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DTC Description749	TCU	771
Diagnosis Procedure749	Removal and Installation	
UAAAA TOU		
U1A01 TCU750	MICROPHONE	772
DTC Description		772
Diagnosis Procedure750		
U1A03 TCU751	TELEMATICS SWITCH	
DTC Description751	Domoval and Installation	773
Diagnosis Procedure751	TELEMATICS ANTENNA	77.4
	Pomoval and Installation	
U1A04 TCU 752	4	114
DTC Description752		775
Diagnosis Procedure752	Feeder Layout	
	•	_

[INFINITI INTOUCH] < PRECAUTION >

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.

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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "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.

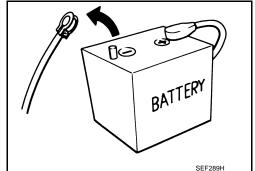
- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious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

Precautions for Removing Battery Terminal

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- · For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE : 4 minutes V9X engine : 4 minutes YD25DDTi D4D engine : 20 minutes : 2 minutes YS23DDT HR09DET : 12 minutes : 4 minutes HRA2DDT : 12 minutes YS23DDTT : 4 minutes ZD30DDTi : 60 seconds K9K engine : 4 minutes M9R engine : 4 minutes ZD30DDTT : 60 seconds R9M engine : 4 minutes



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.

 After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal. NOTE:

AV-11 Revision: November 2016 2016 Q50

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< PRECAUTION > [INFINITI INTOUCH]

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
- Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
- Driving for 30 minutes or more on a steep slope.
- 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.

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.

Precaution for Trouble Diagnosis

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AV COMMUNICATION SYSTEM

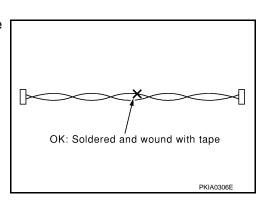
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

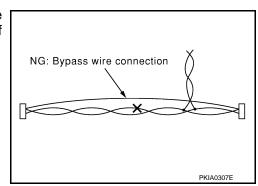
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AV COMMUNICATION SYSTEM

 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.)



PREPARATION

< PREPARATION > [INFINITI INTOUCH]

PREPARATION

PREPARATION

Commercial Service Tools

	Tool	Description	C
Power tool		Loosening screws	D
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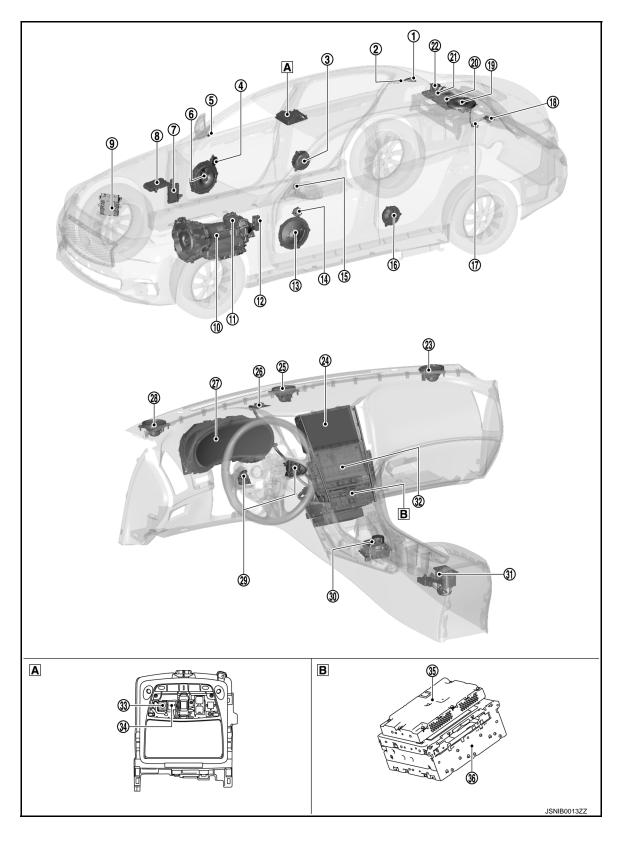
SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

WITH BOSE SYSTEM

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< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

A	Map lamp	B Back of integral switch	Α
No.	Component	Function	
1	Satellite antenna	Refer to AV-27, "Antenna and Antenna Feeder".	В
2	Rear microphone	Refer to AV-31, "Rear Microphone (for Active Noise Cancellation)".	
3	Rear door speaker RH	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	С
4	Front door squawker RH	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	
(5)	Tweeter RH	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	D
6	Front door woofer RH	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	
7	всм	 Inputs the dimmer signal to the display control unit. Transmits the vehicle setting signal to the display control unit via CAN communication. Refer to BCS-5, "BODY CONTROL SYSTEM: Component Parts Location" 	Е
8	ECM (for 2.0L turbo gasoline engine)	Transmits the following signals to the display control unit via CAN communication. Engine torque signal Accelerator pedal position signal Engine status signal Fuel consumption monitor signal Shift position signal Inputs the engine speed signal to the BOSE amp. Refer to EC4-25 , "ENGINE CONTROL SYSTEM: Component Parts Location", for detailed installation location.	F G
9	ECM (for VR30DDTT)	 Transmits the following signals to the display control unit via CAN communication. Engine torque signal Accelerator pedal position signal Engine status signal Fuel consumption monitor signal Inputs the engine speed signal to the BOSE amp. 	I
10	ТСМ	Transmits the shift position signal to the display control unit via CAN communication. (VR30DDTT) Refer to TM-13, "A/T CONTROL SYSTEM: Component Parts Location", for detailed installation location.	J
11)	ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the display control unit via CAN communication. Refer to BRC-10 . "Component Parts Location", for detailed installation location.	K
12	Chassis control module	Transmits the drive mode signal to the display control unit via CAN communication. Refer to DAS-516 , "Component Parts Location", for detailed installation location.	L
13	Front door woofer LH	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	
14)	Front door squawker LH	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	M
15	Tweeter LH	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	
16	Rear door speaker LH	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	AV
17	Antenna amp.	Refer to AV-27, "Antenna and Antenna Feeder".	
18	Satellite speaker LH	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	_
19	Rear woofer	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	O
20	BOSE amp.	Refer to AV-23, "WITH BOSE SYSTEM: BOSE Amp.".	
21)	Around view monitor control unit	Refer to AV-438, "Around View Monitor Control Unit".	Р
22	Satellite speaker RH	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	
23	Front squawker RH	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	
24)	Display control unit	Refer to AV-20, "Display Control Unit".	
25	Center squawker	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

No.	Component	Function	
26	GPS antenna	Refer to AV-27, "Antenna and Antenna Feeder".	
27	Combination meter	Transmits the following signals to the display control unit via CAN communication. • Distance to empty signal • Fuel level low warning signal • Vehicle speed signal	
28	Front squawker LH	Refer to AV-24, "WITH BOSE SYSTEM: Speaker".	
29	Steering switch	Refer to AV-27, "Steering Switch".	
30	Multifunction switch	Refer to AV-23, "Multifunction Switch".	
31)	External data input box	Refer to AV-23, "External Data Input Box".	
32	Integral switch	Refer to AV-22, "Integral Switch".	
33	Front microphone	Refer to AV-30, "Front Microphone (for Active Noise Cancellation or AudioPilot)".	
34	Microphone	Refer to AV-26, "Microphone (for Hands-free Phone/Voice Recognition)".	
35	NAVI control unit	Refer to AV-21, "NAVI Control Unit".	
36	AV control unit	Refer to AV-21, "AV Control Unit".	

WITHOUT BOSE SYSTEM

2.0l Turbo Gasoline Engine Models

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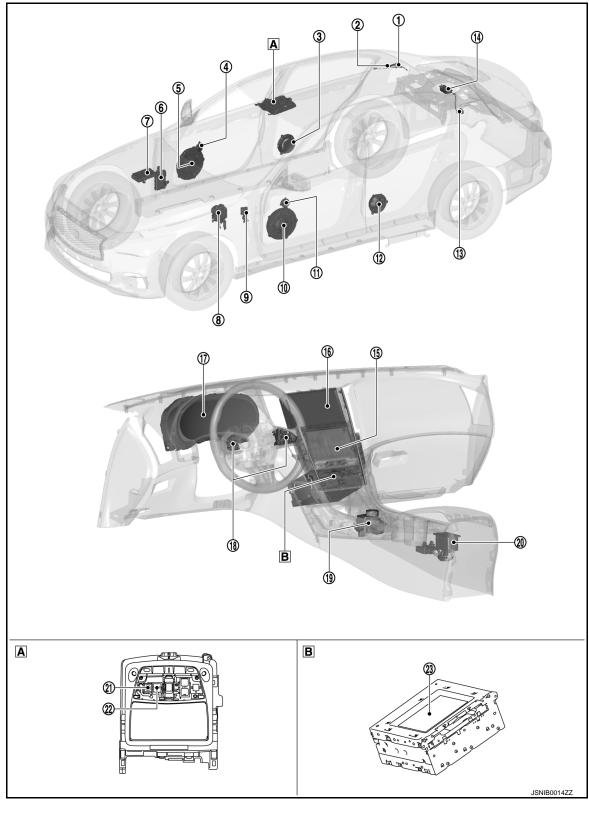
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Map lamp

B Back of integral switch

No.	Component	Function	
1	Satellite radio antenna	Refer to AV-27, "Antenna and Antenna Feeder".	
2	Rear microphone	Refer to AV-31, "Rear Microphone (for Active Noise Cancellation)".	

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

No.	Component	Function
3	Rear door speaker RH	Refer to AV-25, "WITHOUT BOSE SYSTEM: Speaker".
4	Front door squawker RH	Refer to AV-25, "WITHOUT BOSE SYSTEM: Speaker".
5	Front door speaker RH	Refer to AV-25, "WITHOUT BOSE SYSTEM: Speaker".
6	ВСМ	 Inputs the dimmer signal signals to the display control unit. Transmits the vehicle setting signal to the display control unit via CAN communication. Refer to <u>BCS-5</u>, "BODY CONTROL SYSTEM: Component Parts Location", for detailed installation location.
7	ECM	 Transmits the following signals to the display control unit via CAN communication. Engine status signal Fuel consumption monitor signal Shift position signal Inputs the engine speed signal signals to the active noise control unit Transmits the following signals to the active noise control unit via CAN communication. Engine torque signal Accelerator pedal position signal Refer to EC4-25. "ENGINE CONTROL SYSTEM: Component Parts Location".
8	ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the display control unit via CAN communication. Refer to BRC-10 , "Component Parts Location", for detailed installation location.
9	Chassis control module	Transmits the drive mode signal to the display control unit and active noise control unit via CAN communication. Refer to DAS-516, "Component Parts Location", for detailed installation location.
10	Front door speaker LH	Refer to AV-25, "WITHOUT BOSE SYSTEM: Speaker".
11)	Front door squawker LH	Refer to AV-25, "WITHOUT BOSE SYSTEM: Speaker".
12	Rear door speaker LH	Refer to AV-25, "WITHOUT BOSE SYSTEM: Speaker".
13	Antenna amp.	Refer to AV-27, "Antenna and Antenna Feeder".
14	Active noise control unit	Refer to AV-30, "Active Noise Control Unit".
15	Integral switch	Refer to AV-22, "Integral Switch".
16	Display control unit	Refer to AV-20, "Display Control Unit".
17	Combination meter	 Transmits the following signals to the display control unit via CAN communication. Distance to empty signal Fuel level low warning signal Vehicle speed signal Transmits the vehicle speed signal to the active noise control unit via CAN communication.
18	Steering switch	Refer to AV-27, "Steering Switch".
19	Multifunction switch	Refer to AV-23. "Multifunction Switch".
20	External data input box	Refer to AV-23, "External Data Input Box".
21	Front microphone	Refer to AV-30, "Front Microphone (for Active Noise Cancellation or AudioPilot)".
22	Microphone	Refer to AV-26, "Microphone (for Hands-free Phone/Voice Recognition)".
23	AV control unit	Refer to AV-21, "AV Control Unit".

VR30DDTT Engine Models

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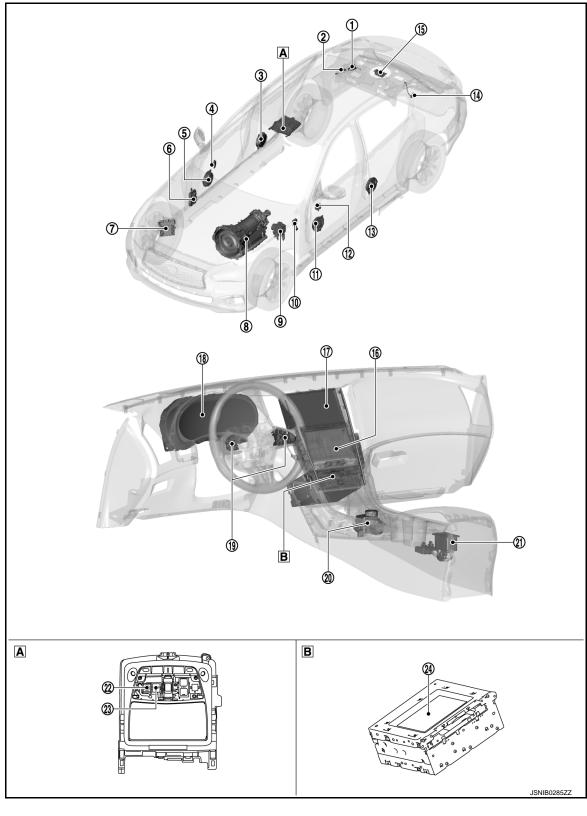
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Map lamp

B Back of integral switch

No.	Component	Function	
1	Satellite radio antenna	Refer to AV-27, "Antenna and Antenna Feeder".	
2	Rear microphone	Refer to AV-31, "Rear Microphone (for Active Noise Cancellation)".	

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

No.	Component	Function	
3	Rear door speaker RH	Refer to AV-25, "WITHOUT BOSE SYSTEM : Speaker".	
4	Front door squawker RH	Refer to AV-25, "WITHOUT BOSE SYSTEM: Speaker".	
5	Front door speaker RH	Refer to AV-25, "WITHOUT BOSE SYSTEM: Speaker".	
6	ВСМ	 Inputs the dimmer signal signals to the display control unit. Transmits the vehicle setting signal to the display control unit via CAN communication. Refer to <u>BCS-5</u>, "BODY CONTROL SYSTEM: Component Parts Location", for detailed installation location. 	
7	ECM	 Transmits the following signals to the display control unit via CAN communication. Engine status signal Fuel consumption monitor signal Inputs the engine speed signal signals to the active noise control unit Transmits the following signals to the active noise control unit via CAN communication. Engine torque signal Accelerator pedal position signal Refer to EC6-33, "ENGINE CONTROL SYSTEM: Component Parts Location". 	
8	ТСМ	Transmits the shift position signal to the display control unit via CAN communication. Refer to TM-13, "A/T CONTROL SYSTEM: Component Parts Location", for detailed installation location.	
9	ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the display control unit via CAN communication. Refer to BRC-10 , "Component Parts Location", for detailed installation location.	
10	Chassis control module	Transmits the drive mode signal to the display control unit and active noise control unit via CAN communication. Refer to DAS-516, "Component Parts Location", for detailed installation location.	
11	Front door speaker LH	Refer to AV-25, "WITHOUT BOSE SYSTEM : Speaker".	
12	Front door squawker LH	Refer to AV-25, "WITHOUT BOSE SYSTEM : Speaker".	
13	Rear door speaker LH	Refer to AV-25, "WITHOUT BOSE SYSTEM : Speaker".	
14)	Antenna amp.	Refer to AV-27, "Antenna and Antenna Feeder".	
15	Active noise control unit	Refer to AV-30, "Active Noise Control Unit".	
16	Integral switch	Refer to AV-22, "Integral Switch".	
17	Display control unit	Refer to AV-20, "Display Control Unit".	
18	Combination meter	 Transmits the following signals to the display control unit via CAN communication. Distance to empty signal Fuel level low warning signal Vehicle speed signal Transmits the vehicle speed signal to the active noise control unit via CAN communication. 	
19	Steering switch	Refer to AV-27, "Steering Switch".	
20	Multifunction switch	Refer to AV-23, "Multifunction Switch".	
21	External data input box	Refer to AV-23, "External Data Input Box".	
22	Front microphone	Refer to AV-30, "Front Microphone (for Active Noise Cancellation or AudioPilot)".	
23	Microphone	Refer to AV-26, "Microphone (for Hands-free Phone/Voice Recognition)".	
24	AV control unit	Refer to AV-21, "AV Control Unit".	

Display Control Unit

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DESCRIPTION

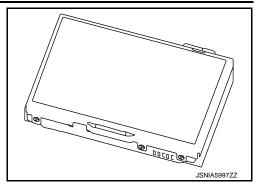
< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

- Display control unit is located in the center of the instrument panel assembly.
- Display control unit controls the Infiniti InTouch using the master unit that integrates the following functions.

Unit equipped
Display
Bluetooth [®] module
Display control unit can store applications in the built-in memory by

 Display control unit can store applications in the built-in memory by connecting a cell phone via Bluetooth[®] communication or USB communication (through external data input box).



SPECIFICATION

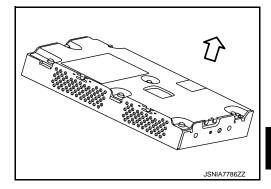
	Screen size		8-inch wide VGA (175.2 × 105.12)	
Display	Number of pixels	Number of pixels		
	Drive type	Drive type		
	Touch panel detection	Touch panel detection		
Capacity (for application software)			512 MB	
	Compliant communication type	Wireless connection	Bluetooth [®] communication	
	Compliant profile	Bluetooth [®] audio	A2DP 1.2	
Bluetooth [®] module			AVRCP 1.4	
bluetooth* module		Hands-free phone	HFP 1.0, 1.5	
			DUN 1.1	
			OPP 1.2	
Other functions			Voice recognition function	

NAVI Control Unit

DESCRIPTION

NAVI control unit is located on the back of integral switch.

⟨□ : Vehicle upper



- NAVI control unit controls the navigation system of Infiniti InTouch.
- It integrates a gyro sensor and acceleration sensor and calculates the vehicle position by combining the vehicle speed signal, reverse signal, and location information received from GPS antenna.
- Map data is obtained from the SD card that is inserted in external data input box.

AV Control Unit

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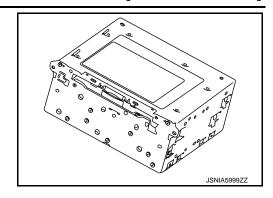
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AV

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

- AV control unit is located on the back of integral switch.
- AV control unit controls the audio system of Infiniti InTouch.



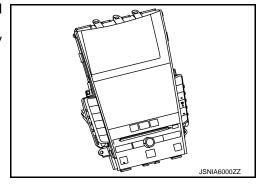
SPECIFICATION

Amplifier output (models without BOSE)			40 W × 4ch
	Playable disc		CD-ROM (CD-DA)
			CD-R
			CD-RW
CD drive	Playable format		WMA
			AAC
	Text display function	ID3/WMA/AAC tag	Artist name
			Album title
			Song title

Integral Switch

DESCRIPTION

- Integral switch is located in the center of the instrument panel assembly.
- Infiniti InTouch operation can be performed by touching the display (touch panel) and by pressing the hard switch.



SPECIFICATION

	Screen size	7-inch wide VGA
Display	LCD active area	152.44 × 91.44 mm (6 × 3.6 in)
Display	Number of pixels	800 × 480 pixels
	Touch panel detection	Capacitive type

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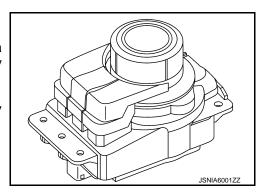
Multifunction Switch

Multifunction switch is located on the center console.

- Display of the display control unit can be operated.
- The multifunction switch is connected to the integral switch and a switch operation signal is transmitted to the display control unit by way of the integral switch via AV communication.

NOTE:

Camera switch signal is transmitted to the display control unit by way of the integral switch via hard wire.



External Data Input Box

WITH NAVIGATION

- External data input box is located in the console box.
- External data input box supports the following input, and is used by audio system and navigation system.

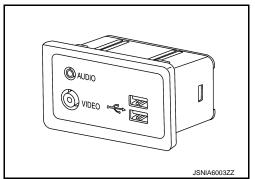
Interface
SD Card slot
USB port
Audio jack
Video jack

ON VIDEO (JSNIA6002ZZ

WITHOUT NAVIGATION

- External data input box is located in the console box.
- External data input box supports the following input, and is used by audio system.

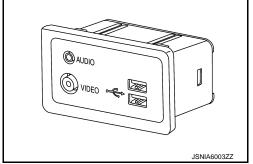
	Interface
USB port	
Audio jack	
Video jack	



WITH BOSE SYSTEM

WITH BOSE SYSTEM: BOSE Amp.

- BOSE amp. is located to the rear parcel shelf.
- · Receives sound signal from AV control unit, and outputs sound signal to each speaker, squawker, and woofer.



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ΑV

AV-23 Revision: November 2016 2016 Q50

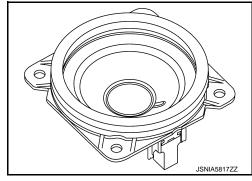
WITH BOSE SYSTEM: Speaker

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FRONT SQUAWKER

- \$\phi 8.0 \text{ cm (3.25 in) speaker is installed to the side of instrument panel.
- Sound signal is input from the BOSE amp. to output high, and mid range sound.

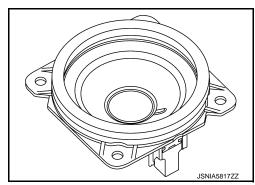
 $\begin{array}{ll} \text{Maximum input} & : 22.5 \text{ W} \\ \text{Rated input} & : 7.6 \text{ W} \\ \text{Impedance} & : 3.6 \text{ }\Omega \\ \end{array}$



CENTER SQUAWKER

- φ8.0 cm (3.25 in) speaker is installed to the center of instrument panel.
- Sound signal is input from the BOSE amp. to output high, and mid range sound.

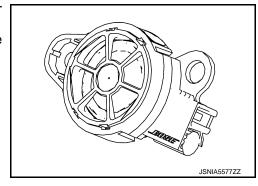
 $\begin{array}{lll} \text{Maximum input} & : 22.5 \text{ W} \\ \text{Rated input} & : 7.6 \text{ W} \\ \text{Impedance} & : 3.6 \text{ }\Omega \\ \end{array}$



TWEETER

- \$\phi2.5\$ cm (1 in) speaker is installed to the front door sash inner cover.
- Sound signal is input from the BOSE amp. to output high range sound.

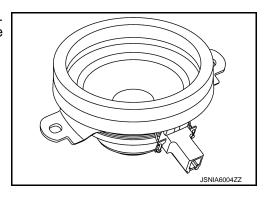
 $\begin{tabular}{lll} Maximum input & : 22.5 W \\ Rated input & : 7.6 W \\ Impedance & : 3.6 Ω \\ \end{tabular}$



FRONT DOOR SQUAWKER

- ϕ 8.0 cm (3.25 in) speaker is installed to the upper of the front door.
- Sound signal is input from the BOSE amp. to output mid range sound.

 $\begin{array}{lll} \text{Maximum input} & : 22.5 \text{ W} \\ \text{Rated input} & : 7.6 \text{ W} \\ \text{Impedance} & : 3.6 \text{ }\Omega \\ \end{array}$



FRONT DOOR WOOFER

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

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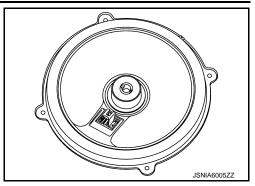
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• \$\phi25.0 cm (10 in) speaker is installed to the bottom of the front door.

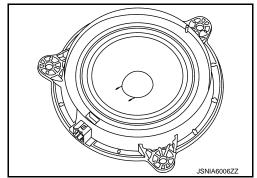
 Sound signal is input from the BOSE amp. to output low range sound.



REAR DOOR SPEAKER

- \$\phi 13.0 \text{ cm (5.25 in) speaker is installed to the bottom of the rear door.}
- Sound signal is input from the BOSE amp. to output high, mid and low range sound.

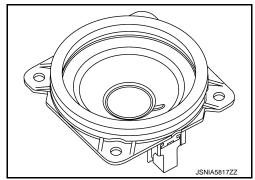
 $\begin{tabular}{lll} Maximum input & : 21.6 W \\ Rated input & : 7.2 W \\ Impedance & : 3.6 Ω \\ \end{tabular}$



SATELLITE SPEAKER

- φ8.0 cm (3.25 in) speaker is installed to the side of the rear parcel shelf.
- Sound signal is input from the BOSE amp. to output mid range sound.

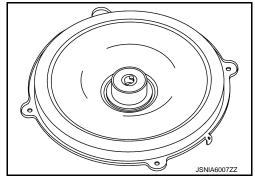
 $\begin{tabular}{lll} Maximum input & : 22.5 W \\ Rated input & : 7.6 W \\ Impedance & : 3.6 Ω \\ \end{tabular}$



REAR WOOFER

- \$\phi25.0\$ cm (10 in) speaker is installed to the center of the rear parcel shelf.
- Sound signal is input from the BOSE amp. to output low range sound.

 $\begin{array}{lll} \text{Maximum input} & : 40.5 \text{ W} \\ \text{Rated input} & : 13.6 \text{ W} \\ \text{Impedance} & : 2.0 \ \Omega \end{array}$



WITHOUT BOSE SYSTEM

WITHOUT BOSE SYSTEM: Speaker

FRONT DOOR SPEAKER

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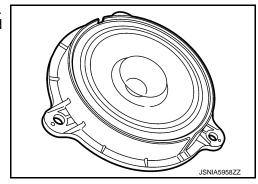
Revision: November 2016 AV-25 2016 Q50

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

- \$\phi16.0 cm (6.5 in) speaker is installed to the upper of the front door.
- Sound signal is input from the AV control unit to output high, mid and low range sound.

