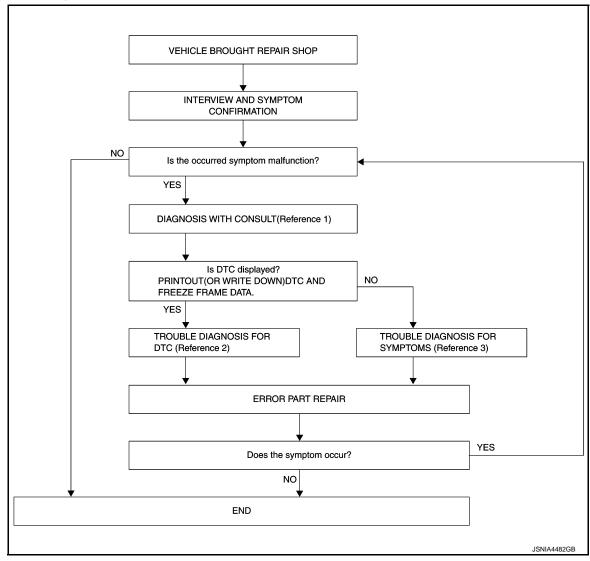
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



- Reference 1... Refer to <u>AV-198</u>, "CONSULT Function".
- Reference 2··· Refer to <u>AV-199</u>, "<u>DTC Index</u>".
- Reference 3··· Refer to AV-227, "Description".

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

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[NissanConnect Nismo Plus]

- Connect CONSULT and perform a self-diagnosis for "TELEMATICS". Refer to <u>AV-198, "CONSULT Function"</u>.
- 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-199, "DTC Index".

>> GO TO 5.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to AV-227, "Description".

>> GO TO 5.

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

ADDITIONAL SERVICE WHEN REPLACING VEHICLE DATA TRANSMITTER

< BASIC INSPECTION >

[NissanConnect Nismo Plus]

ADDITIONAL SERVICE WHEN REPLACING VEHICLE DATA TRANSMIT-Α **TER** Description В When a vehicle data transmitter is replaced, the VIN number writing to a vehicle data transmitter is performed. Refer to AV-211, "Work Procedure". Work Procedure INFOID:0000000011490803 1. READING OF VIN DATA (P)CONSULT work support Select "SAVE VIN DATA", "START SAVE VIN DATA" then "YES" on START SAVE VIN DATA screen to save the VIN data stored in replaced vehicle data transmitter in CONSULT. If it cannot be saved, writing operation Е must be performed manually. >> GO TO 2. F 2.REPLACE VEHICLE DATA TRANSMITTER Replace vehicle data transmitter. Refer to AV-229, "Removal and Installation". Can ID data be saved to CONSULT at 1st step? YES >> GO TO 3. NO >> GO TO 4. Н 3.automatic writing of vin data to vehicle data transmitter (P)CONSULT work support 1. Select "WRITE VIN (SAVED DATA)", "WRITE SAVED VIN DATA" then "YES" at WRITE SAVED VIN DATA screen to write the VIN data saved in CONSULT into new vehicle data transmitter. Turn ignition switch OFF and wait for 30 seconds or more. **CAUTION:** After turn ignition switch OFF, never move a vehicle. 3. Turn ignition switch ON. K >> END. f 4.MANUAL WRITING OF VIN DATA TO VEHICLE DATA TRANSMITTER CONSULT work support 1. Select "WRITE VIN (MANUAL INPUT)", "WRITE VIN DATA" then "START" on changing screen to write

the VIN data saved into new vehicle data transmitter.

2. Turn ignition switch OFF and wait for 30 seconds or more.

CAUTION:

After turn ignition switch OFF, never move a vehicle.

3. Turn ignition switch ON.

>> END

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AV-211 Revision: 2015 June GT-R

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[NissanConnect Nismo Plus]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000011490804

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

Refer to LAN-24, "CAN Communication Signal Chart" for details of the communication signal.

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display	Detecting condition	Possible cause
U1000	CAN COMM CIR- CUIT	When the vehicle data transmitter cannot communicate for 2 seconds or more.	CAN communication system

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 1 second or more.
- 3. Turn ignition switch ON and wait at least 5 seconds or more.
- Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 5. Check DTC.

Is DTC "U1000" detected?

YES >> Proceed to AV-212, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011490806

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC.
- Perform DTC confirmation procedure again. Refer to <u>AV-212, "DTC Logic"</u>.

Is DTC "U1000" detected again?

YES >> Perform the trouble diagnosis for CAN communication system. Refer to <u>LAN-15</u>, "Trouble <u>Diagnosis Flow Chart"</u>.

NO >> INSPECTION END

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

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U1010 CONTROL UNIT (CAN)

Description INFOID:000000011490807

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

Refer to LAN-24, "CAN Communication Signal Chart" for details of the communication signal.

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display	Detecting condition	Possible cause
U1010	CONTROL UNIT (CAN)	CAN initial diagnosis internal malfunction is detected.	Vehicle data transmitter

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

- Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 1 second or more.
- 3. Turn ignition switch ON and wait at least 5 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- Check DTC.

Is DTC "U1010" detected?

YES >> Proceed to AV-213, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(II) With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC.
- Perform DTC confirmation procedure again. Refer to <u>AV-213, "DTC Logic"</u>.

Is DTC "U1010" detected again?

YES >> Replace vehicle date transmitter. Refer to AV-229, "Removal and Installation".

NO >> INSPECTION END

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INFOID:0000000011490809

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U1420 VEHICLE DATA TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

U1420 VEHICLE DATA TRANSMITTER

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display	Detecting condition	Possible cause
U1420	CONTROL UNIT (CAN)	Vehicle data transmitter internal malfunction.	Vehicle data transmitter

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 1 second or more.
- 3. Turn ignition switch ON and wait at least 5 seconds or more.
- Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 5. Check DTC.

Is DTC "U1420" detected?

YES >> Proceed to AV-214, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011490811

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(II) With CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- 3. Perform DTC confirmation procedure again. Refer to AV-214, "DTC Logic".

Is DTC "U1420" detected again?

YES >> Replace vehicle date transmitter. Refer to AV-229, "Removal and Installation".

NO >> INSPECTION END

U1421 DATA LOGGER CONTROL MODULE

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

U1421 DATA LOGGER CONTROL MODULE

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display	Detecting condition	Possible cause
U1421	CONTROL UNIT (DLG)	Data logger control module internal malfunction.	Data logger control module

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 1 second or more.
- 3. Turn ignition switch ON and wait at least 5 seconds or more.
- Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 5. Check DTC.

Is DTC "U1421" detected?

YES >> Proceed to AV-215, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

®With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC.
- 3. Perform DTC confirmation procedure again. Refer to AV-215, "DTC Logic".

Is DTC "U1421" detected again?

YES >> Replace date logger control module. Refer to AV-230, "Removal and Installation".

NO >> INSPECTION END

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Revision: 2015 June AV-215 GT-R

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INFOID:0000000011490813

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U1422 VEHICLE DATA TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

U1422 VEHICLE DATA TRANSMITTER

DTC Logic INFOID:000000011490814

DTC DETECTION LOGIC

DTC	CONSULT display	Detecting condition	Possible cause
U1422	VEHICLE DATA TRANSMITTER	The power supply of the vehicle data transmitter detected below 9.0 V.	Vehicle data transmitter power supply circuit Vehicle data transmitter Battery

NOTE:

DTC may be detected when it becomes below 9.0 V momentarily by degradation of a battery during engine start.

DTC CONFIRMATION PROCEDURE

1.COMPONENT FUNCTION CHECK (1)

Check the battery. Refer to PG-3, "How to Handle Battery".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace battery. Refer to PG-91, "Removal and Installation".