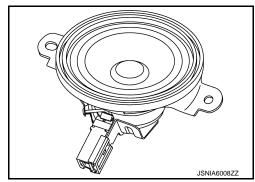
 $\begin{array}{lll} \mbox{Maximum input} & : 40.0 \ \mbox{W} \\ \mbox{Rated input} & : 20.0 \ \mbox{W} \\ \mbox{Impedance} & : 4.0 \ \mbox{Ω} \\ \end{array}$



FRONT SQUAWKER

- \$\phi 8.0 \text{ cm (3.25 in) speaker is installed to the bottom of the front door.
- Sound signal is input from the AV control unit to output high, and mid range sound.

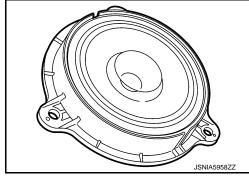
 $\begin{array}{ll} \text{Maximum input} & : 40.0 \text{ W} \\ \text{Rated input} & : 7.0 \text{ W} \\ \text{Impedance} & : 4.0 \Omega \\ \end{array}$



REAR DOOR SPEAKER

- \$\phi16.0 cm (6.5 in) speaker is installed to the bottom of the rear door.
- Sound signal is input from the AV control unit to output high, mid and low range sound.

 $\begin{array}{ll} \text{Maximum input} & : 40.0 \text{ W} \\ \text{Rated input} & : 20.0 \text{ W} \\ \text{Impedance} & : 4.0 \text{ } \Omega \end{array}$



Microphone (for Hands-free Phone/Voice Recognition)

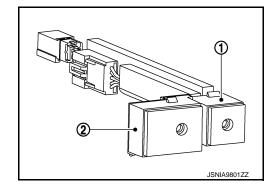
INFOID:0000000012795534

Microphone is installed on the map lamp assembly.

NOTE:

The microphone is integrated with the front microphone.

- ① Microphone (for hands-free phone/voice recognition)
- (2) Front microphone (for active noise cancellation or Audio Pilot)



WITH TELEMATICS SYSTEM

- The microphone is used for the operator system of CARWINGS, hands-free phone system, voice recognition function.
- The power is supplied from the TCU to the microphone, transmitting sound signals to the TCU at the during operator system of CARWINGS, hands-free phone communication, and voice recognition.

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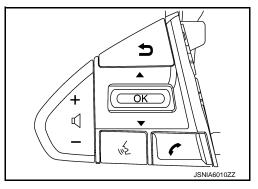
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WITHOUT TELEMATICS SYSTEM

The power is supplied from the display control unit to the microphone, transmitting sound signals to the display control unit at the during hands-free phone communication, or voice recognition.

Steering Switch

- Hands-free phone, navigation, and audio operations can be performed.
- This switch is connected to combination meter, and switch operation signal is transmitted to combination meter.
- Combination meter transmits steering switch signal to display control unit via AV communication.



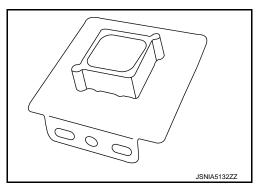
Antenna and Antenna Feeder

GPS ANTENNA

- GPS antenna is installed in the instrument panel.
- Power is supplied from the NAVI control unit.
- This antenna amplifies radio waves received from the GPS satellite and transmits the GPS signal to the NAVI control unit.

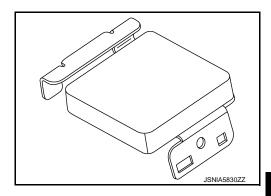
NOTE:

An object on the instrument panel may cause the reception sensitivity to be decreased.



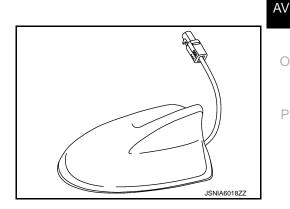
TELEMATICS ANTENNA

- Telematics antenna is installed in the instrument panel.
- Power is supplied with TCU activated.



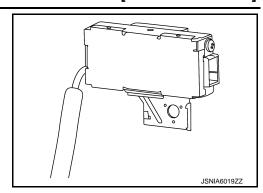
SATELLITE ANTENNA

- Satellite radio antenna is installed to the rear center of the roof.
- Receives satellite radio waves and outputs it to AV control unit.

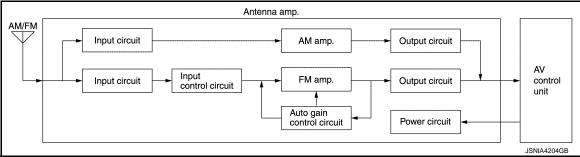


ANTENNA AMP. AND RADIO ANTENNA

• Antenna amp. is located on rear pillar (LH).



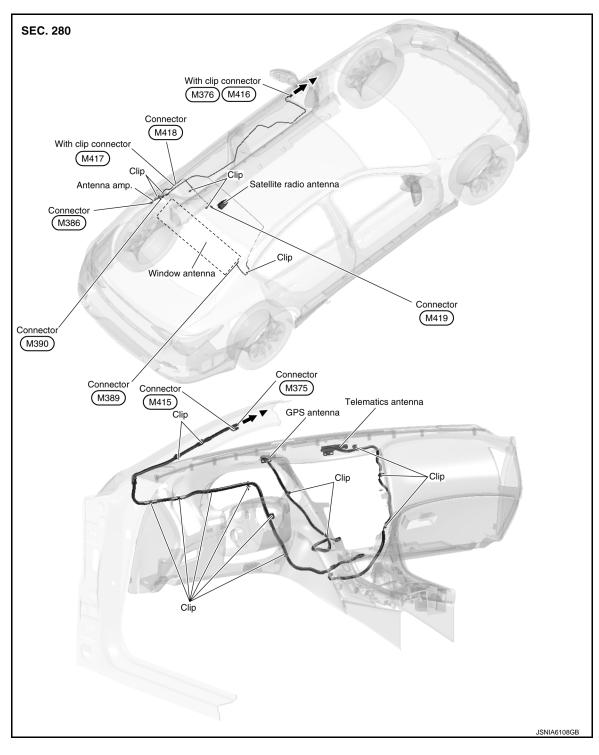
- AM/FM radio main antenna, and FM radio sub antenna on the rear window glass.
- The AM/FM radio main antenna path has an antenna amp. to obtain sufficient reception power.



CAUTION:

Affixing any mirror-type window films or metallic items (e.g. commercial antenna) on the rear window glass causes a reduction in the radio receiver sensitivity.

ANTENNA FEEDER



indicates that the part is connected at points with same symbol in actual vehicle.

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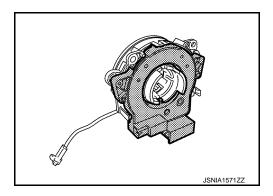
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Steering Angle Sensor

INFOID:0000000012795537

Steering angle sensor is installed to the spiral cable.



WITH AROUND VIEW MONITOR

Steering angle sensor sends the steering angle signal necessary for predictive course line of the front or rear view monitor to the around view monitor control unit via CAN communication.

WITHOUT AROUND VIEW MONITOR

Steering angle sensor sends the steering angle signal necessary for predictive course line of the rear view monitor to the display control unit via CAN communication.

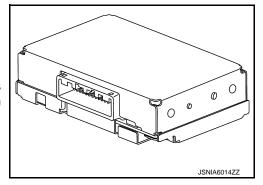
SD Card INFOID:000000012795538

Map data is sent to the NAVI control unit from the SD slot.

Active Noise Control Unit

INFOID:0000000013498122

- Active noise control unit is located in the rear parcel shelf.
- The active noise control unit has functions as follows:
- Active noise cancellation
- Active sound enhancement
- Diagnosis function with CONSULT
- CAN communication line connected to active noise control unit is used for active sound enhancement and diagnosis function with CONSULT.



Front Microphone (for Active Noise Cancellation or AudioPilot)

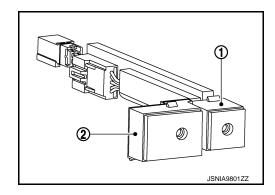
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Front microphone is installed on the map lamp assembly.

NOTE:

The front microphone is integrated with the microphone.

- (1) Microphone (for hands-free phone/voice recognition)
- 2 Front microphone (for active noise cancellation or Audio Pilot)



WITH BOSE SYSTEM

- The front microphone is used for the active noise cancellation system and AudioPilot[®].
- The power is supplied from the BOSE amp. to the microphone, transmitting sound signals to the BOSE amp. at the during active noise cancellation system and AudioPilot[®].

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

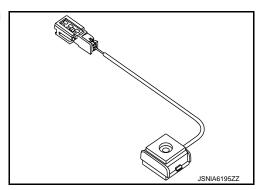
INFOID:0000000013498124

WITHOUT BOSE SYSTEM

- The front microphone is used for the active noise cancellation system.
- The power is supplied from the active noise control unit to the microphone, transmitting sound signals to the active noise control unit at the during active noise cancellation system.

Rear Microphone (for Active Noise Cancellation)

Rear microphone is installed on the rear center of the headlining assembly.



WITH BOSE AUDIO

- The rear microphone is used for the active noise cancellation system.
- The power is supplied from the BOSE amp. to the microphone, transmitting sound signals to the BOSE amp. at the during active noise cancellation system.

WITHOUT BOSE AUDIO

- The rear microphone is used for the active noise cancellation system.
- The power is supplied from the active noise control unit to the microphone, transmitting sound signals to the active noise control unit at the during active noise cancellation system.

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Revision: November 2016 AV-31 2016 Q50

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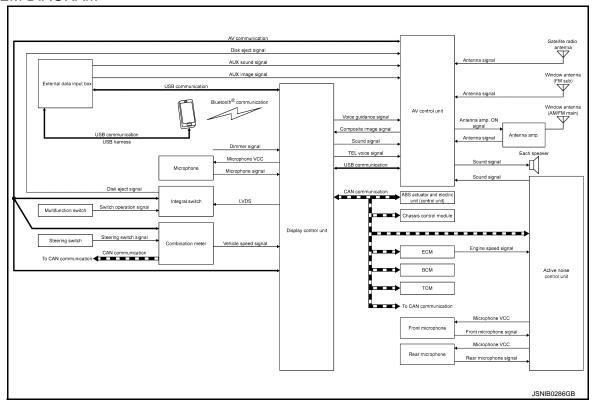
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INFINITI INTOUCH BASE AUDIO WITHOUT NAVIGATION

BASE AUDIO WITHOUT NAVIGATION: System Description

INFOID:0000000012795540

SYSTEM DIAGRAM



Display Control Unit Input Signal (CAN Communication)

Transmit unit	Signal name
	Engine status signal
ECM	Fuel consumption monitor signal
	Shift position signal*1
ABS actuator and electric unit (control unit)	Vehicle speed signal
	Distance to empty signal
Combination meter	Fuel level low warning signal
Combination meter	Parking brake switch signal
	Vehicle speed signal
Chassis control module	Drive mode signal
BCM	System setting signal
BCIVI	Door switch signal
TCM	Shift position signal*2

^{*1: 2.0}L turbo gasoline engine models

Active Noise Control Unit Input Signal (CAN Communication)

^{*2:} VR30DDTT engine models

[INFINITI INTOUCH]

Transmit unit	Signal name
ECM	Engine torque signal
	Engine speed signal
	Accelerator pedal position signal
Combination meter	Vehicle speed signal
Chassis control module	Drive mode signal
BCM	Door switch signal

DESCRIPTION

- Refer to Owner's Manual for Infiniti InTouch operating instructions.
- Display control unit controls the Infiniti InTouch.
- Infiniti InTouch consists of the systems listed in the following table.

System	Reference
Audio	AV-68, "WITHOUT BOSE SYSTEM: System Description"
Hands-free phone	AV-72, "WITHOUT BOSE SYSTEM : System Description"
Active noise cancellation	AV-78, "WITHOUT BOSE SYSTEM: System Description"
Active sound enhancement	AV-80, "WITHOUT BOSE SYSTEM : System Description"

NOTE:

For camera system, refer to AV-635, "System Description".

VOICE RECOGNITION

- By speaking a command, operations of hands-free phone can be performed.
- To perform the voice control, press the & switch of the steering switch. The system changes to the speech reception status. When a command is spoken, the speech recognition result is displayed, and the operation is executed.
- The voice control cannot be performed under the conditions listed below.
- When the camera image is displayed.
- When the hand-free phone is used.

NOTE:

DTMF can be sent via audio during a telephone call.

Major Functions

With this function, the list of commands used for telephone operation can be checked.

VEHICLE SETTINGS FUNCTION

The display control unit transmits and receives data signals via CAN communication with the BCM, allowing the following vehicle settings.

- Lamp ON When Door Unlock
- Light Sensitivity
- Light Off Delay
- Speed Sensing Wiper Interval
- Auto lock
- Auto Unlock (I-Key)
- Rain Sensor
- Answer Back
- IGN/ACC Battery Savar
- Lock/Unlock by Hands Free
- Touch Sensitive Door Sensor
- Lane Change (3 Flashes)
- Wipe Drip
- Answer Back Exterior Light
- Selective Door Unlock
- Lift Steering upone Exit
- Slide Driver Seat Back on Exit
- Reset All Setting to Default

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The setting items vary depending on the vehicle specification

AUTO LIGHT ADJUSTMENT SYSTEM

When the light switch is in the 1st or 2nd position, the dimming of the display is judged according to a dimmer signal transmitted from BCM to the display control unit. Display illuminance is independent of vehicle exterior illuminance detected by the auto light detecting sensor even when the light switch is in 1st or 2nd position.

LOG-IN FUNCTION

For details on log-in function, refer to DMS-17, "LOG-IN FUNCTION: System Description".

Bluetooth® COMMUNICATION

Bluetooth[®] module is integrated in the display control unit, and a cell phone and a portable audio device can be connected by wireless communication using Bluetooth[®].

USB COMMUNICATION

Each unit is connected by USB communication and used according to the descriptions in the following table.

Connecting unit	Description
Display control unit ⇔ AV control unit	Text information (the CD album title, artist name, and song title) is transmitted from AV control unit to display control unit.
Display control unit ⇔ External data input box	Music information stored in the iPod [®] or USB memory that is connected to external data input box is transmitted from external data input box to display control unit.

AV COMMUNICATION

Display control unit is connected to each unit via AV communication and used according to the descriptions in the following table.

Connecting unit	Description
AV control unit	The display control unit transmits a source switching signal to the AV control unit.
Integral switch	Integral switch transmits the operation signals of multifunction switch and integral switch to display control unit.
Combination meter	Display control unit transmits the information that is displayed on the information display of combination meter to combination meter.

LVDS

Display control unit is connected to each unit via LVDS and used according to the descriptions in the following table.

Image displayed on integral switch display is output from display control unit to integral switch.

Connecting unit	Description
Integral switch	Image displayed on display is output from display control unit to integral switch.

CLOCK

The display control unit incorporates a clock and displays time on the display screen.

Operating voltage (V)	9.0 V or more	
Accuracy (sec./day)	Ignition switch OFF	Approx. ± 6
	Ignition switch ACC	Approx. ± 3

NOTE:

The time is displayed on the display. When a time lag of more than the above described accuracy occurs, the display control unit battery power supply voltage may be low. In this case, check 12 V battery for malfunction causing low power supply voltage. Models with the navigation system are free of time lag resulted from low power supply voltage because of the synchronization with GPS signals.

BASE AUDIO WITHOUT NAVIGATION : Circuit Diagram

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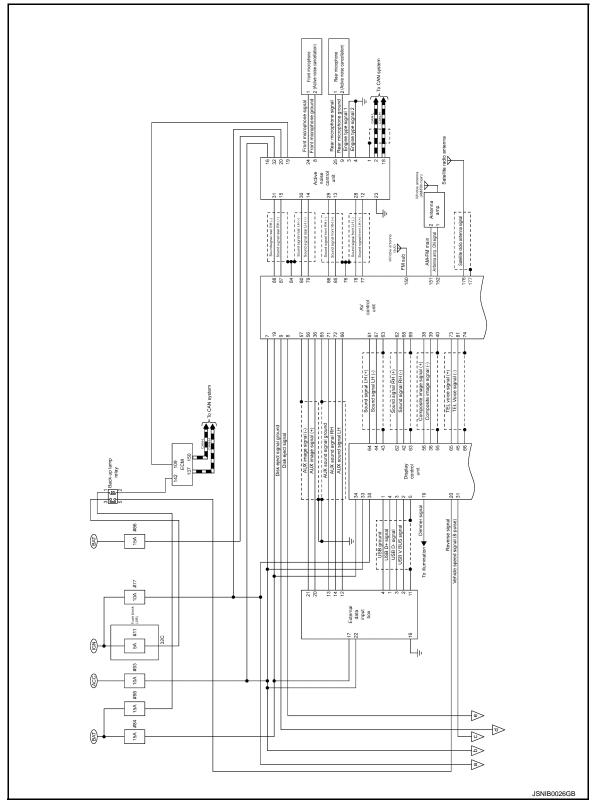
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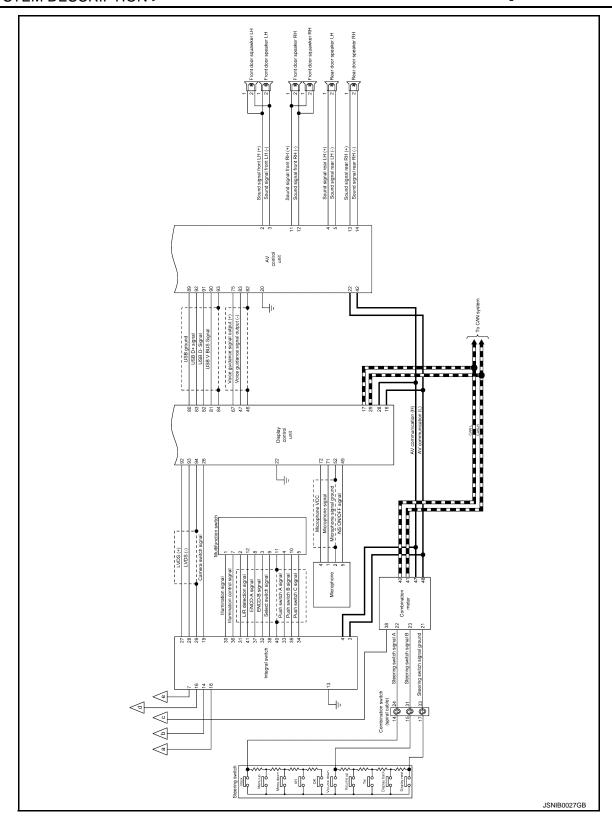
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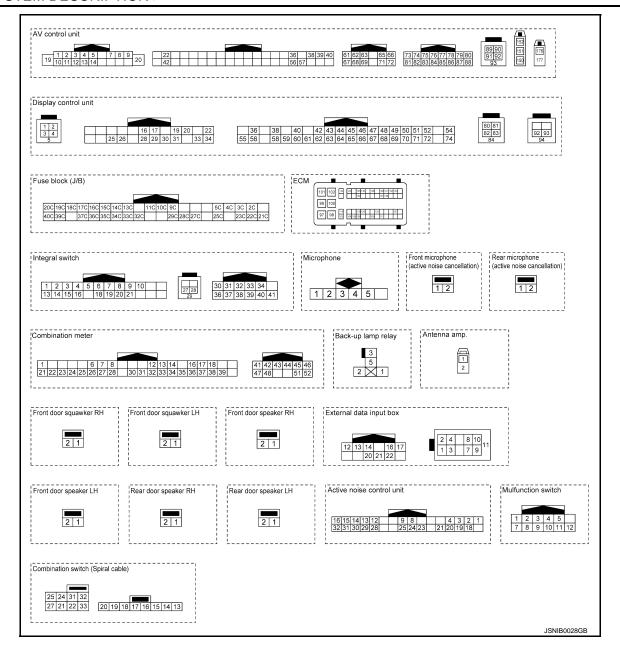
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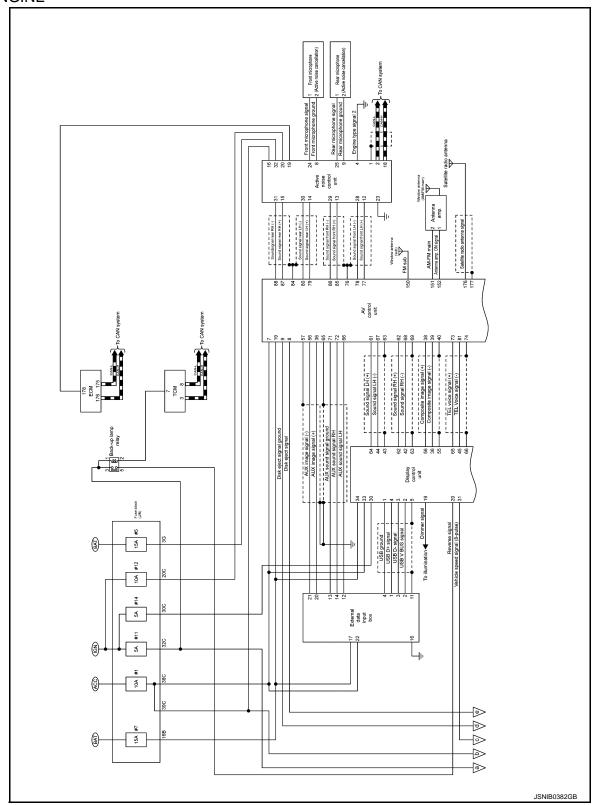


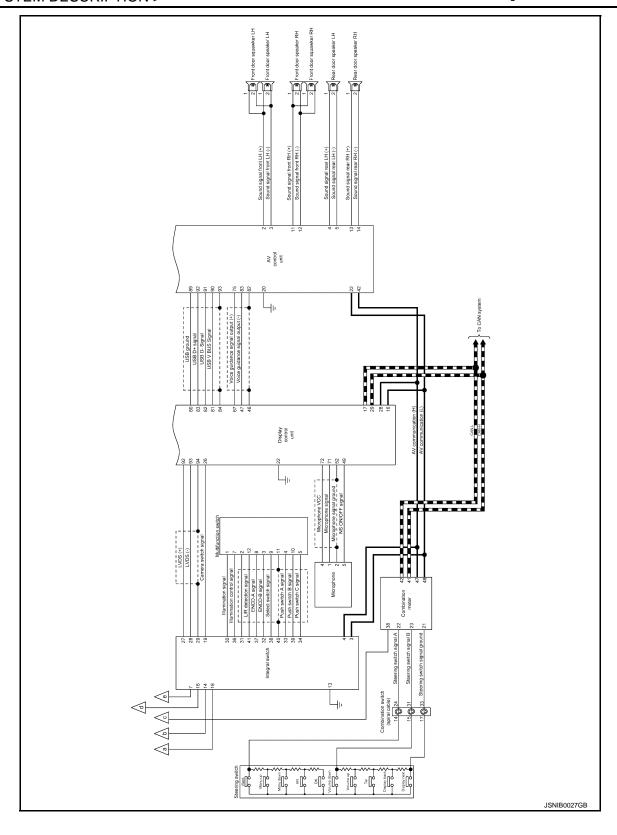
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VR ENGINE





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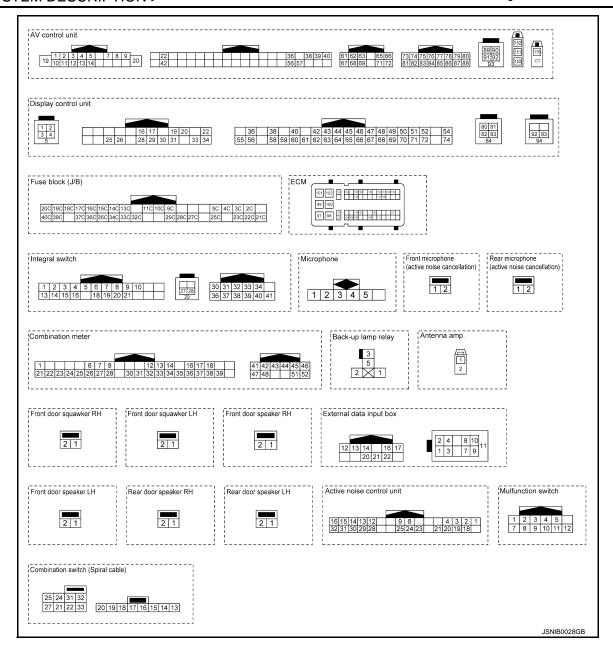
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BASE AUDIO WITHOUT NAVIGATION: Fail-Safe (Display Control Unit)

If a malfunction occurs in the Infiniti InTouch, display control unit performs fail-safe activation according to the detected malfunction.