2.COMPONENT FUNCTION CHECK (2)

Check the voltage between vehicle data transmitter harness connector and ground.

Ve	ehicle data transmit	Standard value	Voltage	
	Terminals			
Connector	(+)	(–)	Staridard value	(Approx.)
	Terminal			
B72	1	12	9.0 - 16.0 V	Battery voltage

Is the inspection result normal?

YES >> INSPECTION END

NO >> Proceed to AV-216, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011490815

${f 1.}$ CHECK VEHICLE DATA TRANSMITTER POWER SUPPLY AND GROUND CIRCUIT

Check the vehicle data transmitter power supply and ground circuit. Refer to AV-224, "VEHICLE DATA TRANSMITTER: Diagnosis Procedure".

Is the inspection result normal?

YES >> Replace vehicle data transmitter. Refer to AV-229, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

U1423 USB MEMORY

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

U1423 USB MEMORY

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display	Detecting condition	Possible cause
U1423	USB MEMORY	Data cannot be written in a USB memory.	USB memory

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. USB memory is connected to a USB connector and data is written in.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC "U1423" detected?

YES >> Proceed to AV-217, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK USB MEMORY

Connect the USB memory which detected abnormality in CONSULT and write data.

Is the writing of data complete normally?

YES >> Perform intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> Replace USB memory.

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INFOID:0000000011490817

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U1424 IT COMMUNICATION

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

U1424 IT COMMUNICATION

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display	Detecting condition	Possible cause
U1424	IT COMM	The vehicle data transmitter detected malfunction of IT communication signal from data logger control module.	IT communication system Data logger control module

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(I) With CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 1 second or more.
- 3. Turn ignition switch ON and wait at least 5 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 5. Check DTC.

Is DTC "U1424" detected?

YES >> Proceed to AV-218, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011490819

1. CHECK IT COMMUNICATION CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect vehicle data transmitter harness connector and data logger control module.
- Check the continuity between vehicle data transmitter harness connector and data logger control module harness connector.

Vehicle data transmitter		Data logger control module		Continuity
Connector Terminal		Connector	Terminal	Continuity
B72	3	B75	7	Existed
D12	4	D/3	8	LXISIGU

Is the inspection result normal?

YES >> Replace data logger control module. Refer to AV-230, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

U1425 GPS ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

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INFOID:0000000011490821

U1425 GPS ANTENNA

DTC Logic INFOID:0000000011490820

DTC DETECTION LOGIC

DTC	CONSULT display	Detecting condition	Possible cause
U1425	GPS ANTENNA	Malfunction on the GPS receiver circuit in data logger control module is detected.	Data logger control module GPS antenna

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 1 second or more.
- Turn ignition switch ON and wait at least 5 seconds or more.
- Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- Check DTC.

Is DTC "U1425" detected?

YES >> Proceed to AV-219, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK GPS ANTENNA HARNESS CONNECTOR

Check GPS antenna harness connector connection.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK GPS ANTENNA HARNESS

Visually check GPS antenna.

Is the inspection result normal?

YFS >> GO TO 3.

NO >> Replace GPS antenna. Refer to AV-231, "Removal and Installation".

3.check voltage data logger control module

- Turn ignition switch OFF.
- 2. Disconnect GPS antenna harness connector.
- 3. Turn ignition switch ON.
- Check the voltage between data logger control module and ground.

Tern	ninals			
(+)			Voltage (Approx.)	
Data logger control module	(–)	Standard value		
Terminal				
137	Ground	4.25 - 5.25 V	5.0 V	

Is the inspection result normal?

YES >> Replace GPS antenna. Refer to AV-231, "Removal and Installation"

NO >> Replace data logger control module. Refer to AV-230, "Removal and Installation".

AV-219 Revision: 2015 June GT-R

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U1426 DATA LOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

U1426 DATA LOGGER SWITCH

DTC Logic INFOID:000000011490822

DTC DETECTION LOGIC

DTC	CONSULT display	Detecting condition	Possible cause
U1426	LOGGER SWITCH	Data logger control module detects the data logger switch is stuck ON for 5 minutes or more.	USB connector (Date logger switch) Data logger control module

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(I) With CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 1 second or more.
- 3. Turn ignition switch ON and wait at least 5 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 5. Check DTC.

Is DTC "U1426" detected?

YES >> Proceed to AV-220, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011490823

1. CHECK DATA LOGGER SWITCH

Check the data logger switch. Refer to AV-220, "Component Inspection".

Is the inspection result normal?

YES >> Replace data logger control module. Refer to AV-230, "Removal and Installation".

NO >> Replace USB connector. Refer to AV-232, "Removal and Installation".

Component Inspection

INFOID:0000000011490824

1. CHECK DATA LOGGER SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect USB connector harness connector.
- 3. Check the continuity between USB connector terminal and ground.

CAUTION:

Check the USB connector in a vehicle installation condition.

USB connector	Ground	Condition		Continuity
Terminal		Data logger	Press	Existed
1		switch	Except for above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace USB connector. Refer to AV-232, "Removal and Installation".

U1427 VIN NOT REG

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

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INFOID:0000000011490826

U1427 VIN NOT REG

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display	Detecting condition	Possible cause
U1427	VIN NOT REG	No write of VIN number is detected.	VIN not reg

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 1 second or more.
- 3. Turn ignition switch ON and wait at least 5 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- Check DTC.

Is DTC "U1427" detected?

YES >> Proceed to AV-221, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1.PERFORM WRITING VIN DATA TO VEHICLE DATA TRANSMITTER

(P)With CONSULT

Perform writing VIN data to vehicle data transmitter. Refer to AV-211, "Work Procedure".

>> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- 3. Perform DTC confirmation procedure again. Refer to AV-221, "DTC Logic".

Is DTC "U1427" detected again?

YES >> Replace vehicle data transmitter. Refer to AV-229, "Removal and Installation".

NO >> INSPECTION END

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U1428 DATA LOGGER CONTROL MODULE

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

U1428 DATA LOGGER CONTROL MODULE

DTC Logic INFOID:000000011490827

DTC DETECTION LOGIC

DTC	CONSULT display	Detecting condition	Possible cause
U1428	DATA LOGGER CON- TROL MODULE	The power supply of the data logger control module detected below 9.0 V.	Data logger control module power supply circuit Data logger control module Battery

NOTE:

DTC may be detected when it becomes below 9.0 V momentarily by degradation of a battery during engine start.

DTC CONFIRMATION PROCEDURE

1.COMPONENT FUNCTION CHECK (1)

Check battery. Refer to PG-3, "How to Handle Battery".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace battery. Refer to PG-91, "Removal and Installation".

2.COMPONENT FUNCTION CHECK (2)

Check the voltage between data logger control module harness connector and ground.

Dat	a logger control mo			
	Terminals		Standard	Voltage
Connector	(+)	(-)	voltage	(Approx.)
	Terr	minal		
B75	1	16	9.0 - 16.0 V	Battery voltage

Is the inspection result normal?

YES >> INSPECTION END

NO >> Proceed to AV-222, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011490828

${f 1}.$ CHECK DATA LOGGER CONTROL MODULE POWER SUPPLY AND GROUND CIRCUIT

Check the data logger control module power supply and ground circuit. Refer to <u>AV-225, "DATA LOGGER CONTROL MODULE : Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> Replace data logger control module. Refer to AV-230, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

U1429 IT COMMUNICATION

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

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INFOID:0000000011490830

U1429 IT COMMUNICATION

DTC Logic INFOID:0000000011490829

DTC DETECTION LOGIC

DTC	CONSULT display	Detecting condition	Possible cause
U1429	IT COMM	The data logger control module detected malfunction of IT communication signal from vehicle data transmitter.	IT communication system Vehicle data transmitter

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 1 second or more.
- Turn ignition switch ON and wait at least 5 seconds or more.
- Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- Check DTC.