Detection item	Infiniti InTouch operation in fail-safe mode	DTC
Engine speed signal	Active noise cancellation system and active sound enhancement system function are deactivated.	B1F01
Front microphone	Active noise cancellation function is deactivated.	B1F0B B1F0C B1F0D B1F0E
CAN communication	The system using the CAN communication signal from control unit which cannot communicate does not function.	U1000
	The system using the CAN communication signal does not function.	U1010

< SYSTEM DESCRIPTION >

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Detection item		Infiniti InTouch operation in fail-safe mode	DTC
Display control unit	 Display control un Display control un NOTE: 	 Display is not displayed. Display control unit restart. Display control unit freezes. NOTE: Symptom other than an item may occur. 	
Configuration	A function of display and destination.	control unit becomes mismatched with a vehicle specification	U1223
BOSE amp.	BOSE system does	not function.	U1231
Steering angle sensor	Predictive course lin	ne is not displayed.	U1232
NAVI control unit	 Map is not display Navigation screer NOTE: Symptom other than 	n does not operate.	U1233
AV control unit	 CD is not played. Radio does not op NOTE: 	Sound is not output by a speaker.CD is not played.Radio does not operate.	
GPS antenna	The vehicle position	s of a navigation screen differ.	U1244
	AV control unit	 Sound is not output by a speaker. CD is not played. Radio does not operate. NOTE: Symptom other than an item may occur. 	U1249
	BOSE amp.	Sound is not output by a speaker.	U124E
	Integral switch	 Integral switch display is not displayed. Switch operation does not operate. Touch panel operation does not operate. NOTE: Symptom other than an item may occur. 	U1259
AV communication	Around view monitor control unit	Camera image is not displayed.	U125B
	Combination meter	 Audio information is not displayed by the information display in the combination meter. Navigation indicator is not displayed by the information display in the combination meter. Steering switch does not operate. 	U1267
	Diaplay central unit	The system of ECU which detected abnormalities does not operate.	U1300
	Display control unit	The system which is using AV communication does not operate.	U1310
Satellite radio antenna	Satellite radio is not	Satellite radio is not received.	
USB communication	NAVI control unit	A navigation menu cannot be selected (hatching display).	U125D
	TCU	Telematics system does not function.	U1266
	External data input box	Audio equipment which connected to USB does not operate.	U12B7
Rear view camera	Rear camera image	Rear camera image is not displayed.	
Multifunction switch	Multifunction switch	Multifunction switch operation does not operate.	
Radio antenna	Radio is not receive	Radio is not received.	

Detection item	Infiniti InTouch operation in fail-safe mode				
		With BOSE system			
	Front door woofer	No sound from front door woofer LH or RH.	U1601 U1609		
	Front door squawk- er	No sound from front door squawker LH or RH.	U1602 U160A		
	Front door tweeter	No sound from front door tweeter LH or RH.	U1603 U160B		
	Front squawker	No sound from front squawker LH or RH.	U1626 U162E		
Speaker/squawker/tweeter/woofer	Front center squawker	No sound from front center squawker.	U162A		
	Rear door speaker	No sound from rear door speaker LH or RH.	U1708 U1710		
	Rear satellite speaker	No sound from rear satellite speaker LH or RH.	U1722 U172A		
	Rear woofer	No sound from rear woofer.	U1725		
	Without BOSE system				
	Front door speaker	No sound from front door speaker LH or RH.	U1600 U1608		
	Rear door speaker	No sound from rear door speaker LH or RH.	U1708 U1710		

BASE AUDIO WITHOUT NAVIGATION : Fail-Safe (Active Noise Control Unit)

INFOID:0000000013498213

If a malfunction occurs in the Active noise cancellation system or Active sound enhancement system, active noise control unit performs fail-safe activation according to the detected malfunction.

Detection item	ANC/ASC operation in fail-safe mode	DTC
Active noise control unit	Active noise cancellation system and Active sound enhancement system function are deactivated.	B1F00
	DTC B1F05, B1F06, B1F07 and B1F20 is detected	U1010
Engine speed signal	Active noise cancellation system and Active sound enhancement system function are deactivated.	B1F01
CAN communication	Active noise cancellation system and Active sound enhancement system function are deactivated	B1F05 U0100 U0140
	Active sound enhancement system function is deactivated	B1F06 B1F20 U0155
	Active noise cancellation system and Active sound enhancement system are fixed to a standard mode.	B1F07 U0198
	DTC B1F05, B1F06, B1F07 and B1F20 is detected	U1000
Front microphone	Active paige expeculation exetem function is desetivated	B1F0A
Rear microphone	Active noise cancellation system function is deactivated	B1F0F

BOSE AUDIO WITHOUT NAVIGATION

BOSE AUDIO WITHOUT NAVIGATION: System Description

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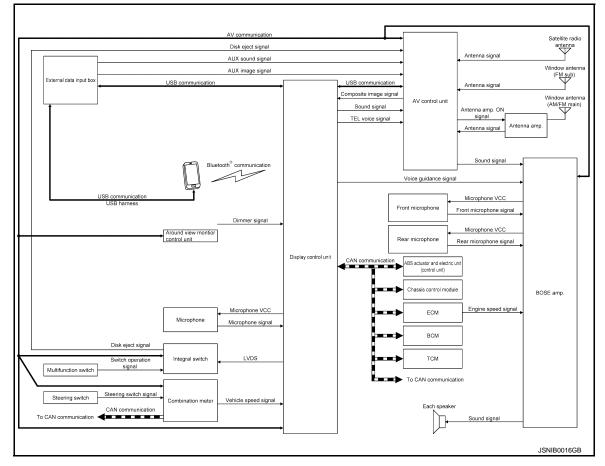
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SYSTEM DIAGRAM



Display Control Unit Input Signal (CAN Communication)

Transmit unit	Signal name
	Engine status signal
	Engine torque signal
504	Engine speed signal
ECM	Accelerator pedal position signal
	Fuel consumption monitor signal
	Shift position signal*1
ABS actuator and electric unit (control unit)	Vehicle speed signal
	Distance to empty signal
Combination meter	Fuel level low warning signal
Combination meter	Parking brake switch signal
	Vehicle speed signal
Chassis control module	Drive mode signal
DCM	System setting signal
BCM	Door switch signal
TCM	Shift position signal*2

^{*1: 2.0}L turbo gasoline engine models

DESCRIPTION

Revision: November 2016 AV-43 2016 Q50

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^{*2:} VR30DDTT engine models

< SYSTEM DESCRIPTION >

- Refer to Owner's Manual for Infiniti InTouch operating instructions.
- Display control unit controls the Infiniti InTouch.
- Infiniti InTouch consists of the systems listed in the following table.

System	Reference
Audio	AV-65, "WITH BOSE SYSTEM : System Description"
Hands-free phone	AV-71, "WITH BOSE SYSTEM : System Description"
Active noise cancellation	AV-77, "WITH BOSE SYSTEM : System Description"
Active sound enhancement	AV-79, "WITH BOSE SYSTEM : System Description"

NOTE:

For camera system, refer to following.

- Around view monitor system: AV-441, "System Description"
- Rear view monitor system: AV-635, "System Description"

VOICE RECOGNITION

- By speaking a command, operations of hands-free phone can be performed.
- To perform the voice control, press the & switch of the steering switch. The system changes to the speech reception status. When a command is spoken, the speech recognition result is displayed, and the operation is executed.
- The voice control cannot be performed under the conditions listed below.
- When the camera image is displayed
- When the hands-free phone is used

NOTE:

DTMF can be sent via audio during a telephone call.

Major Functions

With this function, the list of commands used for telephone operation can be checked.

VEHICLE SETTINGS FUNCTION

The display control unit transmits and receives data signals via CAN communication with the BCM, allowing the following vehicle settings.

- Lamp ON When Door Unlock
- Light Sensitivity
- Light Off Delay
- Speed Sensing Wiper Interval
- Auto lock
- Auto Unlock (I-Key)
- Rain Sensor
- Answer Back
- IGN/ACC Battery Savar
- Lock/Unlock by Hands Free
- Touch Sensitive Door Sensor
- Lane Change (3 Flashes)
- Wipe Drip
- · Answer Back Exterior Light
- Selective Door Unlock
- Lift Steering upone Exit
- Slide Driver Seat Back on Exit
- Reset All Setting to Default

NOTE:

The setting items vary depending on the vehicle specification

AUTO LIGHT ADJUSTMENT SYSTEM

When the light switch is in the 1st or 2nd position, the dimming of the display is judged according to a dimmer signal transmitted from BCM to the display control unit. Display illuminance is independent of vehicle exterior illuminance detected by the auto light detecting sensor even when the light switch is in 1st or 2nd position.

LOG-IN FUNCTION

For details on log-in function, refer to DMS-17, "LOG-IN FUNCTION: System Description".

Bluetooth® COMMUNICATION

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

Bluetooth[®] module is integrated in the display control unit, and a cell phone and a portable audio device can be connected by wireless communication using Bluetooth[®].

USB COMMUNICATION

Each unit is connected by USB communication and used according to the descriptions in the following table. Music information stored in the iPod[®] or USB memory that is connected to external data input box is transmitted from external data input box to display control unit.

Connecting unit	Description
Display control unit ⇔ AV control unit	Text information (the CD album title, artist name, and song title) is transmitted from AV control unit to display control unit.
Display control unit ⇔ External data input box	Music information stored in the iPod® or USB memory that is connected to external data input box is transmitted from external data input box to display control unit.

AV COMMUNICATION

Display control unit is connected to each unit via AV communication and used according to the descriptions in the following table.

Connecting unit	Description
AV control unit	The display control unit transmits a source switching signal to the AV control unit.
Around view monitor control unit	Camera image switching and setting signal is transmitted and received between display control unit and around view monitor control unit.
Integral switch	Integral switch transmits the operation signals of multifunction switch and integral switch to display control unit.
Combination meter	Display control unit transmits the information that is displayed on the information display of combination meter to combination meter.
BOSE amp.	Display control unit transmits the BOSE amp. ON signal to BOSE amp.

LVDS

Display control unit is connected to each unit via LVDS and used according to the descriptions in the following table.

Image displayed on integral switch display is output from display control unit to integral switch.

Connecting unit	Description
Integral switch	Image displayed on display is output from display control unit to integral switch.

CLOCK

The display control unit incorporates a clock and displays time on the display screen.

Operating voltage (V)	9.0 V or more	
Accuracy (sec./day)	Ignition switch OFF	Approx. ± 6
Accuracy (Sec./day)	Ignition switch ACC	Approx. ± 3

NOTE:

The time is displayed on the display. When a time lag of more than the above described accuracy occurs, the display control unit battery power supply voltage may be low. In this case, check 12 V battery for malfunction causing low power supply voltage. Models with the navigation system are free of time lag resulted from low power supply voltage because of the synchronization with GPS signals.

Revision: November 2016 AV-45 2016 Q50

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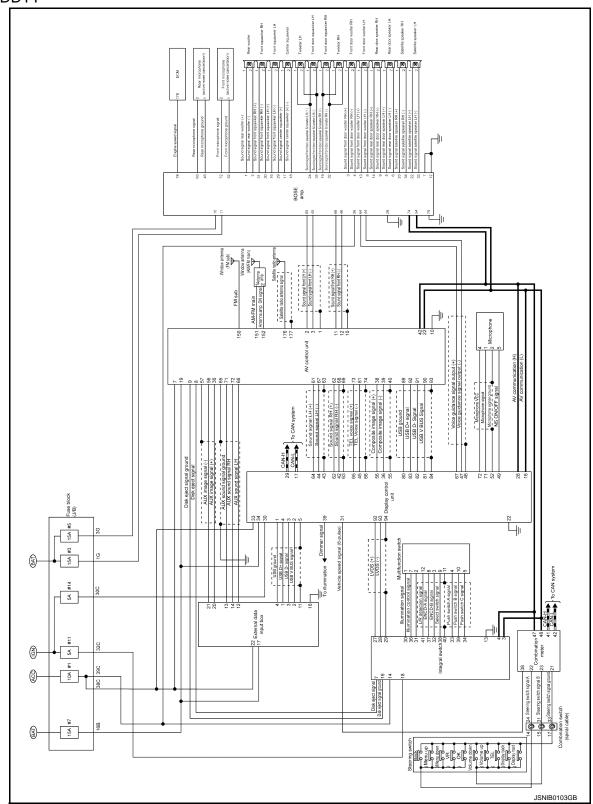
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BOSE AUDIO WITHOUT NAVIGATION : Circuit Diagram

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VR30DDTT



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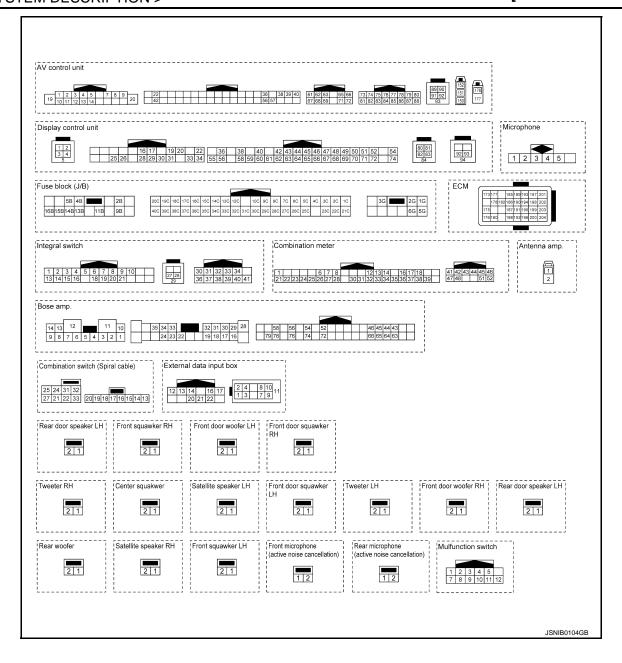
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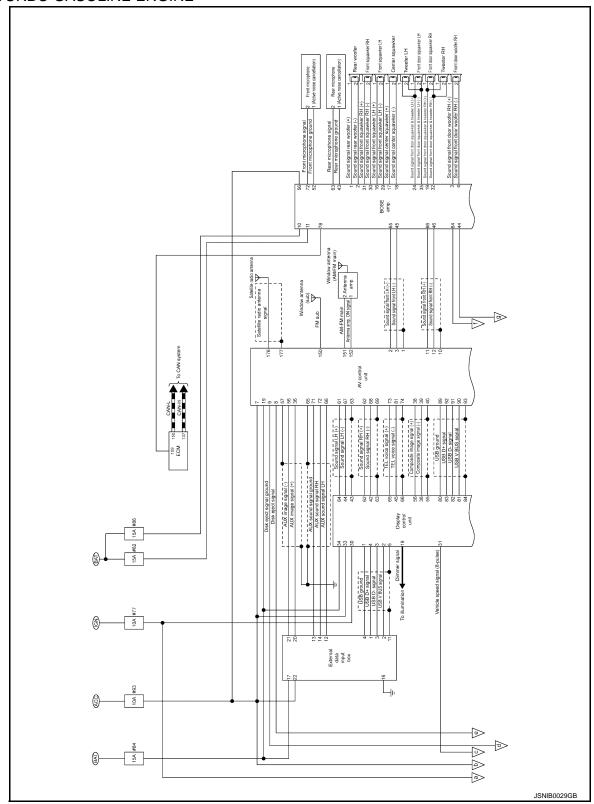


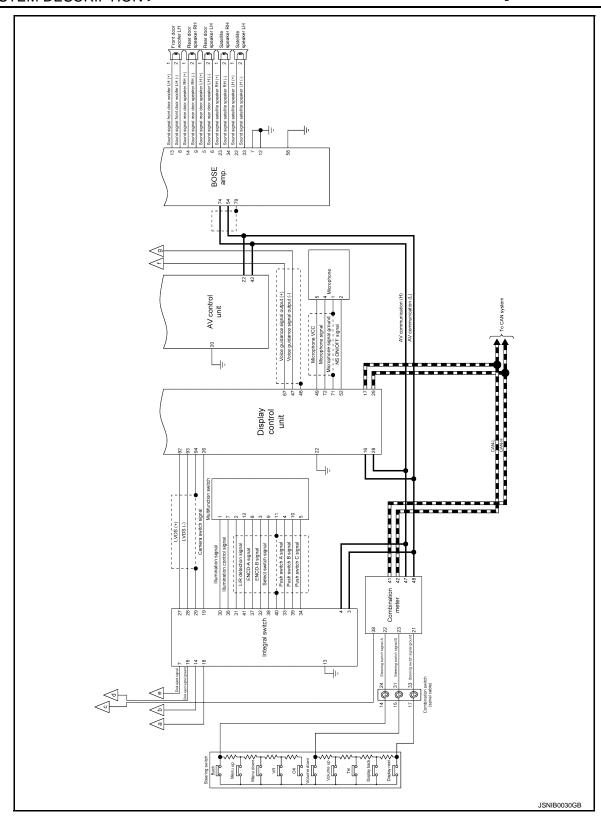
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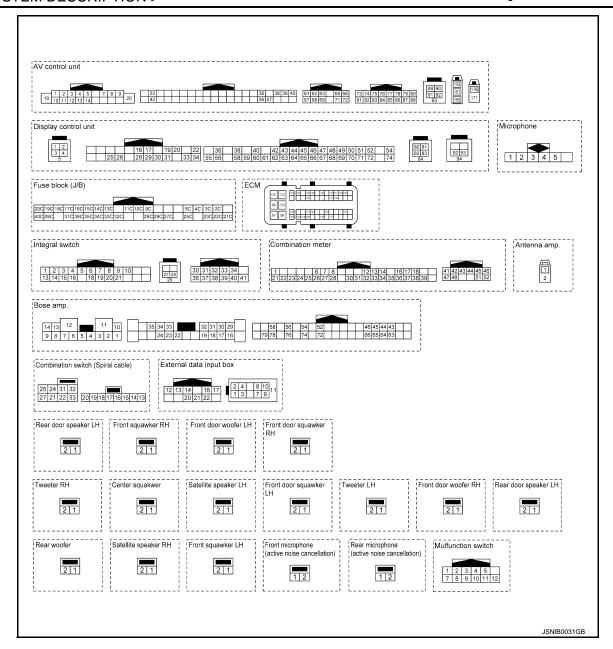
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BOSE AUDIO WITHOUT NAVIGATION: Fail-Safe (Display Control Unit) INFOID.000000013498

If a malfunction occurs in the Infiniti InTouch, display control unit performs fail-safe activation according to the detected malfunction.

Detection item	Infiniti InTouch operation in fail-safe mode	DTC
Engine speed signal	Active noise cancellation system and active sound enhancement system function are deactivated.	B1F01
Front microphone	Active noise cancellation function is deactivated.	B1F0B B1F0C B1F0D B1F0E
CAN communication	The system using the CAN communication signal from control unit which cannot communicate does not function.	U1000
	The system using the CAN communication signal does not function.	U1010

< SYSTEM DESCRIPTION >

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Detection item		Infiniti InTouch operation in fail-safe mode	DTC
Display control unit	 Display control un Display control un NOTE: 	 Display is not displayed. Display control unit restart. Display control unit freezes. NOTE: Symptom other than an item may occur. 	
Configuration	A function of display and destination.	control unit becomes mismatched with a vehicle specification	U1223
BOSE amp.	BOSE system does	not function.	U1231
Steering angle sensor	Predictive course lin	e is not displayed.	U1232
NAVI control unit	Map is not display Navigation screer NOTE: Symptom other than	does not operate.	U1233
AV control unit	CD is not played.Radio does not op NOTE:	Sound is not output by a speaker.CD is not played.Radio does not operate.	
GPS antenna	The vehicle position	s of a navigation screen differ.	U1244
	AV control unit	 Sound is not output by a speaker. CD is not played. Radio does not operate. NOTE: Symptom other than an item may occur. 	U1249
	BOSE amp.	Sound is not output by a speaker.	U124E
	Integral switch	 Integral switch display is not displayed. Switch operation does not operate. Touch panel operation does not operate. NOTE: Symptom other than an item may occur. 	U1259
AV communication	Around view monitor control unit	Camera image is not displayed.	U125B
	Combination meter	 Audio information is not displayed by the information display in the combination meter. Navigation indicator is not displayed by the information display in the combination meter. Steering switch does not operate. 	U1267
	Dieplay control unit	The system of ECU which detected abnormalities does not operate.	U1300
	Display control unit	The system which is using AV communication does not operate.	U1310
Satellite radio antenna	Satellite radio is not	Satellite radio is not received.	
	NAVI control unit	A navigation menu cannot be selected (hatching display).	U125D
USB communication	TCU	Telematics system does not function.	U1266
	External data input box	Audio equipment which connected to USB does not operate.	U12B7
Rear view camera	Rear camera image	Rear camera image is not displayed.	
Multifunction switch	Multifunction switch	operation does not operate.	U12BA
Radio antenna	Radio is not receive	Radio is not received.	

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

Detection item	Infiniti InTouch operation in fail-safe mode DTC		
	With BOSE system		
	Front door woofer	No sound from front door woofer LH or RH.	U1601 U1609
	Front door squawk- er	No sound from front door squawker LH or RH.	U1602 U160A
	Front door tweeter	No sound from front door tweeter LH or RH.	U1603 U160B
Speaker/squawker/tweeter/ woofer Re Re spi Re	Front squawker	No sound from front squawker LH or RH.	U1626 U162E
	Front center squawker	No sound from front center squawker.	U162A
	Rear door speaker	No sound from rear door speaker LH or RH.	U1708 U1710
	Rear satellite speaker	No sound from rear satellite speaker LH or RH.	U1722 U172A
	Rear woofer	No sound from rear woofer.	U1725
	Without BOSE system		
	Front door speaker	No sound from front door speaker LH or RH.	U1600 U1608
	Rear door speaker	No sound from rear door speaker LH or RH.	U1708 U1710

BOSE AUDIO WITH NAVIGATION

BOSE AUDIO WITH NAVIGATION: System Description

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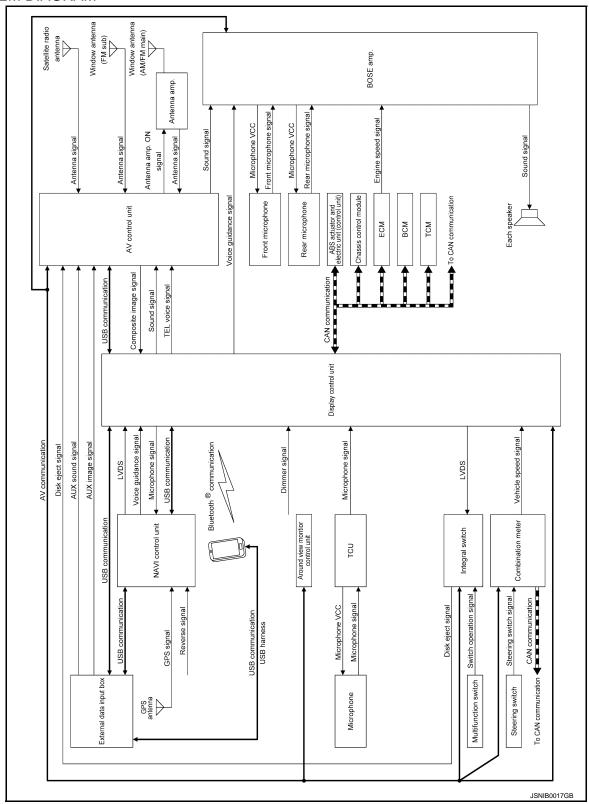
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SYSTEM DIAGRAM



Display Control Unit Input Signal (CAN Communication)

Transmit unit	Signal name
	Engine status signal
	Engine torque signal
FOM	Engine speed signal
ECM	Accelerator pedal position signal
	Fuel consumption monitor signal
	Shift position signal*1
ABS actuator and electric unit (control unit)	Vehicle speed signal
	Distance to empty signal
Combination meter	Fuel level low warning signal
Combination meter	Parking brake switch signal
	Vehicle speed signal
Chassis control module	Drive mode signal
BCM	System setting signal
DCIVI	Door switch signal
TCM	Shift position signal*2

^{*1: 2.0}L turbo gasoline engine models

DESCRIPTION

- Refer to Owner's Manual for multi AV system operating instructions.
- Display control unit controls the multi AV system.
- Multi AV system consists of the systems listed in the following table.

System	Reference
Audio	AV-65, "WITH BOSE SYSTEM : System Description"
Hands-free phone	AV-71, "WITH BOSE SYSTEM : System Description"
Active noise cancellation	AV-77, "WITH BOSE SYSTEM : System Description"
Active sound enhancement	AV-79, "WITH BOSE SYSTEM : System Description"

NOTE:

For camera system, refer to following.

- Around view monitor system: <u>AV-441</u>, "System Description"
- Rear view monitor system: <u>AV-635, "System Description"</u>

VOICE RECOGNITION

- By speaking a command, operations of navigation and hands-free phone can be performed.
- The voice control cannot be performed under the conditions listed below.
- When the camera image is displayed
- When the hand-free phone is used

NOTE:

DTMF can be sent via audio during a telephone call.

Major Functions

With this function, the list of commands used for telephone, and navigation operation can be checked.

VEHICLE SETTINGS FUNCTION

The display control unit transmits and receives data signals via CAN communication with the BCM, allowing the following vehicle settings.

- Lamp ON When Door Unlock
- Light Sensitivity
- Light Off Delay

^{*2:} VR30DDTT engine models

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

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- · Speed Sensing Wiper Interval
- Auto lock
- Auto Unlock (I-Key)
- Rain Sensor
- Answer Back
- IGN/ACC Battery Savar
- Lock/Unlock by Hands Free
- Touch Sensitive Door Sensor
- Lane Change (3 Flashes)
- Wipe Drip
- Answer Back Exterior Light
- Selective Door Unlock
- Lift Steering upone Exit
- Slide Driver Seat Back on Exit
- · Reset All Setting to Default

NOTE:

The setting items vary depending on the vehicle specification

AUTO LIGHT ADJUSTMENT SYSTEM

When the light switch is in the 1st or 2nd position, the dimming of the display is judged according to a dimmer signal transmitted from BCM to the display control unit. Display illuminance is independent of vehicle exterior illuminance detected by the auto light detecting sensor even when the light switch is in 1st or 2nd position.

LOG-IN FUNCTION

For details on log-in function, refer to DMS-17, "LOG-IN FUNCTION: System Description".

Bluetooth® COMMUNICATION

Bluetooth[®] module is integrated in the display control unit, and a cell phone and a portable audio device can be connected by wireless communication using Bluetooth[®].

USB COMMUNICATION

Each unit is connected by USB communication and used according to the descriptions in the following table. Map data stored in map SD card is transmitted from NAVI control unit to the display control unit.