Is DTC "U1429" detected?

YES >> Proceed to AV-223, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK IT COMMUNICATION CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect vehicle data transmitter harness connector and data logger control module harness connec-
- 3. Check the continuity between vehicle data transmitter harness connector and data logger control module harness connector.

Vehicle data transmitter		Data logger control module		Continuity
Connector Terminal		Connector	Terminal	Continuity
B72	3	B75	7	Existed
	4	5/3	8	LAISIEU

Is the inspection result normal?

YES >> Replace vehicle data transmitter. Refer to AV-229, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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AV-223 Revision: 2015 June GT-R

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

POWER SUPPLY AND GROUND CIRCUIT VEHICLE DATA TRANSMITTER

VEHICLE DATA TRANSMITTER: Diagnosis Procedure

INFOID:0000000011490831

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.	Capacity
Battery	#6	10 A
Ignition power supply	#3	10 A
ACC power supply	#19	10 A

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace fuse after repairing the applicable circuit.

2. CHECK BATTERY POWER SUPPLY

1. Turn ignition switch OFF.

2. Check the voltage between vehicle data transmitter harness connector and ground.

Terminals				
(+)		Standard value	Voltage
Vehicle dat	a transmitter	(–)	Staridard value	(Approx.)
Connector	Terminal			
B72	1	Ground	9.0 - 16.0 V	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check battery power supply circuit.

3.CHECK IGNITION POWER SUPPLY

1. Turn ignition switch ON.

2. Check the voltage between vehicle data transmitter harness connector and ground.

Terminals				
(+)		Standard value	Voltage (Approx.)
Vehicle data	a transmitter	(–)		(Арргох.)
Connector	Terminal			
B72	7	Ground	9.0 - 16.0 V	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> Check ignition power supply circuit.

4. CHECK ACC POWER SUPPLY

Check the voltage between vehicle data transmitter harness connector and ground.

Terminals				
(Vehicle data	+) a transmitter	(–)	Standard value	Voltage (Approx.)
Connector	Terminal			
B72	8	Ground	9.0 - 16.0 V	Battery voltage

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

Is the inspection result normal?

YES >> GO TO 5.

NO >> Check ACC power supply circuit.

5. CHECK GROUND

- 1. Turn ignition switch OFF
- 2. Disconnect vehicle data transmitter harness connector.
- 3. Check the continuity between vehicle data transmitter harness connector and ground.

Vehicle data transmitter			Continuity
Connector	Terminal	Ground	Continuity
B72	12		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace malfunctioning parts.

DATA LOGGER CONTROL MODULE

DATA LOGGER CONTROL MODULE: Diagnosis Procedure

INFOID:0000000011490832

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1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.	Capacity
Battery	#6	10 A
Ignition power supply	#3	10 A
ACC power supply	#19	10 A

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace fuse after repairing the applicable circuit.

2. CHECK BATTERY POWER SUPPLY

- Turn ignition switch OFF.
- 2. Check the voltage between data logger control module harness connector and ground.

Terminals				
(+)		Standard value	Voltage
Data logger of	control module	(–)	Standard value	(Approx.)
Connector	Terminal			
B75	1	Ground	9.0 - 16.0 V	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check battery power supply circuit.

3.CHECK IGNITION POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Check the voltage between data logger control module harness connector and ground.

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Revision: 2015 June AV-225 GT-R

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[NissanConnect Nismo Plus]

Terminals				
(+)		Standard value	Voltage
Data logger o	control module	(–)	Standard value	(Approx.)
Connector	Terminal			
B75	9	Ground	9.0 - 16.0 V	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> Check ignition power supply circuit.

4. CHECK ACC POWER SUPPLY

Check the voltage between data logger control module harness connector and ground.

Terminals				
(+)	•	Standard value	Voltage
Data logger o	control module	(–)		(Approx.)
Connector	Terminal			
B75	10	Ground	9.0 - 16.0 V	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> Check ACC power supply circuit.

5. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect data logger control module harness connector.
- 3. Check the voltage between data logger control module harness connector and ground.

Data logger o	control module		Continuity
Connector	Terminal	Ground	Continuity
B75	16		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace malfunctioning parts.

THE USB MEMORY IS NOT RECOGNIZED OR DATA WRITING DOES NOT START

< SYMPTOM DIAGNOSIS >

[NissanConnect Nismo Plus]

SYMPTOM DIAGNOSIS

THE USB MEMORY IS NOT RECOGNIZED OR DATA WRITING DOES NOT **START**

Description INFOID:0000000011490833

The USB memory is not recognized when connected or data writing does not start.

Diagnosis Procedure

INFOID:0000000011490834

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CHECK DATA LOGGER LED

- Turn ignition switch ON.
- 2. Connect USB memory to USB connector.
- Check the status of data logger LED (red). Refer to AV-193, "USB Connector".

What is the status of data logger LED (red)?

Blinking>> GO TO 2.

OFF >> GO TO 3.

Blinks two times and then turns off>>USB memory cannot be recognized. Replace USB memory. Blinks three times and then turns off>>USB memory storage space is insufficient. Format USB memory.

2.check data logger switch

Check the data logger switch. Refer to AV-220, "Component Inspection".

Is the inspection result normal?

YES >> Perform intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> Replace USB connector. Refer to AV-232, "Removal and Installation".

3. CHECK USB HARNESS

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- Turn ignition switch OFF.
- Disconnect the USB harness between the USB connector and the data logger control module.
- 3. Check the continuity between the USB connector harness and data logger control module harness connector.

USB co	nnector	Data logger control module		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	5		17	
	6		18	
B74	7	B76	19	Existed
	8		20	
	9		21	

Is the inspection result normal?

YES >> Replace the data logger control module. Refer to AV-230, "Removal and Installation".

NO >> Replace USB harness. Refer to AV-232, "Removal and Installation".

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AV-227 Revision: 2015 June GT-R

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NORMAL OPERATING CONDITION

[NissanConnect Nismo Plus]

NORMAL OPERATING CONDITION

Description INFOID:000000011490835

Symptom	Cause	Action to take
	GPS signal is obstructed due to the vehicle being inside a building, in the shadow of numerous tall buildings, etc.	Move the vehicle to an open space.
GPS signal cannot be received.	There is an object placed on the GPS antenna.	Do not place objects on the GPS antenna.
	A sufficient number of GPS satellites are not available.	Wait for the satellites to change locations.
Bluetooth [®] connection is not possible.	The device being used is not supported.	Check that the device supports connectivity.
USB memory is not recognized, or it is not possible to write to USB memory.	A USB extension cable or USB hub is being used.	Do not use a USB extension cable or a USB hub.
	There is no empty storage space on the USB memory.	Perform formatting (of USB memory) to increase empty storage space. NOTE: Formatting USB memory may cause loss of data. To prevent this from occurring, copy data to another media before formatting.
	The USB memory used is of a standard lower than the supported standard.	Use a USB memory of USB 2.0 Hi-speed standard or higher.
	A USB memory formatted in a format other that FAT32 is being used.	Use a USB memory formatted in FAT32 format.
Writing stops in mid process.	Recording is performed continuously for an extended period of time (approximately 20 hours or more). (Data file size reaches 2GB.)	Format or replace the USB memory.