Connecting unit	Description
Display control unit ⇔ NAVI control unit	 The NAVI control unit transmits map data to the display control unit. USB communication is used for operating Navigation.
Display control unit ⇔ AV control unit	Text information (the CD album title, artist name, and song title) is transmitted from AV control unit to display control unit.
Display control unit ⇔ External data input box	Music information stored in the iPod [®] or USB memory that is connected to external data input box is transmitted from external data input box to display control unit.
NAVI control unit ⇔ External data input box	The external data input box sends map data stored in Map SD card to the NAVI control unit.

AV COMMUNICATION

Display control unit is connected to each unit via AV communication and used according to the descriptions in the following table.

Connecting unit	Description
AV control unit	The display control unit transmits a source switching signal to the AV control unit.
Around view monitor control unit	Camera image switching and setting signal is transmitted and received between display control unit and around view monitor control unit.
Integral switch	Integral switch transmits the operation signals of multifunction switch and integral switch to display control unit.

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< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

Connecting unit	Description
Combination meter	Display control unit transmits the information that is displayed on the information display of combination meter to combination meter.
BOSE amp.	Display control unit transmits the BOSE amp. ON signal to BOSE amp.

LVDS

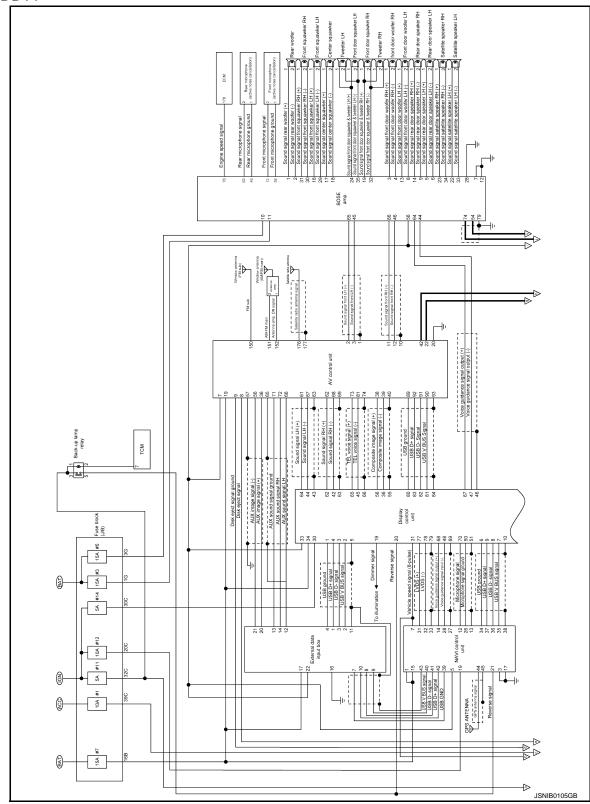
Display control unit is connected to each unit via LVDS and used according to the descriptions in the following table.

Connecting unit	Description
NAVI control unit	Map image displayed on the NAVI control unit display is output from NAVI control unit to display control unit.
Integral switch	Image displayed on display is output from display control unit to integral switch.

BOSE AUDIO WITH NAVIGATION : Circuit Diagram

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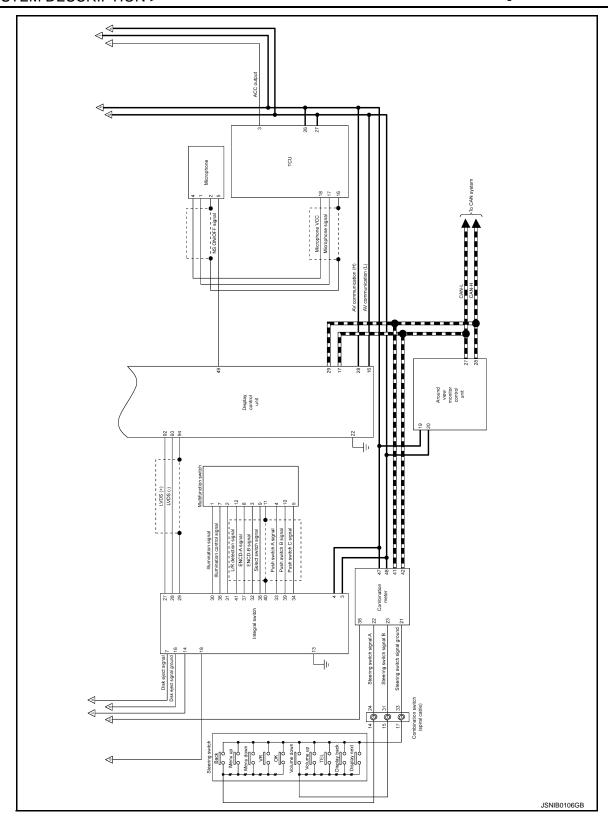
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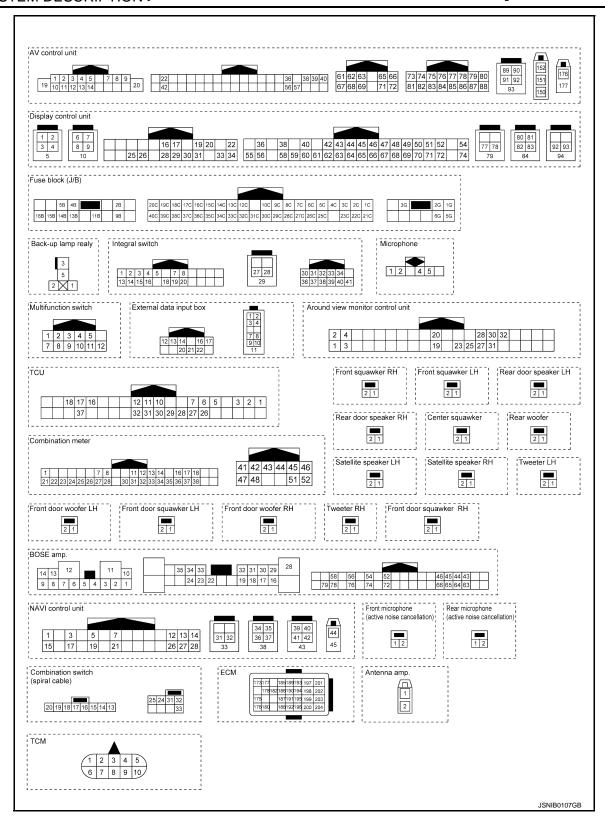
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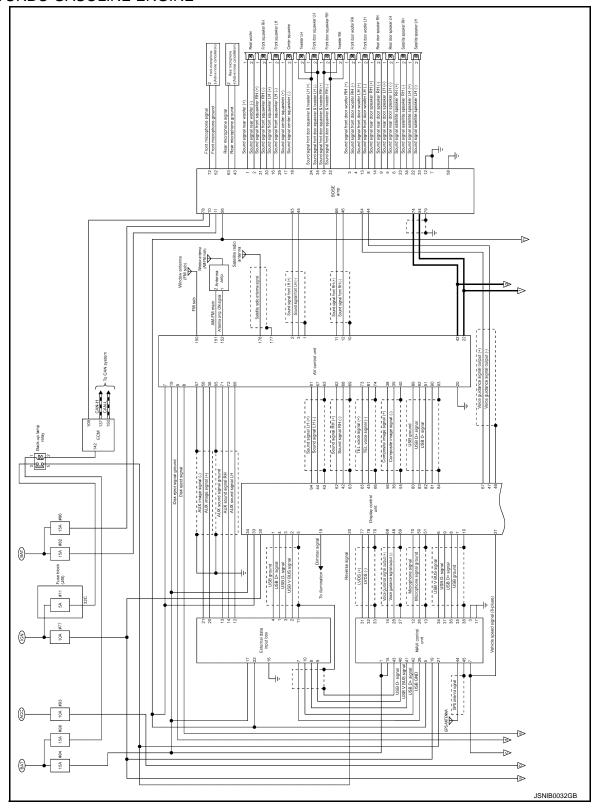
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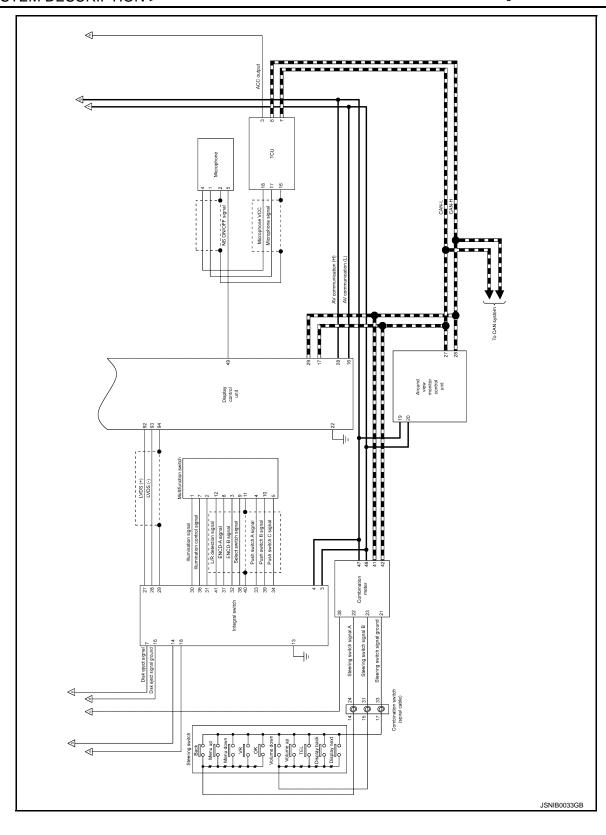
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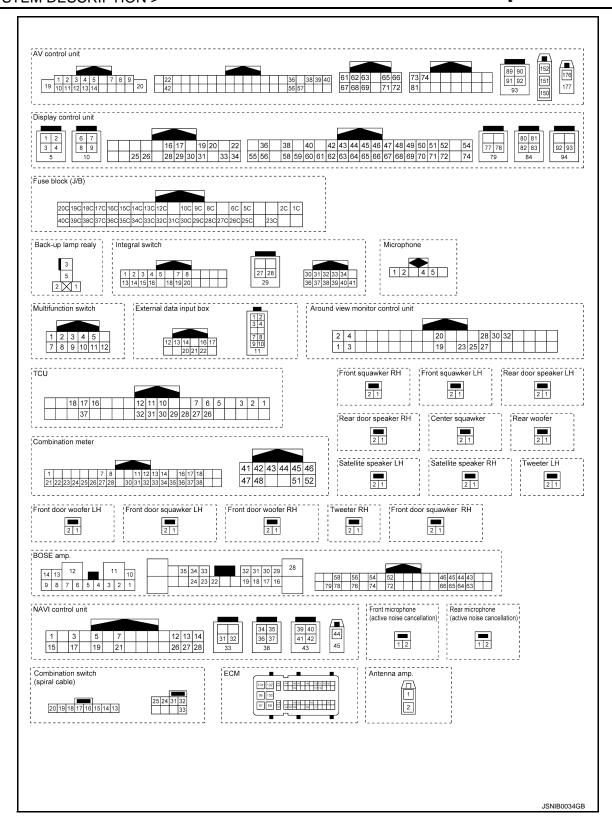
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BOSE AUDIO WITH NAVIGATION: Fail-Safe (Display Control Unit)

INFOID:0000000013498212

If a malfunction occurs in the Infiniti InTouch, display control unit performs fail-safe activation according to the detected malfunction.

[INFINITI INTOUCH]

Detection item	Infiniti InTouch operation in fail-safe mode		DTC
Engine speed signal	Active noise cancellation system and active sound enhancement system function are deactivated.		B1F01
Front microphone	Active noise cancellation function is deactivated.		B1F0B B1F0C B1F0D B1F0E
CAN communication	The system using the	e CAN communication signal from control unit which cannot not function.	U1000
	The system using th	e CAN communication signal does not function.	U1010
Display control unit	 Display is not disp Display control un Display control un NOTE: Symptom other than 	it restart. it freezes.	U121F
Configuration	A function of display and destination.	control unit becomes mismatched with a vehicle specification	U1223
BOSE amp.	BOSE system does	not function.	U1231
Steering angle sensor	Predictive course lin	e is not displayed.	U1232
NAVI control unit	Map is not displayed. Navigation screen does not operate.		U1233
AV control unit	Sound is not output by a speaker. CD is not played. Radio does not operate. NOTE: Symptom other than an item may occur.		U1234
GPS antenna	The vehicle position	The vehicle positions of a navigation screen differ.	
	AV control unit	 Sound is not output by a speaker. CD is not played. Radio does not operate. NOTE: Symptom other than an item may occur. 	U1249
	BOSE amp.	Sound is not output by a speaker.	U124E
	Integral switch	 Integral switch display is not displayed. Switch operation does not operate. Touch panel operation does not operate. NOTE: Symptom other than an item may occur. 	U1259
AV communication	Around view monitor control unit	Camera image is not displayed.	U125B
	Combination meter	 Audio information is not displayed by the information display in the combination meter. Navigation indicator is not displayed by the information display in the combination meter. Steering switch does not operate. 	U1267
	Display control unit	The system of ECU which detected abnormalities does not operate.	U1300
	Diopiay control and	The system which is using AV communication does not operate.	U1310
Satellite radio antenna	Satellite radio is not	received.	U1258

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

Detection item		Infiniti InTouch operation in fail-safe mode	DTC	
USB communication	NAVI control unit	A navigation menu cannot be selected (hatching display).	U125D	
	TCU	Telematics system does not function.	U1266	
	External data input box	Audio equipment which connected to USB does not operate.	U12B7	
Rear view camera	Rear camera image	is not displayed.	U12B8	
Multifunction switch	Multifunction switch	operation does not operate.	U12BA	
Radio antenna	Radio is not receive	Radio is not received.		
		With BOSE system	I	
From er From From Speaker/squawker/tweeter/ woofer Rear Rear spea Rear From	Front door woofer	No sound from front door woofer LH or RH.	U1601 U1609	
	Front door squawk- er	No sound from front door squawker LH or RH.	U1602 U160A	
	Front door tweeter	No sound from front door tweeter LH or RH.	U1603 U160B	
	Front squawker	No sound from front squawker LH or RH.	U1626 U162E	
	Front center squawker	No sound from front center squawker.	U162A	
	Rear door speaker	No sound from rear door speaker LH or RH.	U1708 U1710	
	Rear satellite speaker	No sound from rear satellite speaker LH or RH.	U1722 U172A	
	Rear woofer	No sound from rear woofer.	U1725	
		Without BOSE system		
	Front door speaker	No sound from front door speaker LH or RH.	U1600 U1608	
	Rear door speaker	No sound from rear door speaker LH or RH.	U1708 U1710	

AUDIO SYSTEM WITH BOSE SYSTEM

WITH BOSE SYSTEM: System Description

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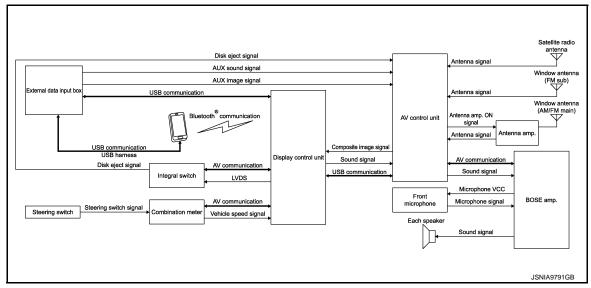
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SYSTEM DIAGRAM



DESCRIPTION

Refer to Owner's Manual for audio system operating instructions.

Audio system consists of the following functions.

Function		
Radio		
CD		
USB connection		
AUX		
Bluetooth [®] audio		
BOSE [®] Centerpoint [®]		
BOSE® AudioPilot®		
Audio indicator		

- Audio system is controlled by display control unit, AV control unit, and BOSE amp.
- Audio system can be operated with steering switch and integral switch.

RADIO

AM/FM Radio

- Radio signal for AM/FM radio is received by the antenna line printed on rear window.
- There are main and sub lines for the print of antenna line. Main is used for AM and FM, and sub is used for FM.

NOTE:

For FM radio with FM diversity function, AV control unit selects from main or sub the antenna that receives the higher signal strength.

- Antenna amp. is connected to the main antenna line, which receives the antenna amp. ON signal from the AV control unit and transmits the antenna signal to the AV control unit after amplifying the signal received from the AM and FM antennas.
- AV control unit transmits the sound signal to the BOSE amp when the antenna signal is received from the window antenna (main or sub).
- BOSE amp. transmits the sound signal received from AV control unit to each speaker.

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Satellite Radio

- Satellite radio tuner is built into AV control unit.
- Sound signal (satellite radio) is received by satellite radio antenna and is transmitted to AV control unit. AV
 control unit outputs sound signal to BOSE amp. The signal is also outputted from BOSE amp. to each
 speaker.

CD

AV control unit integrates the mechanism for reading the data stored in CD.

Music playback

- When AV control unit reads the music data from CD, it transmits the sound signal to BOSE amp.
- BOSE amp. transmits the sound signal received from AV control unit to each speaker.

Display of artist, album and song title

- When AV control unit reads the text data from CD, it transmits text information to the display control unit via USB communication.
- Display control unit displays the text data (artist, album, and song title) that is received from the AV control unit.

NOTE:

For the types of disc and music data format available for replay, refer to AV-21, "AV Control Unit".

USB CONNECTION

- USB port is located in the external data input box.
- When iPod[®] or USB memory is connected to the USB port, the external data input box transmits the music data and text data in iPod[®] or USB memory device to the display control unit via USB communication.
- When display control unit receives the music data from the external data input box, it transmits the sound signal to the AV control unit.
- When AV control unit transmits the sound signal from the display control unit, it transmits the sound signal to BOSE amp.
- BOSE amp. transmits the sound signal received from AV control unit to each speaker.
- When display control unit receives the text data from external data input box, it displays the text data (artist, album, and song title) on the display.

AUX

- Auxiliary input jacks are located in the external data input box.
- Auxiliary input jacks consist of the image input terminal and sound input terminal.
- When image data from outside is input into the image input terminal, the external data input box transmits the AUX image signal to AV control unit.
- When AV control unit received the AUX image signal, it transmits the composite image signal to the display control unit.
- When display control unit receives the composite image signal, it displays the image on the display.
- When sound data is input into the sound input terminal, the external data input box transmits the AUX sound signal to the AV control unit.
- When AV control unit receives the AUX sound signal, it transmits the sound signal to BOSE amp.
- BOSE amp. transmits the sound signal received from AV control unit to each speaker.

Bluetooth® AUDIO

- Bluetooth[®] module is integrated in the display control unit.
- Music data, artist, album, and song title in a portable audio device can be played/displayed via Bluetooth[®] communication.
- When display control unit receives the music data from a portable audio device via Bluetooth[®] communication, it transmits the sound signal to AV control unit.
- When AV control unit transmits the sound signal from the display control unit, it transmits the sound signal to BOSE amp.
- BOSE amp. transmits the sound signal received from AV control unit to each speaker.
- When display control unit receives the text data from a portable audio device via Bluetooth[®] communication, it displays the text data (artist, album, and song title) on the display.
- For further information about Bluetooth[®] compliant profile, refer to AV-21, "AV Control Unit".

BOSE® Centerpoint®

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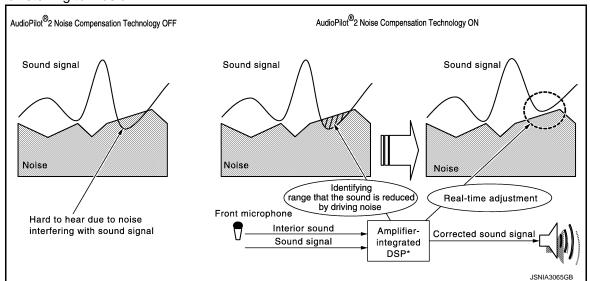
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< SYSTEM DESCRIPTION >

- BOSE[®] Centerpoint[®] provides a surround-sound effect, based on a stereo sound source, such as CD, MP3, WMA, and AAC.
- The BOSE amp. receives a BOSE® Centerpoint® ON signal from display control unit during a stereophonic sound playback and divides the sound among five channels to add a sense of simulated surround playback sound.

BOSE® AudioPilot® Noise Compensation Technology

- BOSE® AudioPilot® continuously corrects audio signals to compensate for background noise.
- BOSE[®] AudioPilot[®] noise compensation technology is a sound improving system that picks up by a front microphone any noises or the sound of music coming into the vehicle, and that uses the BOSE amp. to revise the frequency feature of music in real time in response to the frequency feature of the noise while driving and listening to music.



*: 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.

AUDIO INDICATOR

- The AV control unit sends the status of audio to the display control unit via AV communication.
- The display control unit transmits the meter display signal as the audio status to the combination meter via AV communication.
- When combination meter receives the meter display signal, the audio status is displayed on the information display in combination meter.

WITHOUT BOSE SYSTEM

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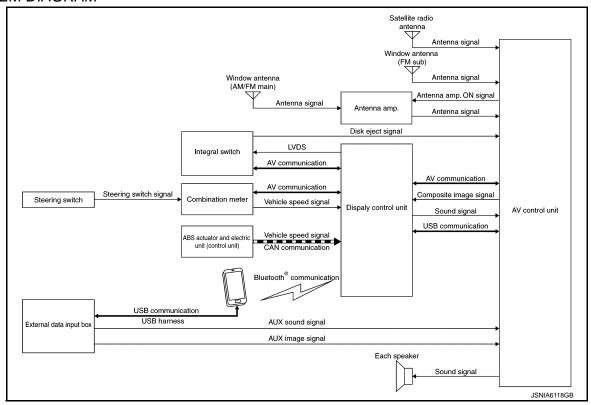
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WITHOUT BOSE SYSTEM: System Description

INFOID:0000000012795550

SYSTEM DIAGRAM



Display Control Unit Input Signal (CAN Communication)

Transmit unit	Signal name
ABS actuator and electric unit (control unit)	Vehicle speed signal

DESCRIPTION

Refer to Owner's Manual for audio system operating instructions.

• Audio system consists of the following functions.

Function
Radio
CD
USB connection
AUX
Bluetooth [®] audio
Speed Sensitive Volume
Audio indicator

- Audio system is controlled by display control unit and AV control unit.
- · Audio system can be operated with steering switch and integral switch.

RADIO

AM/FM radio

- Radio signal for AM/FM radio is received by the antenna line printed on rear window.
- There are main and sub lines for the print of antenna line. Main is used for AM and FM, and sub is used for FM.

NOTE:

AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

For FM radio with FM diversity function, AV control unit selects from main or sub the antenna that receives the higher signal strength.

- Antenna amp. is connected to the main antenna line, which receives the antenna amp. ON signal from the AV control unit, and transmits the antenna signal to the AV control unit after amplifying the AM or FM radio
- AV control unit transmits the sound signal to the each speaker when the antenna signal is received from the window antenna (main or sub).

Satellite Radio

- Satellite radio tuner is built into AV control unit.
- Sound signal (satellite radio) is received by satellite radio antenna and is transmitted to AV control unit. AV control unit outputs sound signal to each speaker.

CD

AV control unit integrates the mechanism for reading the data stored in CD.

When AV control unit reads the music data from CD, it transmits the sound signal to each speaker.

Display of artist, album and song title

- When AV control unit reads the text data from CD, it transmits text information to the display control unit via USB communication.
- Display control unit displays the text data (artist, album, and song title) that is received from the AV control

NOTE:

For the types of disc and music data format available for replay, refer to AV-21, "AV Control Unit".

USB CONNECTION

- USB port is located in the external data input box.
- When iPod® or USB memory is connected to the USB port, the external data input box transmits the music data and text data in iPod® or USB memory device to the display control unit via USB communication.
- When display control unit receives the music data from the external data input box, it transmits the sound signal to the AV control unit.
- When AV control unit transmits the sound signal from the display control unit, it transmits the sound signal to each speaker.
- When display control unit receives the text data from external data input box, it displays the text data (artist, album, and song title) on the display.

AUX

- Auxiliary input jacks are located in the external data input box.
- Auxiliary input jacks consist of the image input terminal and sound input terminal.
- When image data from outside is input into the image input terminal, the external data input box transmits the AUX image signal to AV control unit.
- When AV control unit received the AUX image signal, it transmits the composite image signal to the display
- When display control unit receives the composite image signal, it displays the image on the display.
- When sound data is input into the sound input terminal, the external data input box transmits the AUX sound signal to the AV control unit.
- When AV control unit receives the AUX sound signal, it transmits the sound signal to each speaker.

Bluetooth® AUDIO

- Bluetooth[®] module is integrated in the display control unit.
- Music data, artist, album, and song title in a portable audio device can be played/displayed via Bluetooth[®] communication.
- When display control unit receives the music data from a portable audio device via Bluetooth[®] communication, it transmits the sound signal to AV control unit.
- When AV control unit transmits the sound signal from the display control unit, it transmits the sound signal to each speaker.
- When display control unit receives the text data from a portable audio device via Bluetooth® communication. it displays the text data (artist, album, and song title) on the display.
- For further information about Bluetooth[®] compliant profile, refer to AV-21, "AV Control Unit".

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AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

SPEED SENSITIVE VOLUME

- Display control unit receives the vehicle speed signal from ABS actuator and electric unit (control unit) via CAN communication and transmits the vehicle speed signal to AV control unit via AV communication.
- AV control unit determines the volume level according to the vehicle speed signal received from display control unit, and transmits the sound signal to each speaker.
- The display control unit receives the vehicle speed signal from the combination meter and changes the sound volume in conjunction with the vehicle speed.
- The control level can be selected by the customer.

AUDIO INDICATOR

- The AV control unit sends the status of audio to the display control unit via AV communication.
- The display control unit transmits the meter display signal as the audio status to the combination meter via AV communication.
- When combination meter receives the meter display signal, the audio status is displayed on the information display in combination meter.