VEHICLE DATA TRANSMITTER

< REMOVAL AND INSTALLATION >

[NissanConnect Nismo Plus]

REMOVAL AND INSTALLATION

VEHICLE DATA TRANSMITTER

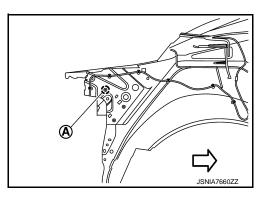
Removal and Installation

CAUTION:

Before replacing vehicle data transmitter, perform "SAVE VIN DATA" to save or print current vehicle specification. Refer to <u>AV-211</u>, "<u>Description</u>".

REMOVAL

- 1. Remove the trunk side finisher (LH). Refer to INT-27, "Exploded View".
- 2. Remove the data logger control module. Refer to AV-230, "Removal and Installation".
- 3. Disconnect the vehicle data transmitter harness connector.
- 4. Remove the vehicle data transmitter bracket mounting bolt (A).



5. Remove the vehicle data transmitter from the vehicle and than, remove the bracket.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

When replacing vehicle data transmitter, you must perform "WRITE VIN DATA" with CONSULT. Refer to AV-211, "Description".

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DATA LOGGER CONTROL MODULE

[NissanConnect Nismo Plus]

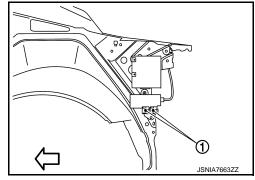
DATA LOGGER CONTROL MODULE

Removal and Installation

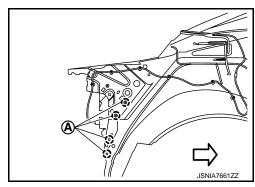
INFOID:0000000011490837

REMOVAL

- 1. Remove the trunk side finisher (LH). Refer to INT-27, "Exploded View".
- 2. Remove the relays ① from the data logger control module bracket.



- 3. Disconnect the data logger control module harness connector and GPS antenna harness connector.
- 4. Remove the data logger control module bracket mounting bolts (A).



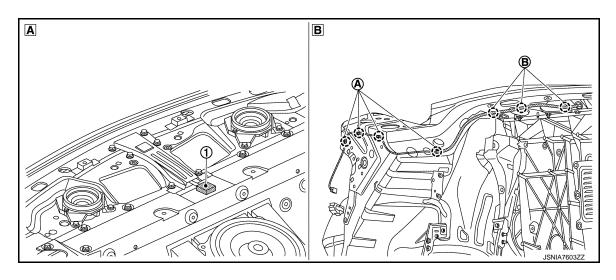
5. Remove the data logger control module from the vehicle and than, remove the bracket.

INSTALLATION

Install in the reverse order of removal.

GPS ANTENNA

Feeder Layout



- (1) GPS antenna
- A Harness clip

- (B) Harness band
- A Under the rear parcel shelf finisher
- B In trunk room

Removal and Installation

REMOVAL

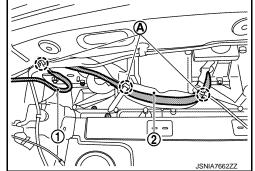
- Remove the trunk side finisher (LH) and trunk rear finisher. Refer to <u>INT-27, "Exploded View"</u>.
- 2. Remove the rear parcel shelf finisher. Refer to INT-19, "Removal and Installation".
- Disconnect the GPS antenna harness connector, harness clips and harness bands. Refer to <u>AV-231</u>, <u>"Feeder Lavout"</u>.
- 4. Remove the GPS antenna from the vehicle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Fix GPS antenna harness 1 to the vehicle harness 2 with a harness bands 3.



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USB CONNECTOR

< REMOVAL AND INSTALLATION >

[NissanConnect Nismo Plus]

USB CONNECTOR

Removal and Installation

INFOID:0000000011490840

REMOVAL

- 1. Remove the center console assembly. Refer to IP-23, "Removal and Installation".
- 2. Remove the USB connector from the center console assembly.

INSTALLATION

Install in the reverse order of removal.