HANDS-FREE PHONE SYSTEM WITH BOSE SYSTEM

WITH BOSE SYSTEM: System Description

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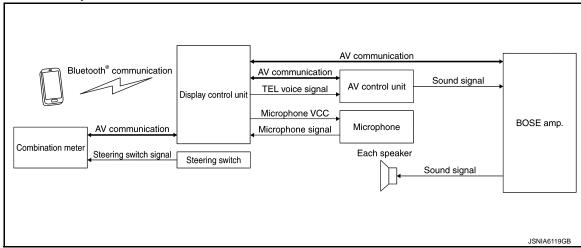
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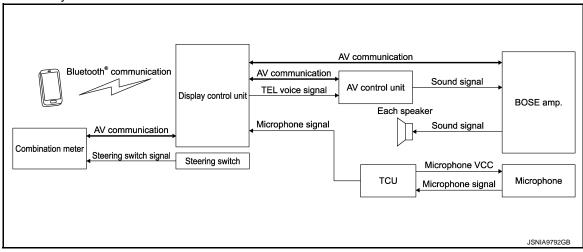
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SYSTEM DIAGRAM

Without Telematics System



With Telematics System



DESCRIPTION

- Refer to Owner's Manual for hands-free phone system operating instructions.
- For further information about Bluetooth[®] compliant profile, refer to AV-20, "Display Control Unit".
- Simply operating the steering switch without releasing hands from the steering wheel allows the driver to receive a phone call.
- When a Bluetooth[®] communication compliant phone is registered to the display control unit, hands-free phone communication can be performed. Five units of Bluetooth[®] communication devices including audio devices and cellular phones can be registered to the display control unit.
- The content of the memory (telephone book) of the cellular phone can be recorded in the display control
 unit.

When Receiving a Call

- When display control unit receives the voice of the other party from a cell phone via Bluetooth[®] communication, it transmits the TEL voice signal to AV control unit.
- When AV control unit transmits the TEL voice signal, it transmits the sound signal to BOSE amp.
- BOSE amp. transmits the sound signal received from AV control unit to each speaker.

When a Call Is Originated

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< SYSTEM DESCRIPTION >

- When display control unit receives the microphone signal from microphone, it transmits the sound signal to a
 cell phone via Bluetooth[®] communication. (without telematics system)
- When display control unit receives the microphone signal from microphone via TCU, it transmits the sound signal to a cell phone via Bluetooth[®] communication. (with telematics system)

HANDS-FREE PHONE INDICATOR

- When a cell phone that is connected with the display control unit via Bluetooth[®] communication receives a phone call, the incoming call is displayed on the information display in combination meter.
- When display control unit recognizes an incoming call from a cell phone via Bluetooth[®] communication, it transmits the meter display signal to combination meter via AV communication.
- When combination meter receives the meter display signal, it displays the incoming call of cell phone on information display.
- When an incoming call is received, the driver can operate the steering switch to answer the phone.
- When steering switch is operated, the combination meter receives the steering switch signal, and then combination meter transmits the steering switch signal to the display control unit via AV communication.
- When display control unit receives the steering switch signal, it activates the hands-free phone.

SMS INDICATOR

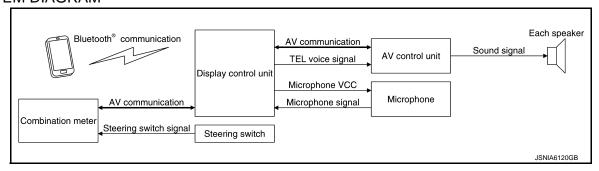
- When a cell phone that is connected with the display control unit via Bluetooth[®] communication receives an SMS, the incoming SMS is displayed on the information display located in combination meter.
- The display control unit transmits an SMS signal to the combination meter via AV communication when receiving SMS from a cellular phone via Bluetooth® communication.
- The combination meter indicates the reception of SMS on the information display when receiving an SMS signal.
- When an SMS is received, the SMS can be confirmed by operating the steering switch.
- When steering switch is operated, the combination meter receives the steering switch signal, and then combination meter transmits the steering switch signal to the display control unit via AV communication.
- When display control unit receives the steering switch signal, it transmits the SMS signal to combination meter via AV communication.
- When combination meter receives the SMS signal, it displays SMS on information display.

WITHOUT BOSE SYSTEM

WITHOUT BOSE SYSTEM: System Description

INFOID:0000000012795552

SYSTEM DIAGRAM



DESCRIPTION

- Refer to Owner's Manual for hands-free phone system operating instructions.
- For further information about Bluetooth[®] compliant profile, refer to AV-20, "Display Control Unit".
- Simply operating the steering switch without releasing hands from the steering wheel allows the driver to receive a phone call.
- When a Bluetooth[®] communication compliant phone is registered to the display control unit, hands-free phone communication can be performed. Five units of Bluetooth[®] communication devices including audio devices and cellular phones can be registered to the display control unit.
- The content of the memory (telephone book) of the cellular phone can be recorded in the display control
 unit.

When Receiving a Call

HANDS-FREE PHONE SYSTEM

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

- When display control unit receives the voice of the other party from a cell phone via Bluetooth[®] communication, it transmits the TEL voice signal to AV control unit.
- When AV control unit transmits the TEL voice signal, it received the sound signal to each speaker.

When a Call Is Originated

When display control unit receives the microphone signal from microphone, it transmits the sound signal to a cell phone via Bluetooth® communication.

HANDS-FREE PHONE INDICATOR

- When a cell phone that is connected with the display control unit via Bluetooth[®] communication receives a phone call, the incoming call is displayed on the information display in combination meter.
- When display control unit recognizes an incoming call from a cell phone via Bluetooth[®] communication, it transmits the meter display signal to combination meter via AV communication.
- When combination meter receives the meter display signal, it displays the incoming call of cell phone on information display.
- When an incoming call is received, the driver can operate the steering switch to answer the phone.
- When steering switch is operated, the combination meter receives the steering switch signal, and then combination meter transmits the steering switch signal to the display control unit via AV communication.
- When display control unit receives the steering switch signal, it activates the hands-free phone.

SMS INDICATOR

- When a cell phone that is connected with the display control unit via Bluetooth[®] communication receives an SMS, the incoming SMS is displayed on the information display located in combination meter.
- The display control unit transmits an SMS signal to the combination meter via AV communication when receiving SMS from a cellular phone via Bluetooth® communication.
- The combination meter indicates the reception of SMS on the information display when receiving an SMS signal.
- When an SMS is received, the SMS can be confirmed by operating the steering switch.
- When steering switch is operated, the combination meter receives the steering switch signal, and then combination meter transmits the steering switch signal to the display control unit via AV communication.
- When display control unit receives the steering switch signal, it transmits the SMS signal to combination meter via AV communication.
- When combination meter receives the SMS signal, it displays SMS on information display.

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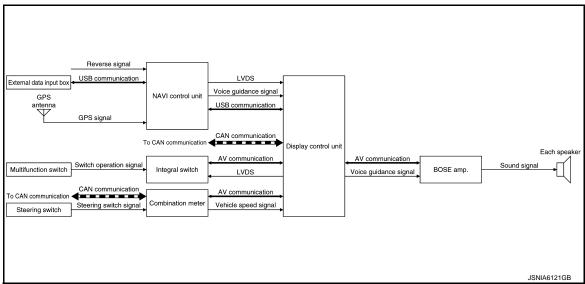
Revision: November 2016 AV-73 2016 Q50

NAVIGATION SYSTEM

System Description

INFOID:0000000012795553

SYSTEM DIAGRAM



Display Control Unit Input Signal (CAN Communication)

Transmit unit	Signal name	
Combination meter	Parking brake switch signal	
ECM (2.0L turbo gasoline engine)	Shift position signal (Reverse signal)	
TCM (VR30DDTT)	— Still position signal (Neverse signal)	

DESCRIPTION

- Refer to Owner's Manual for navigation system operating instructions.
- Navigation system can be operated with the integral switch, multifunction switch, and display control unit.
- Guidance voice is output from the NAVI control unit, via display control unit and BOSE amp., to the front speaker.
- NAVI control unit calculates the vehicle location based on the signals from GYRO (angle speed sensor), vehicle sensor, and GPS satellite, as well as the map data from map SD card. It is displayed on display of the display control unit.

POSITION DETECTION PRINCIPLE

The navigation system periodically calculates the vehicle's current position according to the following three signals:

- Travel distance of the vehicle as determined by the vehicle speed sensor.
- Turning angle of the vehicle as determined by the gyroscope (angular velocity sensor).
- Direction of vehicle travel as determined by the GPS antenna (GPS information).

The current position of the vehicle is then identified by comparing the calculated vehicle position with map data read from the map SD card (map-matching), and indicated on the screen as a vehicle mark. More accurate data is judged and used by comparing vehicle position detection results found by the GPS with the result by map-matching.

NAVIGATION SYSTEM

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

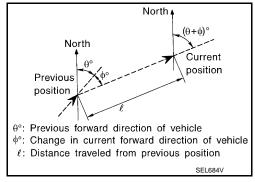
The current vehicle position will be calculated by detecting the distance the vehicle moved from the previous calculation point and its direction.

Travel distance

Travel distance calculations are based on the vehicle speed sensor input signal. Therefore, the calculation may become incorrect as the tires wear down. To prevent this, an automatic distance correction function has been adopted.

Travel direction

Change in the travel direction of the vehicle is calculated by a gyroscope (angular velocity sensor) and a GPS antenna (GPS information). They have both advantages and disadvantages.



Туре	Advantage	Disadvantage
Gyroscope (angular velocity sensor)	Can detect the vehicle's turning angle quite accurately.	Direction errors may accumulate when vehicle is driven for long distances without stopping.
GPS antenna (GPS information)	Can detect the vehicle's travel direction (North/South/East/West).	Correct direction cannot be detected when vehicle speed is low.

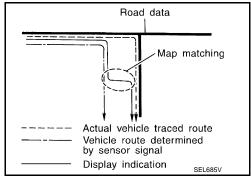
More accurate traveling direction is detected because priorities are set for the signals from these two devices according to the situation.

MAP-MATCHING

Map-matching compares a current location detected by the method in the "Location Detection Principle" with a road map data from map SD card.

NOTE:

The road map data is based on data stored in the map SD card.

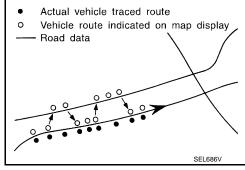


The vehicle position may not be corrected under the following circumstances and after driving for a certain time when GPS information is difficult to receive.

 In map-matching, alternative routes to reach the destination will be shown and prioritized, after the road on which the vehicle is currently driven has been judged and the vehicle mark has been repositioned.

Alternative routes will be shown in different order of priority, and the incorrect road can be avoided if there is an error in distance and/or direction.

They are of the same priority if two roads are running in parallel. Therefore, the vehicle mark may appear on either of them alternately, depending on maneuvering of the steering wheel and configuration of the road.



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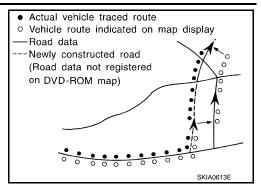
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< SYSTEM DESCRIPTION >

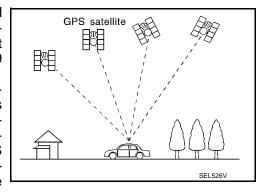
- Map-matching does not function correctly when a road on which the vehicle is driving is new and not recorded in the map SD card, or when road pattern stored in the map data and the actual road pattern are different due to repair.
- The map-matching function may find another road and position the vehicle mark on it when driving on a road not present in the map. Then, the vehicle mark may change to it when 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 read from the map SD card 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.

NAVIGATION INDICATOR

- When the navigation system is ON, the display control unit transmits a meter display signal to the combination meter via AV communication.
- The combination meter displays a navigation status on the combination meter (in the information display) when receiving a navigation indicator signal.

COMPASS

- NAVI control unit acquires direction information from GPS antenna, and transmits it to the display control unit via USB communication.
- Display control unit transmits direction information which is acquired from NAVI control unit to combination meter via AV communication.
- When direction information is acquired, combination meter displays it on information display.

[INFINITI INTOUCH]

ACTIVE NOISE CANCELLATION WITH BOSE SYSTEM

WITH BOSE SYSTEM: System Description

INFOID:0000000013498215

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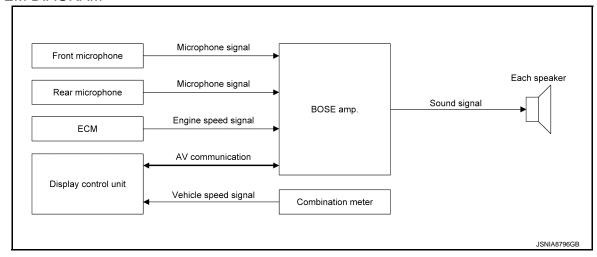
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SYSTEM DIAGRAM

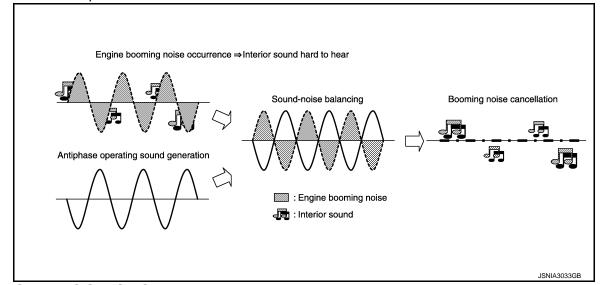


DESCRIPTION

- The active noise cancellation system outputs an antiphase sound from the speakers (front door woofer, rear door speaker, and rear woofer) against unpleasant engine booming noise (2nd and/or 4th engine rev at 1,000 - 5,000 rpm) and reduce sound pressure level by the interference with engine booming noise.
- The BOSE amp. receives an engine speed signal from ECM and receives microphone signals from the front and rear microphone.
- 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.

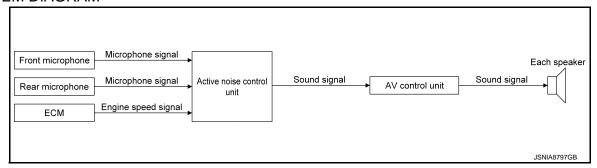


WITHOUT BOSE SYSTEM

WITHOUT BOSE SYSTEM: System Description

INFOID:0000000013498216

SYSTEM DIAGRAM

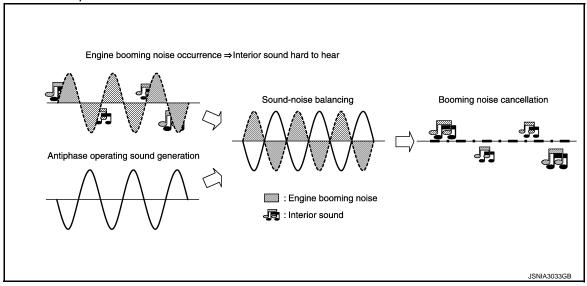


DESCRIPTION

- The active noise cancellation system outputs an antiphase sound from the speakers (front door speaker and rear door speaker) against unpleasant engine booming noise (2nd and/or 4th engine rev at 1,000 - 5,000 rpm) and reduce sound pressure level by the interference with engine booming noise.
- The active noise control unit receives an engine speed signal from ECM and receives microphone signals from the front and rear microphone.
- Based on signals detected by the front and rear microphones, the active noise control unit 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 active noise control unit. Then, the AV control unit mixes the antiphase sound with a sound signal received from the active noise 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.



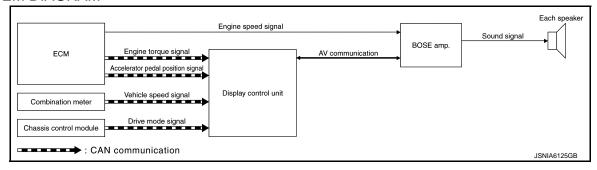
[INFINITI INTOUCH]

ACTIVE SOUND ENHANCEMENT WITH BOSE SYSTEM

WITH BOSE SYSTEM: System Description

INFOID:0000000013498217

SYSTEM DIAGRAM

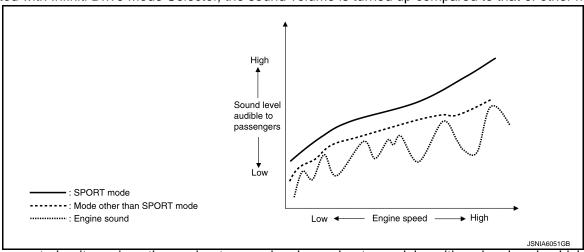


Display Control Unit Input Signal (CAN Communication)

Transmit unit	Signal name
ECM	Engine torque signal
ECIVI	Accelerator pedal position signal
Combination meter	Vehicle speed signal
Chassis control module	Drive mode signal

DESCRIPTION

- During driving, the active noise enhancement system improves the quality of engine sound heard in the vehicle by producing a sound via the speakers according to engine speeds and drive mode.
- The active noise enhancement system uses two different types of sound volume. When SPORTS mode is selected with Infiniti Drive Mode Selector, the sound volume is turned up compared to that of other modes.



- Display control unit receives the engine torque signal, accelerator pedal position signal and vehicle speed signal via CAN communication, and transmits them to BOSE amp. via AV communication.
- BOSE amp. calculates the frequency of sound adding to engine sound, sound quality, and sound volume from engine speed signal, engine torque signal, accelerator pedal position signal, and vehicle speed signal, and transmits the sound signal to each speaker. NOTE:
 - BOSE amp. mixes the sound signal received from AV control unit with the engine sound that is generated in BOSE amp., and transmits the sound signal to each speaker.
 - BOSE amp. judges two types of sound tuning mode from drive mode signal.

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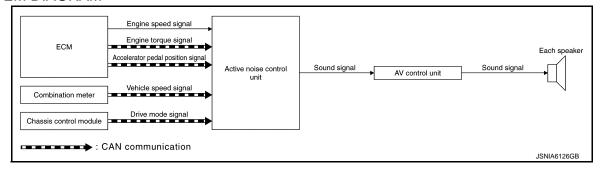
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WITHOUT BOSE SYSTEM: System Description

INFOID:0000000013498218

SYSTEM DIAGRAM

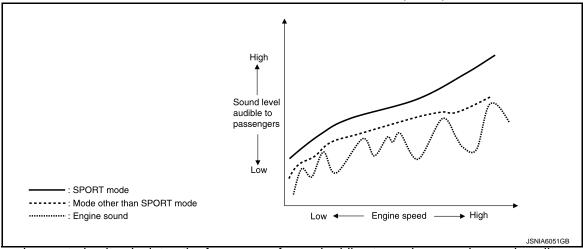


Display Control Unit Input Signal (CAN Communication)

Transmit unit	Signal name
ECM	Engine torque signal
ECIVI	Accelerator pedal position signal
Combination meter	Vehicle speed signal
Chassis control module	Drive mode signal

DESCRIPTION

- During driving, the active noise enhancement system improves the quality of engine sound heard in the vehicle by producing a sound via the speakers according to engine speeds and drive mode.
- The active noise enhancement system uses two different types of sound volume. When SPORTS mode is selected with Infiniti Drive Mode Selector, the sound volume is turned up compared to that of other modes.



- Active noise control unit calculates the frequency of sound adding to engine sound, sound quality and sound
 volume from engine speed signal, engine torque signal, accelerator pedal position signal, and vehicle speed
 signal, and transmits the sound signal to AV control unit.
- When AV control unit receives the sound signal from active noise control unit, it transmits the sound signal to each speaker.

NOTE:

- AV control unit mixes the sound signal received from active noise control unit with the sound from audio, etc., and transmits the sound signal to each speaker.
- Active noise control unit judges two types of sound tuning mode from drive mode signal.

[INFINITI INTOUCH]

HANDLING PRECAUTION

Display INFOID:0000000012795554

When the compartment temperature is low, the display images may look slower because the LCD response
is deteriorated. The system will recover its normal operation when the cabin temperature increases to an
appropriate level.

- When the compartment temperature is low [0°C (32°F) or less], the display images may look slower. It is characteristic of the LCD monitor and should not be considered to be a malfunction. When the temperature is at the operating temperature [0°C (32°F) to 50°C (122°F)], the display returns to normal.
- There may be small dark or bright dots in the screen or remaining display content may be found (image lag). These are inherent symptoms to any LCD monitor and should not be considered to be a malfunction.
- The image may look bright or dark when viewed obliquely from the rear. It is inherent to any LCD monitor and should not be considered to be a malfunction.
- Do not apply pressure on the LCD monitor. Doing so may cause irregularities in the screen image or render it inoperative.
- Do not use hard cloth, organic solvent (alcohol, benzine, and thinner), or chemical wipe to clean the LCD monitor. Doing so may affect the panel surface. When cleaning the LCD monitor, always wipe it with a soft cloth after shutting off the power. For severe contamination, use a soft cloth dampened with mild detergent (no droplets can be present).

Audio (INFOID:0000000012795555

- When an MP3, WMA, or AAC disc is replayed, it may take some time to start the playback after the disc is inserted, because the contents of the disc files must be analyzed.
- The extensions for MP3, WMA, and AAC files are ".MP3", ".WMA", ".mp3", ".wma", and ".aac". Any file with a different extension or no extension cannot be played back.
- If trying to play a music CD (CD-DA) containing MP3, WMA, or AAC file, MP3, WMA, or AAC file is not played.
- The compatibility of a CD–R depends on the combination of the writing software/hardware and the writing
 rate. The disc has digital pulse signals written on it. If the specifications for writing depth and width (area) are
 not compatible, these signals may not be played back correctly or the sounds may be lost or skipped.
- The file recorded with high bit rate may have sound skipping.
- The playback order of MP3, WMA, or AAC files may differ from the intended order because the writing software could change the folder and file positions when writing data to a CD-R/CD-RW disc.
- For an MP3 file, the folder name and file name can be displayed as the title on the condition that each name string consists of up to 16 alphanumeric letters (except for the extension). Any MP3 file with a name containing other letters or that is longer than the maximum length cannot be displayed correctly.
- Some MP3, WMA, or AAC making software, text information editing software, writing software, or software
 configurations may create files and discs in a format different from the proper specifications. In such a case,
 the text information display or the playback function may not be available.
- A disc for which no session close or disc close process has been finished may not be played back.
- Some files may have incorrect playback time displays and therefore a part of the music cannot be played back.
- 8 cm disc cannot be used.
- When playing back a Bluetooth[®] audio data, the sound may be interrupted for a moment. This is due to data communication and should not be considered to be a malfunction. After the data communication finishes, the playback will restart normally.
- If incoming call takes place during Bluetooth[®] audio playback, the screen changes to the relevant mode and the audio playback is interrupted.
- Sound skipping may occur depending on the location where the Bluetooth audio device is installed.
- If any operation for traffic information reception is performed during Bluetooth[®] audio playback, the audio playback is interrupted.
- Music data stored in a Bluetooth[®] audio device at low bit rate has poor sound quality.
- Radio reception may decrease in performance during charge.

NOTE:

*: Bit rate means how many bits of data are processed or transmitted per the unit time.

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HANDLING PRECAUTION

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

iPod®

- If a headphone is connected to the iPod[®], the iPod[®]may not be controlled.
- Some iPod[®] may not be compliant with connection. It is necessary to check compliant models of iPod[®].
- If a USB extension cable is used for iPod[®] connection, iPod[®] may not be recognized or sound skipping may occur in playback.
- In playing back iPod[®] audio, if the EQ function (equalizer function) of the iPod[®] is ON, sound may be distorted.
- If the number of music in one category is increased to a large number, response may be poor. If the number
 of music is large and shuffle is ON, operation of the iPod[®] itself may be slower.

RESTRICTIONS ON iPod®

The following symptoms may occur, but the functions are not compliant and they should not be considered to be a malfunction.

- When a Podcast divided into chapters is played back with iPod nano 3G, the play time may be displayed incorrectly.
- The number of Audiobook is not displayed normally. When iPod[®] is disconnected and reset, it is displayed.
- When jacket photos are played with iPod nano 3G and iPod Classic, iPod®may be frozen or reset.

USB Connection

If a USB-HUB or USB extension cable is used when a USB is connected, USB is not recognized.

SD Card INFOID:000000012795555

To remove the SD card, wait for 15 seconds or more after turning the ignition switch OFF.

< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

DIAGNOSIS SYSTEM (DISPLAY CONTROL UNIT)

Description INFOID:000000012795559

- The display control unit diagnosis function starts up with multifunction switch operation and the display 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

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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 display control unit, connections between system components. 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	Display control unit diagnosis.Diagnoses the connections across system components.

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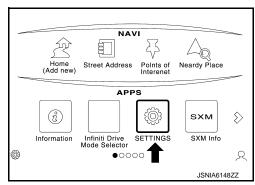
[INFINITI INTOUCH]

	Mode	Description	
	Display Diagnosis	The following check functions are available: • Color tone check by color bar display, white display and black display • Light and shade check by gray scale display • Touch panel check • Sensor sensitivity settings	
Vehicle Signals		Diagnosis of signals can be performed .	
	Speaker Test	The connection of a speaker can be confirmed by test tone.	
	Navigation*	The reception status of GPS can be confirmed. Display On/Off of the simulation menu of navigation.	
	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.	
AV COMM Diagnosis Clock Setting*		The communication condition of each unit of Infiniti InTouch can be monitored.	
		The date and time information can be adjusted.	
Committation	Camera Control Unit	The signal connected to camera control unit can be checked and the guiding line position that overlaps rear view camera image can be adjusted.	
Adjustment	SXM	Display the information related to satellite radio.	
	Delete Unit Connection Log	Erase the connection history of unit and error history.	
	Reset Settings	Initializes the each data.	
Versio	Version Information	Version information of the following items is displayed. • Display control unit • NAVI control unit • AV control unit • BOSE amp. • Integral switch • Combination meter • Around view monitor control unit	
	Program Update	Version of the display control unit can be update.	
	Switch Information	Display each switch information.	
	ANC/ASC	Display the information related to ANC and ASC.	
	Hands-free Phone	The received volume adjustment of hands-free phone and microphone speaker check can be performed.	

^{*:} Only models with navigation system

METHOD OF STARTING

- 1. Start the engine.
- 2. Turn the audio system OFF.
- 3. Touch the "SETTINGS" icon and display a settings menu screen.



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[INFINITI INTOUCH]

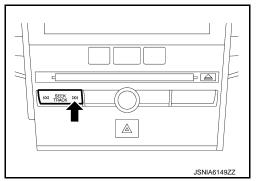
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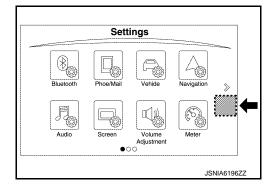
4. Press the "Seek/Track Up" switch at least 3 times. (Within 15 seconds after the settings menu screen display.)

NOTE:

When press the "Seek/Track Up" switch more than 4 times, a self-diagnosis mode is not started. press the "MENU" switch again.



5. Touch the screen (area of the figure) for 3 seconds.



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

NOTE:

When a diagnostic screen is not displayed, press the "MENU" switch. And then, restart from the procedure of Step 3.

SELF-DIAGNOSIS MODE

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

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

NOTE:

Control Unit (display control unit) and BOSE Amp. are displayed in red.

- Replace display control unit if "Self-Diagnosis did not run because of a control unit malfunction" is indicated. The symptom is display control unit internal error. Refer to AV-407, "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.

Detection Range of Self-diagnosis Mode

• The self-diagnosis mode allows the technician to diagnose the connection in the communication line between display control unit and each unit and the internal operation of the display control unit.

Revision: November 2016 AV-85 2016 Q50

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< SYSTEM DESCRIPTION >

[INFINITI INTOUCH]

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

SELF-DIAGNOSIS RESULTS

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

Only Unit Part Is Displayed In Red.

Screen switch	Description	Possible malfunction location / Action to take
DCU	Malfunction is detected in display control unit power supply and ground circuits.	Check display control unit power supply and ground circuits. Refer to AV-367, "DISPLAY CONTROL UNIT: Diagnosis Procedure". When detecting no malfunction in those components, replace display control unit. Refer to AV-407, "Removal and Installation".
Audio Head Unit	Malfunction is detected in AV control unit power supply and ground circuits.	Check AV control unit power supply and ground circuits. Refer to AV-368, "AV CONTROL UNIT: Diagnosis Procedure". When detecting no malfunction in those components, replace AV control unit. Refer to AV-408, "Removal and Installation".
Navigation unit	Malfunction is detected in NAVI control unit power supply and ground circuits.	Check NAVI control unit power supply and ground circuits. Refer to AV-369, "NAVI CONTROL UNIT: Diagnosis Procedure". When detecting no malfunction in those components, replace NAVI control unit. Refer to AV-409, "Removal and Installation".
BOSE Amp.	 When either one of the following items are detected: Sound signal circuits between BOSE amp. and each speaker are malfunctioning. Sound signal circuits between BOSE amp. and 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 <u>AV-413</u>. "Removal and Installation".

A Connecting Cable Between Units Is Displayed In Yellow.

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Area with yellow connection lines	Description	Possible malfunction location / Action to take
DCU ⇔ Audio Head Unit	When either one of the following items are detected: AV control unit power supply and ground circuits are malfunctioning. AV communication circuits between display control unit and AV control unit are malfunctioning. USB communication circuits between display control unit and AV control unit are malfunctioning.	AV control unit power supply and ground circuits. Refer to AV-368, "AV CONTROL UNIT: Diagnosis Procedure". AV communication circuits between display control unit and AV control unit are malfunctioning. USB communication circuits between display control unit and AV control unit are malfunctioning.
DCU ⇔ Second Display	When either one of the following items are detected: Integral switch power supply and ground circuits are malfunctioning. AV communication circuits between display control unit and integral switch are malfunctioning.	Integral switch power supply and ground circuits. Refer to AV-372, "INTEGRAL SWITCH: Diagnosis Procedure". AV communication circuits between display control unit and integral switch are malfunctioning.
DCU ⇔ BOSE Amp	When either one of the following items are detected: BOSE amp. power supply and ground circuits are malfunctioning. AV communication circuits between display control unit and BOSE amp. are malfunctioning.	BOSE amp. power supply and ground circuits. Refer to AV-371, "BOSE AMP.: Diagnosis Procedure". AV communication circuits between display control unit and BOSE amp. are malfunctioning.
DCU ⇔ AVM	When either one of the following items are detected: Around view monitor control unit power supply and ground circuits are malfunctioning. AV communication circuits between display control unit and around view monitor control unit are malfunctioning.	Around view monitor control unit power supply and ground circuits. Refer to AV-599, "AROUND VIEW MONITOR CONTROL UNIT: Diagnosis Procedure". AV communication circuits between display control unit and around view monitor control unit are malfunctioning.
DCU ⇔ Meter	When either one of the following items are detected: Combination meter power supply and ground circuits are malfunctioning. AV communication circuits between display control unit and combination meter are malfunctioning.	Combination meter power supply and ground circuits. Refer to MWI-120, "COMBINATION METER: Diagnosis Procedure". AV communication circuits between display control unit and combination meter are malfunctioning.
DCU ⇔ Rear Camera	Malfunction is detected in rear view camera circuit between display control unit and rear view camera.	Rear view camera power supply and ground circuits. Refer to AV-332, "Diagnosis Procedure".
Navigation unit ⇔ GPS Antenna	GPS antenna connection malfunctions detected.	GPS antenna Refer to AV-317, "Diagnosis Procedure".
Audio Head Unit ⇔ XM Antenna	Satellite antenna connection malfunctions detected.	Satellite antenna Refer to AV-321, "Diagnosis Procedure".
Audio Head Unit ⇔ Radio Antenna	Window antenna connection malfunctions detected.	Window antenna Refer to <u>AV-336</u> , " <u>Diagnosis Procedure</u> ".
Second Display ⇔ IT-Commander	Multifunction switch connection malfunctions detected.	Multifunction switch Refer to AV-334, "Diagnosis Procedure".
DCU ⇔ Navigation unit	USB communication circuits between display control unit and NAVI control unit are malfunctioning.	USB communication circuits between display control unit and NAVI control unit are malfunctioning. Refer to AV-327, "Diagnosis Procedure".
DCU ⇔ TCU	USB communication circuits between display control unit and TCU are malfunctioning.	USB communication circuits between display control unit and TCU are malfunctioning. Refer to AV-328, "Diagnosis Procedure".

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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. Touch the "Back" to return to the initial Confirmation/Adjustment Mode screen.

Display Diagnosis

Confirmation of the display control unit screen and integral switch screen.

Ite	em	Description	
Display Settings	Color Spectrum Bar	Display 8 colors of following bars. White Yellow Cyan (Close to light blue) Green Magenta (Close to purplish red) Red Blue Black Gray Scale	
	Gradation Bar	Display 64 gradation gray-scale image to a screen.	
	White Display	Display white screen.	
	Black Display	Display black screen.	
Touch Panel		 The function can check the presence of a "+" indication and deviation from where it should be while touching the touch panel. Display coordinates and gesture operation name (Drag, Tap, Double Tap, Spread, etc.) of the screen which touched. 	
Sensor Sensitivity Settings		Display a current touch panel sensor sensitivity set value. Can change the touch panel sensor sensitivity set value with 1 (Low) - 5 (high) phases. NOTE: The set value is the same as display control unit screen and integral switch screen.	

Vehicle Signals

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

Display control unit

Diagnosis item	Display	Vehicle status	Remarks	
Vahiala Canad	ON	Vehicle speed > 0 km/h (0 MPH)	Changes in indication may be delayed. This is norma	
Vehicle Speed	OFF	Vehicle speed = 0 km/h (0 MPH)		
Parking Brake Signal	ON	Parking brake is applied.		
Faiking brake Signal	OFF	Parking brake is released.		
	ON	Block the light beam from the auto light optical sensor when the light switch is ON.		
Light Signal OFF	OFF	 Either of the following conditions Lighting switch OFF. Expose the auto light optical sensor to light when the light switch is ON. 	_	
Ignition Signal	ON	Ignition switch ON.	_	
Igrillori Sigriai	OFF	Ignition switch in ACC position.	_	
Reverse Signal	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 nothic	

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NAVI control unit			
Diagnosis item	Display	Vehicle status	Remarks
Vehicle Speed	ON	Vehicle speed > 0 km/h (0 MPH)	Changes in indication may be delayed. This is normal.
verlicie opeed	OFF	Vehicle speed = 0 km/h (0 MPH)	Changes in indication may be delayed. This is normal.
Ignition Signal ON OFF	ON	Ignition switch ON.	
	OFF	Ignition switch in ACC position.	_
Reverse Signal	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.	Onanges in indication may be delayed. This is normal.

NOTE:

Only models with navigation system.

Speaker Test

Select "Speaker Test" to display the speaker diagnosis screen. Touch "Start" to generate a test tone in a speaker. Touch "Next" to generate a test tone in the next speaker. Touch "End" to stop the test tones.

Navigation

Item	Description	
Sensor Information	The reception status of GPS can be confirmed.	
Route Simulation	Set the display ON/OFF of the "simulation" menu of the navigation.	

NOTE:

Only models with navigation system.

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.

- Place of the error occurrence is represented by the longitude and latitude 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 up-and-down manner.

Count up method

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

Display type of occur- rence frequency	Error history display item	
Count up method	CAN communication line, control unit (CAN), AV communication line, control unit (AV)	

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	Applicable DTC	Reference
TACHO signal failure	B1F01	AV-281
Compensat. mic1 IN: Open	B1F0B	AV-289
Compensat. mic1 IN: Short	B1F0C	AV-289
Compensat. mic1 IN: Short to battery	B1F0D	AV-289

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Error item	Applicable DTC	Reference
Compensat. mic1 IN: Short to ground	B1F0E	AV-289
CAN COMM CIRCUIT	U1000	AV-307
CONTROL UNIT (CAN)	U1010	AV-309
Control unit internal error	U121F	AV-311
Mismatched configuration data stored	U1223	AV-312
Amplifier temperature error	U1231	AV-313
Steer. Angle Sensor calibration	U1232	AV-314
Navi unit internal error	U1233	AV-315
Audio unit internal error	U1234	AV-316
Audio unit connection error	U1249	<u>AV-318</u>
GPS Antenna error	U1244	AV-317
Bose AMP connection error	U124E	AV-320
XM Antenna connection error : open	114050	A) / 004
XM Antenna connection error : short	U1258	<u>AV-321</u>
2nd Display connection error	U1259	AV-323
AVM connection error	U125B	AV-325
Navi unit connection error	U125D	AV-327
TCU connection error	U1266	AV-328
Cluster connection error	U1267	AV-329
Confirm user connection unit	U12B7	AV-331
Rear Camera connection error	U12B8	AV-332
IT Comander connection error	U12BA	AV-334
Radio Antenna error : open		
Radio Antenna error : short	U12BE	<u>AV-336</u>
AV COMM CIRCUIT	U1300	AV-338
CONTROL UNIT (AV)	U1310	AV-340
FL-DOOR speaker OUT: open		
FL-DOOR speaker OUT: short		
FL-DOOR speaker OUT: short to ground	U1600	<u>AV-341</u>
FL-DOOR speaker OUT: short to battery		
FL-DOOR woofer OUT: open		
FL-DOOR woofer OUT: short		
FL-DOOR woofer OUT: short to ground	U1601	<u>AV-344</u>
FL-DOOR woofer OUT: short to battery		
FL-DOOR squawker OUT: open		
FL-DOOR squawker OUT: short	U1602 <u>A</u>	
FL-DOOR squawker OUT: short to ground		
FL-DOOR squawker OUT: short to battery		
FL-PILLAR tweeter OUT: open		
FL-PILLAR tweeter OUT: short		
FL-PILLAR tweeter OUT: short to ground	U1603	<u>AV-350</u>
FL-PILLAR tweeter OUT: short to battery		

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Error item	Applicable DTC	Reference
FR-DOOR speaker OUT: open		
FR-DOOR speaker OUT: short	114600	AV/ 244
FR-DOOR speaker OUT: short to ground	U1608	<u>AV-341</u>
FR-DOOR speaker OUT: short to battery		
FR-DOOR woofer OUT: open		
FR-DOOR woofer OUT: short	114600	AV/ 244
FR-DOOR woofer OUT: short to ground	U1609	<u>AV-344</u>
FR-DOOR woofer OUT: short to battery		
FR-DOOR squawker OUT: open		
FR-DOOR squawker OUT: short	11400 A	AV / O 47
FR-DOOR squawker OUT: short to ground	U160A	<u>AV-347</u>
FR-DOOR squawker OUT: short to battery		
FR-PILLAR tweeter OUT: open		
FR-PILLAR tweeter OUT: short		
FR-PILLAR tweeter OUT: short to ground	U160B	<u>AV-350</u>
FR-PILLAR tweeter OUT: short to battery		
F-INST L-squawker OUT: open		
F-INST L-squawker OUT: short		41/2
F-INST L-squawker OUT: short to ground	U1626	<u>AV-353</u>
F-INST L-squawker OUT: short to battery		
F-INST C-squawker OUT: open		
F-INST C-squawker OUT: short		AV-356
F-INST C-squawker OUT: short to ground	U162A	
F-INST C-squawker OUT: short to battery		
F-INST R-squawker OUT: open		
F-INST R-squawker OUT: short		<u>AV-353</u>
F-INST R-squawker OUT: short to ground	U162E	
F-INST R-squawker OUT: short to battery		
RL-DOOR speaker OUT: open		
RL-DOOR speaker OUT: short		41/050
RL-DOOR speaker OUT: short to ground	U1708	<u>AV-358</u>
RL-DOOR speaker OUT: short		
RR-DOOR speaker OUT: open		
RR-DOOR speaker OUT: short	111710	A) / 0.50
RR-DOOR speaker OUT: short to ground	U1710	<u>AV-358</u>
RR-DOOR speaker OUT: short to battery		
R-PSHELF L-speaker OUT: open		
R-PSHELF L-speaker OUT: short	111700	A) / 000
R-PSHELF L-speaker OUT: short to ground	U1722	<u>AV-362</u>
R-PSHELF L-speaker OUT: short to battery		
R-PSHELF C-woofer OUT: open		
R-PSHELF C-woofer OUT: short		*****
R-PSHELF C-woofer OUT: short to ground	U1725	<u>AV-365</u>
R-PSHELF C-woofer OUT: short to battery		

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Error item	Applicable DTC	Reference
R-PSHELF R-speaker OUT: open		
R-PSHELF R-speaker OUT: short	U172A	AV-362
R-PSHELF R-speaker OUT: short to ground	OTIZA	<u>AV-302</u>
R-PSHELF R-speaker OUT: short to battery		

AV COMM Diagnosis

AV COMM Monitor

- Displays the communication status between display 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)
CMF Send Switch	OK / UNKW	OK / 0 - 39 / —
CMF Receive 2ndDisp	OK / UNKW	OK / 0 - 39 / —
CMF Receive Bose AMP	OK / UNKW	OK / 0 - 39 / —
CMF Receive AVM	OK / UNKW	OK / 0 - 39 / —
CMF Receive Meter	OK / UNKW	OK / 0 - 39 / —
CMF Receive Audio	OK / UNKW	OK / 0 - 39 / —

Clock Setting

The date and time information can be adjusted.

NOTE:

Only models with navigation system.

Camera Cont.

Item	Description
Adjust Guide Line of Rear View Cam	The guiding lines in the rear view monitor can be adjusted.
Check/Change Configuration	Displays the current configuration data. NOTE: Refer to the following list for the items of the configuration adjustment function.
Reset Configuration	Initializes the camera system configuration.
Camera System Type	Sets the type of camera that is connected.

Configuration list

Cotting item	Setting (D	Setting (Default value)		
Setting item	Direct adaptive steering models	Vehicle speed sensitive P/S models		
Predictive Course Lines	With SBW	Without SBW		
Rear Coeff. K	1.37847	1.37847		
Rear Coeff. F	0.0394	0.0394		
Rear Coeff. P1	-0.24463	-0.24463		
Rear Coeff. P2	0.07005	0.07005		
Rear Coeff. C1	-0.00608	-0.00608		
Rear Coeff. C2	-0.00001	-0.00001		
Rear Coeff. D1	130.6	130.6		
Rear Coeff. D2	-35	-35		
Car Width	1822.9	1822.9		

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Catting items	Setting (D	Setting (Default value)	
Setting item	Direct adaptive steering models	Vehicle speed sensitive P/S models	
Rear Offset	3835.175	3835.175	
Rear Height	581.589	581.589	
Rear L/R Angle	0	0	
Rear Up/Dn Angle	0	0	
Rear Roll Angle	0	0	
Bumper Rear Dist.	0	0	
Bumper Rear Ax Dist	0	0	
Max. Steering Angle	31.56	31.56	
Min. Turning Radius	1	1.47	
Wheelbase	2850	2850	
Total Length	4792	4792	
Steering Gear Ratio	0.032	0.047	
Tot.Width With Mirrors	0	0	

SMX

XM Mode Diagnosis

Item	Description	
Show XM Diagnosis	Display adjustment items to test satellite radio function.	
External Connection Mode	Set in external diagnostic mode.	

Delete Unit Connection Log

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

Reset Settings

Item	Description	
Reset User Data	Initializes the display control unit, NAVI control unit and AV control unit memory.	
Reset Configuration	Initializes the configuration data.	

Version Information

Version information of the each control unit and switch is displayed.

Program Update

Version of the display control unit can be update.

Switch Information

Steering switch, multifunction switch and integral switch information can be checked.

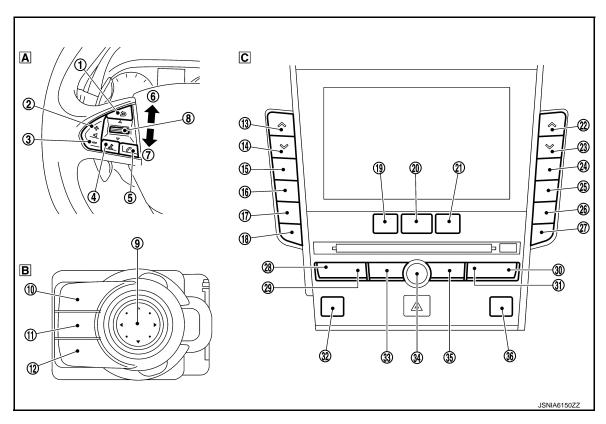
Switch name and ID are displayed when press each switch.

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A Steering switch

B Multifunction switch

C Integral switch

No.	Display name	Switch position
1	Source	
2	VOL UP/Right	
3	VOL DOWN/Left	
4	Voice Recognition Engine:	Steering switch
(5)	Phone	Steering Switch
6	MENU UP	
7	MENU DOWN	
8	Enter	
9	OK	
10	MAP	Multifunction switch
11)	Back	mataration switch
12	Not displayed	

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No.	Display name	Switch position
13	Temperature	
14)	Temperature	
15)	Auto	
16	Wind Speed +	
17)	Wind Speed –	
18	MODE	
19	Audio	
20	Menu	
21)	Climate	
22	Temperature	
23	Temperature	
24)	Recirculation	
25)	Front Defrost	Integral switch
26	Rear Defrost	
27	OFF	
28	ж	
29	₩	
30	TUNE/CH/HOLDER>	
31)	<tune ch="" holder<="" td=""><td></td></tune>	
32	Seat Heater (Left Seat)	
33	Radio	
34)	Not displayed	
35	DISC/AUX	
36	Seat Heater (Right Seat)	

ANC/ASC

Item		Description
ANC/ASC Diagnosis	Show Settings	Following items can be confirmed. Part number Config result Active noise cancellation system ON/OFF status Active sound enhancement system ON/OFF status
ANO/AGO Diagnosis	Connection Diagnosis	Display a state of wiring connected with in BOSE amp.
	Active Test	Active noise cancellation system function can be confirmed by test tone.
	Version	Active noise cancellation system and active sound enhancement system function ON/OFF can be set.

Hands-Free Phone

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

Item	Description	
HF Vol. Adjustment	The reception volume can be set in three steps: "Low", "Standard" and "High".	

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Item	Description	
Voice Microphone Test	The microphone audio can be directly connected to the speakers to perform a microphone test.	
Onload model ID	Displays the on board unit ID.	

CONSULT Function

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APPLICATION ITEMS

CONSULT performs the following functions via the communication with the display control unit

Diagnosis mode	Description		
Self Diagnostic Result	Performs a diagnosis on the display 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 display control unit can be performed.		
Work Support	Steering angle sensor can be adjusted.		
ECU Identification	The part number of display control unit can be checked.		
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing display 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 display control unit to each unit as well as the error counter.
	AUDIO	Displays the display control unit communication status and the error counter.

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.
- Refer to AV-107, "DTC Index".

Freeze Frame Data (FFD)

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

Item name	Display content
ODO/TRIP METER (km)	Total driving distance (odometer value) upon DTC detection is displayed.
TOTAL DISTANCE (km)	Total unving distance (odometer value) upon DTO detection is displayed.

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.

- Displays the status of the following vehicle signals inputted into the display 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 SED 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.
- ND SIG	Off	Parking brake is released.	

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Display Item Display Vehicle status		Remarks	
	On	Block the light beam from the auto light optical sensor when the light switch is ON.	
ILLUM SIG Off		Either of the following conditions Lighting switch OFF. Expose the auto light optical sensor to light when the light switch is ON.	
IGN SIG	On	Ignition switch ON.	
IGIV 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.	normal.

WORK SUPPORT

Adjusts the neutral position of the steering angle sensor.

CAUTION:

For vehicles with VDC, adjust the steering angle sensor neutral position on the ABS actuator control unit side. Refer to BRC-91, "Description".

Item	Description
ST ANGLE SENSOR ADJUSTMENT	NOTE: This item is displayed, but not used.

ECU IDENTIFICATION

The part number of display control unit is displayed.

CONFIGURATION

Configuration has three functions as follows.

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

CAUTION:

- When replacing display control unit, you must perform "Read / Write Configuration" or "Manual Configuration" with CONSULT.
- Complete the procedure of "Read / Write Configuration" or "Manual Configuration" in order.
- If you set incorrect "Read / Write Configuration" or "Manual Configuration", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.

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AV

DIAGNOSIS SYSTEM (ACTIVE NOISE CONTROL UNIT)

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DIAGNOSIS SYSTEM (ACTIVE NOISE CONTROL UNIT)

CONSULT Function

INFOID:0000000013498127

APPLICATION ITEMS

CONSULT performs the following functions via the communication with the active noise control unit.

Diagnosis mode	Description
Self Diagnostic Result	Performs a diagnosis on the active noise control unit and a connection diagnosis for the communication circuit of the active noise cancellation system/active noise enhancement system, and displays the current and past malfunctions collectively.
Data Monitor	The diagnosis of vehicle signal that is input to the active noise control unit can be performed.
Work support	Can set active noise cancellation system and active noise enhancement system.
Active Test	Transmits a drive signal to check the operation.
ECU Identification	The part number of active noise control unit can be checked.

SELF DIAGNOSTIC RESULT

Refer to AV-128, "DTC Index".

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.

Monitored item	Unit	Description
ANC OPERATING CONDITION	On/Off	Indicates active noise cancellation system operating condition. On: Active noise cancellation system is operating Off: Active noise cancellation system is not operate
ASC OPERATING CONDITION	On/Off	Indicates active noise enhancement system operating condition. On: Active noise enhancement system is operating Off: Active noise enhancement system is not operate
ENGINE SPEED	_	Value of the engine speed signal received from ECM.
DOOR STATUS	Open/Close	NOTE: This item is displayed, but cannot be monitored.
CONFIGURATION (PARA)	1 - 16	Indicates configuration result.

WORK SUPPORT

Item	Description
ANC SETTING	Active noise cancellation system can be switched to ON/OFF.
ASC SETTING	Active noise enhancement system can be switched to ON/OFF.

ACTIVE TEST

Test item	Description
ANC TEST TONE	Output/stop the test tone from the audio speaker.

ECU IDENTIFICATION

The part number of active noise control unit is displayed.

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ECU DIAGNOSIS INFORMATION

DISPLAY CONTROL UNIT

Reference Value

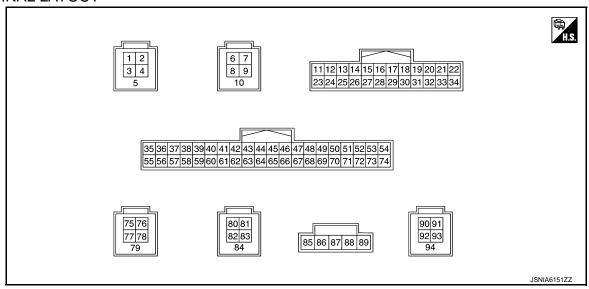
VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

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
PKB SIG	Ignition switch	Parking brake is applied.	On
PKB SIG	ON	Parking brake is released.	Off
ILLUM SIG	Ignition switch	Block the light beam from the auto light optical sensor when the light switch is ON.	On
	ON	Expose the auto light optical sensor to light when the light switch is OFF or ON.	Off
ICM SIC	Ignition switch C	DN.	On
IGN SIG	Ignition switch A	CC.	Off
DEV 010	Ignition switch	Selector lever in R position.	On
REV SIG	ON	Selector lever in any position other than R.	Off

TERMINAL LAYOUT



PHYSICAL VALUES

	Terminal Description			Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
1 (G)	_	USB ground	_	_	_
2 (W)	_	USB V BUS signal	Output	_	_

Revision: November 2016 AV-99 2016 Q50

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< ECU DIAGNOSIS INFORMATION >

Terminal (Wire color)		Description		Condition	Reference value
+	-	Signal name	Input/ Output	Condition	(Approx.)
3 (R)	_	USB D- signal	Input/ Output	_	-
4 (L)	_	USB D+ signal	Input/ Output	_	_
5 ()	_	Shield	_	_	_
6 (G)	_	USB ground	_	_	_
7 (W)	_	USB V BUS signal	Output	_	_
8 (R)	_	USB D- signal	Input/ Output	_	_
9 (L)		USB D+ signal	Input/ Output		_
10 (—)	_	Shield		_	_
16 (LG)	_	AV communication signal (L)	Input/ Output	_	_
17 (P)	_	CAN-L	Input/ Output	_	_
19 (R)	L limmor cia	Dimmer signal	Input	 [Ignition switch ON] Either of the following conditions Lighting switch OFF Expose the auto light optical sensor to light when the light switch is ON. 	0 V
()	(B)			 [Ignition switch ON] Block the light beam from the auto light optical sensor when the light switch is ON. 	12.0 V
20	22	Reverse signal	Input	[Ignition switch ON] • R position	12.0 V
(BR)	(B)			[Ignition switch ON] Other than R position	0 V
22 (B)	_	Ground	_	[Ignition switch ON]	0 V
26	22	Camera switch signal	Input	[Ignition switch ON] • Camera switch: ON	0 - 2.5 V
(BR)	(B)	Samora Switch Signal	Прис	[Ignition switch ON] • Camera switch: OFF	3.0 V
28 (SB)	_	AV communication signal (H)	Input/ Output	_	_
29 (L)	_	CAN-H	Input/ Output	_	_
30 (W) ^{*1} (R) ^{*2}	22 (B)	Ignition signal	Input	[Ignition switch ON]	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	minal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
31 (R)	22 (B)	Vehicle speed signal (8-pulse)	Input	[Ignition switch ON] • When vehicle speed is approx. 40 km/h (25 MPH)	NOTE: The maximum voltage varies depending on the specification (destination unit).
33 (SB) ^{*6} (V) ^{*7}	22 (B)	ACC power supply	Input	[Ignition switch ACC]	Battery voltage
34 (Y)	22 (B)	Battery power supply	Input	[Ignition switch OFF]	Battery voltage
36 (LG)	_	Composite image signal (-)	_	_	_
38 (—)	_	Shield	_	_	_
40 ^{*3} (—)	_	Manufacturer specific sig- nal	_	_	_
42 (G)	_	Sound signal RH (–)	_	_	_
43 (—)	_	Shield	_	_	_
44 (L)	_	Sound signal LH (-)	_	_	_
45 (W)	_	TEL voice signal (-)	_	_	_
46 (—)	_	Shield	_	_	_
47 (R)	_	Voice guidance signal output (–)	_	_	_
48 (B)	_	Voice guidance signal input (-)	_	_	_
49 (W)	_	NS ON/OFF signal	_	_	_
50 (R)	_	Microphone signal ground (With navigation)	_	[Ignition switch ON]	0 V
51 (—)	_	Shield	_	_	_
52 (—)	_	Microphone signal ground	_	[Ignition switch ON]	0 V
54 (W)	_	Camera power supply ground	_	[Ignition switch ON]	0 V
55 (—)	_	Shield	_	_	_

< ECU I	JIAGING	DSIS INFORMATION >			
	minal color)	Description		- Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
56 (BR)	36 (LG)	Composite image signal (+)	Input	[Ignition switch ON] • Image is displayed.	(V) 0. 4 0 -0. 4 -40µs SKIB2251J
58 (B)	22 (B)	Camera image signal	Input	[Ignition switch ON] • Image is displayed.	(V) 0.4 0 -0.4 20µs skiboez7E
60 (W)	_	Sound signal (-)	_	_	_
61 (B)	60 (W)	Sound signal (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
62 (R)	42 (G)	Sound signal RH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
63 (—)	_	Shield	_	_	_
64 (V)	44 (L)	Sound signal LH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKiB3609E
65 (B)	45 (W)	TEL voice signal (+)	Input	[Ignition switch ON] ■ During voice guide output with the	(V) 1 0 -1 + 2ms SKIB3609E
66 (—)	_	Shield	_	_	_

< ECU DIAGNOSIS INFORMATION >

[INFINITI INTOUCH]

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Term (Wire	ninal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
67 (G)	47 (R)	Voice guidance signal output (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
68 (W)	48 (B)	Voice guidance signal input (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
69 (—)	_	Shield	_	_	_
70 (G)	50 (R)	Microphone signal (NAVI)	Output	[Ignition switch ON] • Give a voice	(V) 2.5 2.0 1.5 1.0 0.5 0
71 (R) ^{*4} (G) ^{*5}	52 (—)	Microphone signal	Output	[Ignition switch ON] • Give a voice	(V) 2.5 2.0 1.5 1.0 0.5 0
72 (L)	22 (B)	Microphone VCC	Output	[Ignition switch ON]	5.0 V
74 (R)	54 (W)	Camera power supply	Output	[Ignition switch ON]At rear view camera image is displayed[Ignition switch ON]	6.0 V
77	78	LVDS (+)	Input/	• Except for above	0 V
78 (B)	(B)	LVDS (-)	Output Input/ Output	_	_
79 (—)	_	Shield	— —	_	_
80 (G)	_	USB ground	_	_	_
81 (W)	_	USB V BUS signal	Output	_	
82 (R)	_	USB D- signal	Input/ Output	_	_

< ECU DIAGNOSIS INFORMATION >

[INFINITI INTOUCH]

	minal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
83 (L)	_	USB D+ signal	Input/ Output	_	_
84 (—)	_	Shield	_	_	_
85 (R)	_	USB V BUS signal	Output	_	_
86 (P)	_	USB D- signal	Input/ Output	_	_
87 (W)	_	USB D+ signal	Input/ Output	_	_
89 (Y)	_	USB ground	_	_	_
92 (W)	_	LVDS (+)	Input/ Output	<u> </u>	_
93 (B)	_	LVDS (-)	Input/ Output	_	_
94	_	Shield	_	_	_

^{*1:} For 2.0L turbo gasoline engine

Fail-Safe (Display Control Unit)

INFOID:0000000012795563

If a malfunction occurs in the Infiniti InTouch, display control unit performs fail-safe activation according to the detected malfunction.

Detection item	Infiniti InTouch operation in fail-safe mode	DTC
Engine speed signal	Active noise cancellation system and active sound enhancement system function are deactivated.	B1F01
Front microphone	Active noise cancellation function is deactivated.	B1F0B B1F0C B1F0D B1F0E
CAN communication	The system using the CAN communication signal from control unit which cannot communicate does not function.	
	The system using the CAN communication signal does not function.	U1010
Display control unit	 Display is not displayed. Display control unit restart. Display control unit freezes. NOTE: Symptom other than an item may occur. 	U121F
Configuration	A function of display control unit becomes mismatched with a vehicle specification and destination.	U1223
BOSE amp.	BOSE system does not function.	U1231
Steering angle sensor	Predictive course line is not displayed.	U1232

^{*2:} For VR30 engine

^{*3:} Not used

^{*4:} With telematics system

^{*5:} Without telematics system

^{*6:} Except for VR30 engine and with ISS

^{*7:} For VR30 engine and with ISS

< ECU DIAGNOSIS INFORMATION >

[INFINITI INTOUCH]

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Detection item		Infiniti InTouch operation in fail-safe mode	DTC
NAVI control unit	 Navigation screen NOTE: 	Map is not displayed. Navigation screen does not operate. IOTE: symptom other than an item may occur.	
AV control unit	CD is not played.Radio does not op NOTE:	Radio does not operate.	
GPS antenna	The vehicle position	The vehicle positions of a navigation screen differ.	
	AV control unit	 Sound is not output by a speaker. CD is not played. Radio does not operate. NOTE: Symptom other than an item may occur. 	U1249
	BOSE amp.	Sound is not output by a speaker.	U124E
AV communication	Integral switch	 Integral switch display is not displayed. Switch operation does not operate. Touch panel operation does not operate. NOTE: Symptom other than an item may occur. 	U1259
	Around view monitor control unit	Camera image is not displayed.	U125B
	Combination meter	 Audio information is not displayed by the information display in the combination meter. Navigation indicator is not displayed by the information display in the combination meter. Steering switch does not operate. 	U1267
	Display control unit	The system of ECU which detected abnormalities does not operate.	U1300
		The system which is using AV communication does not operate.	U1310
Satellite radio antenna	Satellite radio is not	Satellite radio is not received.	
USB communication	NAVI control unit	A navigation menu cannot be selected (hatching display).	U125D
	TCU	Telematics system does not function.	U1266
	External data input box	Audio equipment which connected to USB does not operate.	U12B7
Rear view camera	Rear camera image	Rear camera image is not displayed.	
Multifunction switch	Multifunction switch operation does not operate.		U12BA
Radio antenna	Radio is not received. U12BE		

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< ECU DIAGNOSIS INFORMATION >

[INFINITI INTOUCH]

Detection item	Infiniti InTouch operation in fail-safe mode DTC		
	With BOSE system		
	Front door woofer	No sound from front door woofer LH or RH.	U1601 U1609
	Front door squawk- er	No sound from front door squawker LH or RH.	U1602 U160A
	Front door tweeter	No sound from front door tweeter LH or RH.	U1603 U160B
	Front squawker	No sound from front squawker LH or RH.	U1626 U162E
Speaker/squawker/tweeter/	Front center squawker	No sound from front center squawker.	U162A
woolei	Rear door speaker	No sound from rear door speaker LH or RH.	U1708 U1710
	Rear satellite speaker	No sound from rear satellite speaker LH or RH.	U1722 U172A
	Rear woofer	No sound from rear woofer.	U1725
	Without BOSE system		
	Front door speaker	No sound from front door speaker LH or RH.	U1600 U1608
	Rear door speaker	No sound from rear door speaker LH or RH.	U1708 U1710

DTC Inspection Priority Chart

INFOID:0000000012795564

If multiple DTCs are detected simultaneously, check them one by one depending on the following DTC inspection priority chart.

Priority	Detected items (DTC)	
1	U1223: CONFIG UNFINISH	
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)	
3	B1F01: ENG SPEED SIG ERROR U1249: AUDIO H/U CONN U124E: AMP CONN U1259: 2ND DISP CONN U125B: AROUND CAMERA CONN U1267: METER CONN	

< ECU DIAGNOSIS INFORMATION >

[INFINITI INTOUCH]

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Priority	Detected items (DTC)	Ē
4	U121F: DISPLAY CONTROL UNIT U1233: NAVI CONTROL UNIT U1234: AV CONTROL UNIT U1300: AV COMM CIRCUIT U1310: CONTROL UNIT(AV)	В
	 B1F0B: ANC MIC1 CIRC OPEN B1F0C: ANC MIC1 CIRC SHORT B1F0D: ANC MIC1 CIRC SHORT-BAT B1F0E: ANC MIC1 CIRC SHORT-GND 	С
	 U1232: ST ANGLE SEN CALIB U1244: GPS ANTENNA CONN U1258: XM ANTENNA CONN U125D: DVD NAVI CONN 	D
	 U1266: TCU CONN U12B7: USB CONN U12B8: REAR CAMERA CONN U12BA: MULTIFUNCTION SWITCH CONN 	Е
5	 U12BE: RADIO ANTENA CONN U1231: AMP TEMP U1600: FL-DOOR SPEAKER U1601: FL-DOOR WOOFER 	F
	 U1602: FL-DOOR SQUAWK U1603: FL-DOOR TWEETER U1608: FR-DOOR SPEAKER 	G
	 U1609: FR-DOOR WOOFER U160A: FR-DOOR SQUAWK U160B: FR-DOOR TWEETER U1626: F-INST L-SQUAWK 	Н
	 U162A: F-INST C-SQUAWK U162E: F-INST R-SQUAWK U1708: RL-DOOR SPEAKER U1710: RR-DOOR SPEAKER 	I
	 U1722: R-PSHELF L-SQUAWK U1725: R-PSHELF C-WOOFER U172A: R-PSHELF R-SQUAWK 	J

DTC Index

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

DTC	CONSULT display	Reference
B1F01	ENG SPEED SIG ERROR	AV-281, "WITH BOSE SYSTEM: DTC Description"
B1F0B	ANC MIC1 CIRC OPEN	AV-289, "DTC Description"
B1F0C	ANC MIC1 CIRC SHORT	AV-289, "DTC Description"
B1F0D	ANC MIC1 CIRC SHORT-BAT	AV-289, "DTC Description"
B1F0E	ANC MIC1 CIRC SHORT-GND	AV-289, "DTC Description"
U1000	CAN COMM CIRCUIT	AV-307, "DISPLAY CONTROL UNIT: DTC Description"
U1010	CONTROL UNIT (CAN)	AV-309, "DISPLAY CONTROL UNIT: DTC Description"
U121F	DISPLAY CONTROL UNIT	AV-311, "DTC Description"
U1223	CONFIG UNFINISH	AV-312, "DTC Description"
U1231	AMP TEMP	AV-313, "DTC Description"
U1232	ST ANGLE SEN CALIB	AV-314, "DTC Description"
U1233	NAVI CONTROL UNIT	AV-315, "DTC Description"
U1234	AV CONTROL UNIT	AV-316, "DTC Description"

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DTC	CONSULT display		Reference	
U1244	GPS ANTENNA CONN		AV-317, "DTC Description"	
U1249	AUDIO H/U CONN	AUDIO H/U CONN		
U124E	AMP CONN	AMP CONN		
U1258	XM ANTENNA CONN	XM ANTENNA CONN GND-SHORT OPEN		
U1259	2ND DISP CONN		AV-323, "DTC Description"	
U125B	AROUND CAMERA CONN		AV-325, "DTC Description"	
U125D	DVD NAVI CONN		AV-327, "DTC Description"	
U1266	TCU CONN		AV-328, "DTC Description"	
U1267	METER CONN		AV-329, "DTC Description"	
U12B7	USB CONN		AV-331, "DTC Description"	
U12B8	REAR CAMERA CONN		AV-332, "DTC Description"	
U12BA	MULTIFUNCTION SWITCH CONN		AV-334, "DTC Description"	
U12BE	RADIO ANTENA CONN	GND-SHORT OPEN	AV-336, "DTC Description"	
U1300	AV COMM CIRCUIT	0. =	AV-338, "DTC Description"	
U1310	CONTROL UNIT(AV)		AV-340, "DTC Description"	
01010	CONTROL CHIT(NY)	OPEN	7.W 010, BTO Bosonption	
		SHORT		
U1600	FL-DOOR SPEAKER	GND-SHORT	AV-341, "DTC Description"	
		VB-SHORT		
		OPEN		
		SHORT	AV-344, "DTC Description"	
U1601	FL-DOOR WOOFER	GND-SHORT		
		VB-SHORT		
		OPEN		
		SHORT	AV-347, "DTC Description"	
U1602	FL-DOOR SQUAWK	GND-SHORT		
		VB-SHORT		
		OPEN	AV-350, "DTC Description"	
		SHORT		
U1603	FL-DOOR TWEETER	GND-SHORT		
		VB-SHORT		
		OPEN		
		SHORT	AV-341, "DTC Description"	
U1608	FR-DOOR SPEAKER	GND-SHORT		
		VB-SHORT		
		OPEN		
		SHORT	AV-344, "DTC Description"	
U1609	FR-DOOR WOOFER			
		GND-SHORT		
		VB-SHORT		

DISPLAY CONTROL UNIT

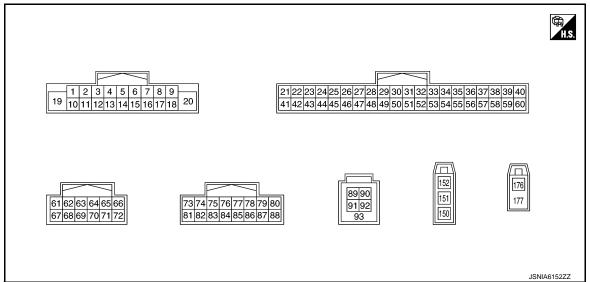
< ECU DIAGNOSIS INFORMATION >

DTC	CONSULT display	Reference		
		OPEN		
114004	ED DOOD COUNTY	SHORT	AV/ 0.47 #BTO B	
U160A	FR-DOOR SQUAWK	GND-SHORT	AV-347, "DTC Description"	
		VB-SHORT		
		OPEN		
		SHORT		
U160B	FR-DOOR TWEETER	GND-SHORT	AV-350, "DTC Description"	
		VB-SHORT		
		OPEN		
		SHORT		
U1626	F-INST L-SQUAWK	GND-SHORT	AV-353, "DTC Description"	
		VB-SHORT		
		OPEN		
	_ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SHORT		
U162A	F-INST C-SQUAWK	GND-SHORT	AV-356, "DTC Description"	
		VB-SHORT		
		OPEN		
		SHORT	AV 050 UDTO December 1	
U162E	F-INST R-SQUAWK	GND-SHORT	AV-353, "DTC Description"	
		VB-SHORT		
		OPEN	AV-358, "DTC Description"	
111700		SHORT		
U1708	RL-DOOR SPEAKER	GND-SHORT		
		VB-SHORT		
		OPEN		
114740	DD DOOD ODEALED	SHORT		
U1710	RR-DOOR SPEAKER	GND-SHORT	AV-358, "DTC Description"	
		VB-SHORT		
		OPEN		
114700	D DOUGLET COLLANG	SHORT	AV 000 UDTO Decembrica	
U1722	R-PSHELF L-SQUAWK	GND-SHORT	AV-362, "DTC Description"	
		VB-SHORT		
		OPEN		
114705	D DOUGLE C WOOFED	SHORT	A. (205 1970 19 19 19 19 19 19 19 1	
U1725	R-PSHELF C-WOOFER	GND-SHORT	AV-365, "DTC Description"	
		VB-SHORT		
		OPEN		
114704	D DOUGLE D COLLANAIX	SHORT	AV 000 ====	
U172A	R-PSHELF R-SQUAWK	GND-SHORT	AV-362, "DTC Description"	
		VB-SHORT		

AV CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	minal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
1 (—)	_	Shield	_	_	_
2 (L)	3 (R)	Sound signal front LH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 *** 2ms SKIB3609E
3 (R)	_	Sound signal front LH (-)	_	_	_
4 (LG)	5 (SB)	Sound signal rear LH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
5 (SB)	_	Sound signal rear LH (-)	_	_	_
7 (SB)*1 (V)*2	20 (B)	ACC power supply	Input	[Ignition switch ACC]	Battery voltage

AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

	minal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
8	9	Disk eject signal	Input	[Ignition switch ON] • Pressing the eject switch	0 V
(W/B)	(BG)	Dion ojoot dignar	mpat	[Ignition switch ON] • Except for above	3.3 V
9 (BG)	_	Disk eject signal ground	_	[Ignition switch ON]	0 V
10 (—)	_	Shield	_	_	_
11 (LG)	12 (P)	Sound signal front RH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
12 (P)	_	Sound signal front RH (-)	_	_	_
13 (L)	14 (P)	Sound signal rear RH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
14 (P)	_	Sound signal rear RH (-)	_	_	_
19 (Y)	20 (B)	Battery power supply	Input	[Ignition switch OFF]	Battery voltage
20 (B)	_	Ground	_	[Ignition switch ON]	0 V
22 (LG)	_	AV communication signal (L)	Input/ output	_	_
36 (L)	56 (V)	AUX image signal (+)	Input	[Ignition switch ON] • Image is displayed.	(V) 0. 4 0 -0. 4 +-40μs SKIB2251J
38 (BR)	39 (LG)	Composite image signal (+)	Output	[Ignition switch ON] • Image is displayed.	(V) 0. 4 0 -0. 4 -40µs SKIB2251J
39 (LG)	_	Composite image signal (-)		_	

Terminal (Wire color)		Description		Condition	Reference value
+	-	Signal name	Input/ Output	Condition	(Approx.)
40 (—)	_	Shield	_	_	_
42 (SB)	_	AV communication signal (H)	Input/ output	_	_
56 (V)	_	AUX image signal (–)	_	_	_
57 (—)	_	Shield	_	_	_
61 (V)	67 (L)	Sound signal LH (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
62 (R)	68 (G)	Sound signal RH (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
63 (—)	_	Shield	_	_	_
65 (—)	_	Shield	_	_	_
66 (W)	71 (R)	AUX sound signal LH	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 ** 2ms SKIB3609E
67 (L)	_	Sound signal LH (-)	_	_	_
68 (G)	_	Sound signal RH (-)	_	_	_
69 (—)	_	Shield	_	_	_
71 (R)	_	AUX sound signal ground	_	_	_
72 (B)	71 (R)	AUX sound signal RH	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E

AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Terminal (Wire color)		Description		Condition	Reference value
+	-	Signal name	Input/ Output	Condition	(Approx.)
73 (B)	81 (W)	TEL voice signal (+)	Input	[Ignition switch ON] • During voice guide output with the √∠ ✓ switch pressed	(V) 1 0 -1 ** 2ms SKIB3609E
74 (—)	_	Shield	_	_	_
75 (G)	83 (R)	Voice guidance signal output (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
76 (B)	_	Shield	_	_	_
77 (G)	78 (L)	Sound signal front LH (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
78 (L)	_	Sound signal front LH (-)	_	_	_
79 (LG)	80 (P)	Sound signal rear LH (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
80 (P)	_	Sound signal rear LH (-)	_	_	_
81 (W)	_	TEL voice signal (-)	_	_	_
82 (—)	_	Shield	_	_	_
83 (R)	_	Voice guidance signal output (–)	_	_	_
84 (B)	_	Shield	_	_	_

< ECU DIAGNOSIS INFORMATION >

	minal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
85 (R)	86 (L)	Sound signal front RH (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
86 (L)	_	Sound signal front RH (-)	_	_	_
87 (B)	88 (W)	Sound signal rear RH (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
88 (W)	_	Sound signal rear RH (-)	_	_	_
89 (G)	_	USB ground	_	_	_
90 (W)	_	USB V BUS signal		_	_
91 (R)	_	USB D- signal		_	_
92 (L)	_	USB D+ signal	_	_	_
93 (—)	_	Shield	_	_	_
150 (—)	_	FM sub	Input	_	_
151 (—)	_	AM-FM main	Input	_	_
152 (—)	20 (B)	Antenna amp. ON signal	Output	[Ignition switch ACC]	12.0 V
176 (—)	20 (B)	Satellite radio antenna signal	Input	[Ignition switch ON]Not connected satellite antenna connector.	5.0 V
177 (—)	_	Shield	_	_	_

^{*1:} Except for VR30 engine and with ISS *2: For VR30 engine and with ISS

Α

В

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G

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L

M

ΑV

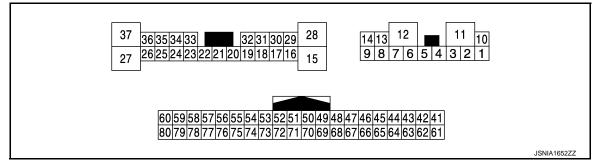
0

Р

BOSE AMP.

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	minal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
1 (R)	2 (L)	Sound signal rear woofer (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
2 (L)	_	Sound signal rear woofer (–)	-	_	_
3 (L)	4 (Y)	Sound signal front door woofer RH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
4 (Y)	_	Sound signal front door woofer RH (-)	_	_	_
5 (BR)	6 (R)	Sound signal rear door speaker LH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 *** 2ms SKIB3609E
6 (R)	_	Sound signal rear door speaker LH (–)	_	_	_
7 (B)	_	Ground	_	[Ignition switch ON]	0 V
8 (V)	_	Sound signal front door woofer LH (–)	_	_	_
9 (P)		Sound signal rear door speaker RH (-)		_	_

	ninal color)	Description		Condition	Reference value
+	-	Signal name	Input/ Output	Condition	(Approx.)
10 (BR)	7 (B)	Battery power supply	Input	[Ignition switch OFF]	Battery voltage
11 (GR)	7 (B)	Battery power supply	Input	[Ignition switch OFF]	Battery voltage
12 (B)	_	Ground	_	[Ignition switch ON]	0 V
13 (P)	8 (V)	Sound signal front door woofer LH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 → 2ms SKiB3609E
14 (L)	9 (P)	Sound signal rear door speaker RH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 2ms SKIB3609E
16 (P)	29 (V)	Sound signal front squawker LH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 → 2ms SKIB3609E
17 (BR)	18 (GR)	Sound signal center squawker (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
18 (GR)	_	Sound signal center squawker (–)	_	_	_
19 (W)	32 (B)	Sound signal front RH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 2ms SKIB3609E

BOSE AMP.

[INFINITI INTOUCH]

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	minal color)	Description			Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
22 (W)	33 (B)	Sound signal satellite speaker LH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
23 (L)	34 (P)	Sound signal satellite speaker RH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + +2ms SKIB3609E
24 (G)	35 (R)	Sound signal front LH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
28 ^{*1} (B)	Ground	Engine type signal 2	Input	[Ignition switch ON]	0 V
29 (V)	_	Sound signal front squawker LH (–)	_	_	_
30 (L)	_	Sound signal front squawker RH (–)	_	_	_
31 (P)	30 (L)	Sound signal front squawker RH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
32 (B)		Sound signal front RH (-)	_	_	_
33 (B)	_	Sound signal satellite speaker LH (–)	_	_	_
34 (P)	_	Sound signal satellite speaker RH (–)	_	_	_
35 (R)	_	Sound signal front LH (-)	_	_	_
43 (W)	_	Rear microphone ground	_	_	_
44 (R)	_	Voice guidance signal (-)	_	_	_
45 (R)		Sound signal LH (-)	_	_	_

< ECU DIAGNOSIS INFORMATION >					
	ninal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
46 (B)	_	Sound signal RH (–)		_	_
52 (R)	_	Front microphone ground	_	_	_
54 (LG)	_	AV communication signal (L)	Input/ Output	_	_
56 (V)	7 (B)	ACC power supply	Input	[Ignition switch ACC]	Battery voltage
58 ^{*2} (B)	Ground	Engine type signal 1	Input	[Ignition switch ON]	0 V
63 (BG)	43 (W)	Rear microphone signal	Input	[Ignition switch ON] • When inputting interior sound	(V) 1 0 -1 + 2ms SKIB3609E
64 (G)	44 (R)	Voice guidance signal (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 * 2ms SKIB3609E
65 (L)	45 (R)	Sound signal LH (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 → 2ms SKIB3609E
66 (W)	46 (B)	Sound signal RH (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
72 (G)	52 (R)	Front microphone signal	Input	[Ignition switch ON] • When inputting interior sound	(V) 1 0 -1 + 2ms SKIB3609E
74 (P)	_	AV communication signal (H)	Input/ Output	_	_

BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[INFINITI INTOUCH]

	minal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
78 (W)	7 (B)	Engine speed signal	Input	[Engine running] • Idle speed	10mSec/div
79 (—)	_	Shield	_	_	_

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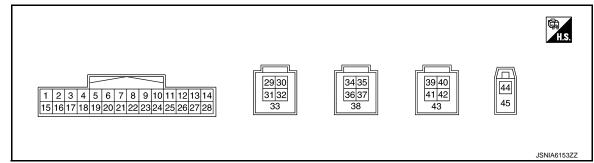
2016 Q50

^{*1:} For VR30DDTT engine
*2: For 2.0L turbo gasoline engine

NAVI CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	minal color)	Description		- Condition	Reference value
+	_	Signal name	Input/ Output		(Approx.)
1 (Y)	3 (B)	Battery voltage	Input	[Ignition switch OFF]	Battery voltage
3 (B)	_	Ground	_	[Ignition switch ON]	0 V
5 (SB) ^{*1} (V) ^{*2}	3 (B)	Acc power supply	Input	[Ignition switch ACC]	Battery voltage
7 (R)	3 (B)	Vehicle speed signal (8-pulse)	Input	[Ignition switch ON] • When vehicle speed is approx. 40 km/h (25 MPH)	NOTE: The maximum voltage varies depending on the specification (destination unit).
12 (G)	26 (R)	Microphone signal	Input	[Ignition switch ON] • Give a voice	(V) 2. 5 2. 0 1. 5 1. 0 0. 5 0
13 (—)	_	Shield	_	_	_
14 (W)	28 (B)	Voice guidance signal output (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E

NAVI CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[INFINITI INTOUCH]

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Term (Wire		Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
15 (Y)	3 (B)	Battery voltage	Input	[Ignition switch OFF]	Battery voltage
17 (B)	_	Ground	_	[Ignition switch ON]	0 V
19 W) ^{*1} (R) ^{*2}	3 (B)	Ignition signal	Input	[Ignition switch ON]	Battery voltage
21	3	Reverse signal	Input	[Ignition switch ON] • R position	12.0 V
(BR)	(B)	Treverse signal	mpat	[Ignition switch ON] Other than R position	0 V
26 (R)	_	Microphone signal ground	_	_	_
27 (—)	_	Shield	_	_	
28 (B)	_	Voice guidance signal output (–)	_	_	_
31 (W)	_	LVDS (+)	Input/ output	_	_
32 (B)	_	LVDS (-)	Input/ output	_	_
33 (—)	_	Shield	_	_	_
34 (G)	_	USB ground	_	_	_
35 (W)	_	USB V BUS signal	_	_	_
36 (R)	_	USB D- signal	_	_	_
37 (L)	_	USB D+ signal	_	_	_
38 (—)	_	Shield	_	_	_
39 (G)	_	USB ground	_	_	_
40 (W)	_	USB V BUS signal	_	_	_
41 (R)	_	USB D- signal	_	_	_
42 (L)	_	USB D+ signal	_	_	_
43 (—)	_	Shield	_	_	_
44 (—)	3 (B)	GPS antenna signal	Input	[Ignition switch ON] • Not connected GPS antenna connector	5.0 V
45 (—)	_	Shield	_	_	_

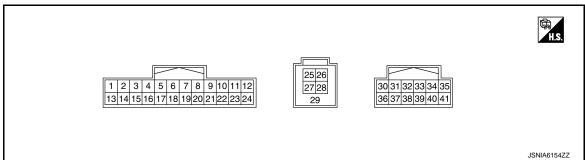
^{*1:} For 2.0L turbo gasoline engine

^{*2:} Except for 2.0L turbo gasoline engine

INTEGRAL SWITCH

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	minal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
2	13	Illumination signal	Input	[Ignition switch ON] • Lighting switch 1ST position	12.0 V
(R)	(B)	mummauon signai	input	[Ignition switch ON] • Lighting switch OFF	0 V
3 (LG)	_	AV communication signal (L)	_	_	_
4 (SB)	_	AV communication signal (H)	_	_	_
7	16	Dick eject ejanal	Output	[Ignition switch ON] • Pressing the eject switch	0 - 1.5 V
(W/B)	(BG)	Disk eject signal	Output	[Ignition switch ON] • Except for above	Battery voltage
13 (B)	_	Ground	_	[Ignition switch ON]	0 V
14 (SB)*1 (V)*2	13 (B)	ACC power supply	Input	[Ignition switch ACC]	Battery voltage

INTEGRAL SWITCH

< ECU DIAGNOSIS INFORMATION >

	ninal color)	Description				Reference value
+	_	Signal name	Input/ Output	- Condition	1	(Approx.)
				[Ignition switch ON] • Lighting switch 1ST pour of the switch 1ST p		(V) 15 10 5 0 2.5 ms JSNIA5983GB
15 (B)	13 (B)	Illumination control signal	Input	[Ignition switch ON] • Lighting switch 1ST p • When meter illuminati	osition on is step 11	(V) 15 10 5 0 2.5 ms
				[Ignition switch ON] • Lighting switch 1ST p • When meter illuminati	osition on is maximum	0 V
16 (BG)	_	Disk eject signal ground	_	[Ignition switch ON]		0 V
18 (W) ^{*1} (R) ^{*2}	13 (B)	Ignition signal	Input	[Ignition switch ON]		Battery voltage
19 (BR)	13 (B)	Camera switch signal	Output	[Ignition switch ON]		0 - 2.5 V 3.0 V
27 (W)	_	LVDS (+)	Input/ output	— Camera switch. OFF		
28 (B)	_	LVDS (-)	Input/ output	_		_
29 (—)	_	Shield	_	_		_
30 (BB)	31	Illumination signal (Multi-	Output	[Ignition switch ON] • Lighting switch 1ST p	osition	12.0 V
(BR)	(W)	function switch)		[Ignition switch ON] • Lighting switch OFF		0 V
31 (W)	_	Ground (multifunction switch)	_	[Ignition switch ON]		0 V
32 (R)	31 (W)	ENCD-B signal	Input	[Ignition switch ON] • Multifunction switch: F	Rotate	2.0 - 4.3 V
					OFF	4.3 - 4.9 V
33	31	Push switch A signal	Input	[Ignition switch ON]	UP	2.8 - 3.3 V
(R)	(W)		1	Multifunction switch	Down	1.6 - 2.0 V
					Back	0.4 - 0.55 V
34	31			[Ignition switch ON]	OFF	4.3 - 4.9 V
(W)	(W)	Push switch C signal	Input	Multifunction switch	OK	2.3 - 2.8 V
					MAP/DISP	0.4 - 0.55 V

INTEGRAL SWITCH

	minal color)	Description		Condition		Reference value
+	_	Signal name	Input/ Output	Condition		(Approx.)
				[Ignition switch ON] • Lighting switch 1ST po • When meter illuminati	osition on is minimum	(V) 15 10 5 0 2.5 ms JSNIA5983GB
36 (V)	31 (W)	Illumination control switch (multifunction switch)	Output	[Ignition switch ON] • Lighting switch 1ST po • When meter illuminati		(V) 15 10 5 0 2.5 ms JPNIA1686GB
				[Ignition switch ON] • Lighting switch 1ST po • When meter illuminati		0 V
37 (W)	31 (W)	ENCD-A signal	Input	[Ignition switch ON] • Multifunction switch: F	Rotate	2.0 - 4.3 V
38 (G)	31 (W)	Select switch signal	Input	[Ignition switch ON]		0.7 - 4.2 V
-					OFF	4.3 - 4.9 V
39	31			[Ignition switch ON]	Left	2.8 - 3.3 V
(B)	(W)	Push switch B signal	Input	Multifunction switch	Right	1.6 - 2.0 V
					CAMERA/ DAY NIGHT	0.4 - 0.55 V
40 (B)	_	Shield	_	_		_
41 (L)	31 (W)	L/R detection signal	Input	[Ignition switch ON]		0.7 - 4.2 V

^{*1:} For 2.0L turbo gasoline engine *2: For VR30 engine

< ECU DIAGNOSIS INFORMATION >

[INFINITI INTOUCH]

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ACTIVE NOISE CONTROL UNIT

Reference Value

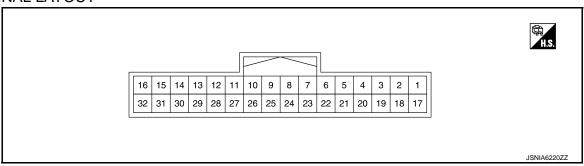
VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

Monitor Item	Condition	Value/Status
ANC OPERATING CONDITION	Active noise cancellation system is not operating.	Off
ANC OPERATING CONDITION	Active noise cancellation system is operating.	On
ACC ODEDATING CONDITION	Active sound enhancement system is not operating.	Off
ASC OPERATING CONDITION	Active sound enhancement system is operating.	On
ENGINE SPEED	Engine running.	Almost the same speed as the tachometer indication.
DOOR STATUS	NOTE: The item is indicated, but not monitored	
CONFIGURATION (PARA)	Ignition switch: ON	2

TERMINAL LAYOUT



PHYSICAL VALUES

	minal color)	Description		Condition	Ctondord value	Reference value
+	_	Signal name	Input/ Output	Condition	Standard value	(Approx.)
1 (—)	_	Ground	_	[Ignition switch ON]	_	0 V
2 (P)*1 (R)*2	_	CAN-L	Input/ Output	_	_	_
3 (B)	Groun d	Engine type signal		[Ignition switch ON] NOTE: Output voltage varies with engine type.	0 - 5.0 V	0 V
4 (B)	Groun d	Engine type signal 2	_	[Ignition switch ON] NOTE: Output voltage varies with engine type.	0 - 5.0 V	0 V

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	ninal color)	Description		Condition	Standard value	Reference value
+	1	Signal name	Input/ Output	Condition	Standard value	(Approx.)
8 (G)	24 (R)	Front microphone signal (+)	Input	[Ignition switch ON] • When inputting interior sound	Waveform according to sound signal is input.	(V) 1 0 -1 + 2ms SKIB3609E
9 (BG)	25 (W)	Rear microphone signal (+)	Input	[Ignition switch ON] • When inputting interior sound	Waveform according to sound signal is input.	(V) 1 0 -1 + 2ms SKIB3609E
12 (G)	28 (L)	Sound signal front LH (+)	Output	[Ignition switch ON] • Sound output	Outputs wave- form synchro- nized with sound.	(V) 1 0 -1 + 2ms SKIB3609E
13 (R)	29 (L)	Sound signal front RH (+)	Output	[Ignition switch ON] • Sound output	Outputs wave- form synchro- nized with sound.	(V) 1 0 -1 + 2ms SKIB3609E
14 (LG)	30 (P)	Sound signal rear LH (+)	Output	[Ignition switch ON] • Sound output	Outputs wave- form synchro- nized with sound.	(V) 1 0 -1 + 2ms SKIB3609E
15 (B)	31 (W)	Sound signal rear RH (+)	Output	[Ignition switch ON] • Sound output	Outputs wave- form synchro- nized with sound.	(V) 1 0 -1 + 2ms SKIB3609E
16 (V)	23 (B)	ACC power supply	Input	[Ignition switch ACC]	9.0 - 16.0 V	Battery voltage
18 (L)	_	CAN-H	Input/ Output	<u> </u>	_	_

< ECU DIAGNOSIS INFORMATION >

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	minal color)	Description		Condition	Standard value	Reference value
+	_	Signal name	Input/ Output	Condition	Otandard value	(Approx.)
19 (P)	23 (B)	Engine speed signal	Input	[Engine is running] • Idle NOTE: The pulse cycle changes depending on engine type.	_	10mSec/div
20 (W)	23 (B)	Ignition signal	Input	[Ignition switch ON]	9.0 - 16.0 V	Battery voltage
23 (B)	_	Ground	_	[Ignition switch ON]	_	0 V
24 (R)	_	Front microphone signal (–)	_	_	_	_
25 (W)	_	Rear microphone signal (–)	_	_	_	_
28 (L)	_	Sound signal front LH (-)	_	_	_	_
29 (L)	_	Sound signal front RH (-)	_	_	_	_
30 (P)	_	Sound signal rear LH (-)	_	_	_	_
31 (W)	_	Sound signal rear RH (-)	_	_	_	_
32 (Y)	23 (B)	Battery power sup- ply	Input	[Ignition switch OFF]	9 - 16.0 V	Battery voltage

^{*1:} For 2.0L turbo gasoline engine

Fail-Safe (Active Noise Control Unit)

If a malfunction occurs in the Active noise cancellation system or Active sound enhancement system, active noise control unit performs fail-safe activation according to the detected malfunction.

Detection item	ANC/ASC operation in fail-safe mode	DTC
Active noise control unit	Active noise cancellation system and Active sound enhancement system function are deactivated.	B1F00
	DTC B1F05, B1F06, B1F07 and B1F20 is detected	U1010
Engine speed signal	Active noise cancellation system and Active sound enhancement system function are deactivated.	B1F01
	Active noise cancellation system and Active sound enhancement system function are deactivated	B1F05 U0100 U0140
CAN communication	Active sound enhancement system function is deactivated	B1F06 B1F20 U0155
	Active noise cancellation system and Active sound enhancement system are fixed to a standard mode.	B1F07 U0198
	DTC B1F05, B1F06, B1F07 and B1F20 is detected	U1000
Front microphone	Active paige concellation eveters function in departments	B1F0A
Rear microphone	Active noise cancellation system function is deactivated	B1F0F

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INFOID:0000000013498129

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^{*2:} For VR30 engine

< ECU DIAGNOSIS INFORMATION >

[INFINITI INTOUCH]

DTC Inspection Priority Chart

INFOID:0000000013498130

If multiple DTCs are detected simultaneously, check them one by one depending on the following DTC inspection priority chart.

Priority	Detected items (DTC)
1	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN) B1F00 ANC UNIT
2	B1F05: CAN SIG ERROR/DIAG B1F06: CAN SIG ERROR/ASC B1F07: CAN SIG ERROR/MODE SWITCHING B1F20: CAN SIG ERROR/ASC U0100: LOST COMM (ECM A) U0140: LOST COMM (BCM) U0155: LOST COMM (METER) U0198: LOST COMM (TCU)
3	B1F01: ENG SPEED SIG ERROR B1F0A: ANC MIC1/CONTROL UNIT B1F0F: ANC MIC2/CONTROL UNIT

DTC Index

ACTIVE NOISE CONTROL

DTC	CONSULT display	Reference
B1F00	ANC UNIT	AV-280, "DTC Description"
B1F01	ENG SPEED SIG ERROR	AV-282, "WITHOUT BOSE SYS- TEM: DTC Description"
B1F05	CAN SIG ERROR/DIAG	AV-286, "DTC Description"
B1F06	CAN SIG ERROR/ASC	AV-286, "DTC Description"
B1F07	CAN SIG ERROR/MODE SWITCHING	AV-286, "DTC Description"
B1F0A	ANC MIC1/CONTROL UNIT	AV-287, "DTC Description"
B1F0F	ANC MIC2/CONTROL UNIT	AV-292, "DTC Description"
B1F20	CAN SIG ERROR/ASC	AV-297, "DTC Description"
U0100	LOST COMM (ECM A)	AV-299, "DTC Description"
U0140	LOST COMM (BCM)	AV-301, "DTC Description"
U0155	LOST COMM (METER)	AV-303, "DTC Description"
U0198	LOST COMM (TCU)	AV-305, "DTC Description"
U1000	CAN COMM CIRCUIT	AV-308, "ACTIVE NOISE CONTROL UNIT : DTC Description"
U1010	CONTROL UNIT (CAN)	AV-309, "ACTIVE NOISE CONTROL UNIT : DTC Description"

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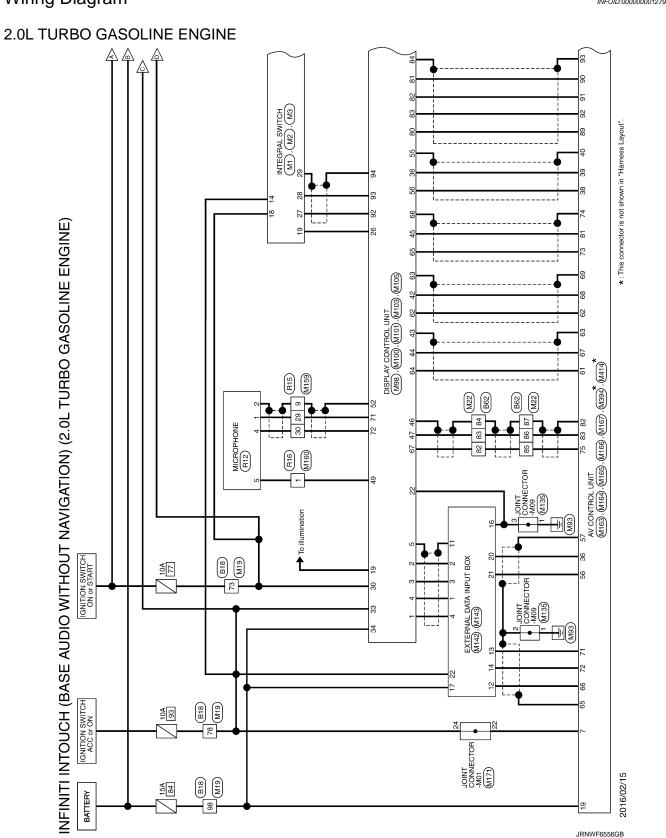
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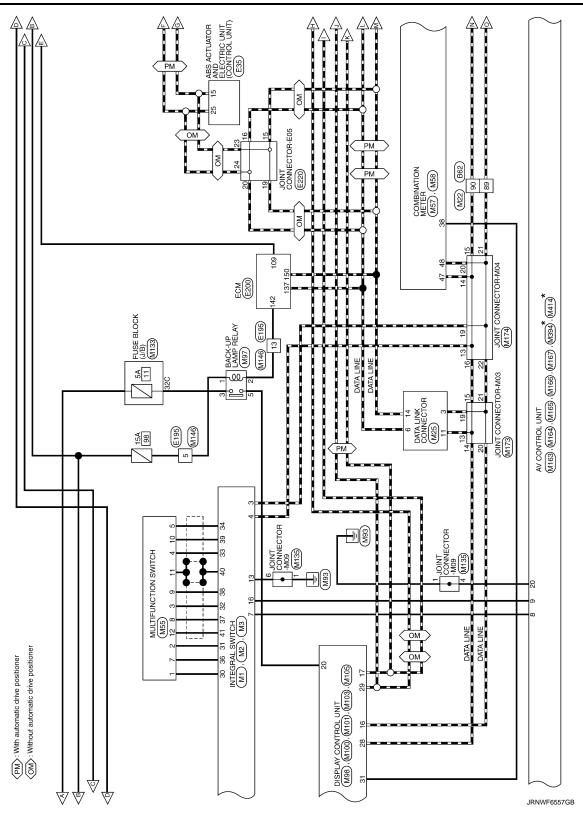
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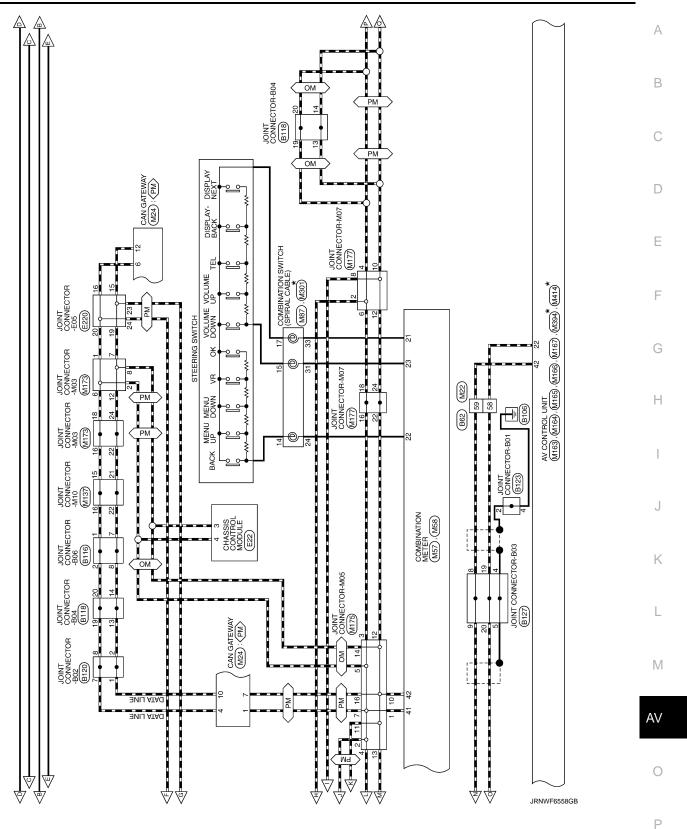
WIRING DIAGRAM

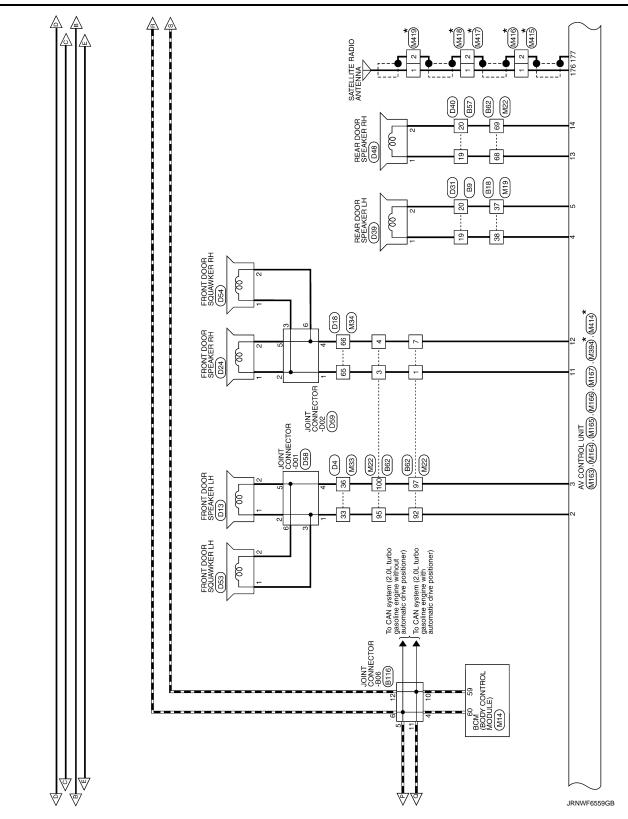
INFINITI INTOUCH (BASE AUDIO WITHOUT NAVIGATION)

Wiring Diagram INFOID:0000000012795570









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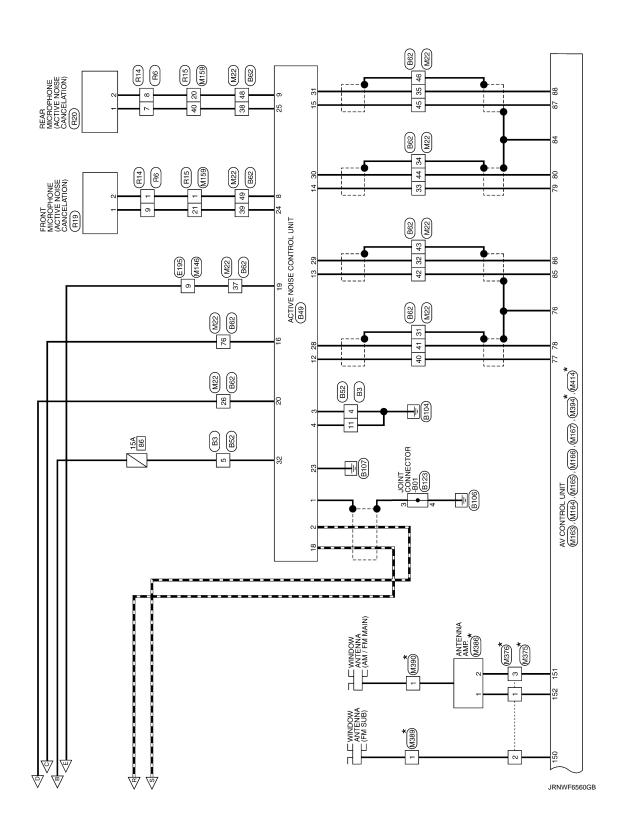
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Connector No.	19	9	- [Without BOSE system]	35			89		- [With VR30 engine]
	90	2 0	- [With BOSE exetorn]	33			9 5	+	(augus ocu augus)
Connector Name WIRE TO WIRE	20	: gs	- [Without BOSE system]	34 3	2 2		94	╀	
Connector Type NS16FW-CS				35	۵		96	>	
				36	*		97	>	
	Connector No.	o. B18		37	SB		86	BR	- [With VR30 engine and with BOSE system]
	Connector Name		WIRE TO WIRE	38	PI		86	>	- [Except with VR30 engine and with BOSE system]
3 5		П		40	Ь				
10 13 14 13 12 11 10 3 8	COLLINECTOL 19	٦	IHSURW-CSIB-IM4	14	2 8	41	9000	Connector No	040
	1			47	+		3	COL NO.	649
	卖		100 E	44	+		Conne	Connector Name	ACTIVE NOISE CONTROL UNIT
Color Of	H.S.		15 Zu	46	+		Conne	Connector Type	TH32EW-NH
Wire Signal Name [Specification]				2 05	+				
- 1			5 01 01 01 01 01 01 01 01 01 01 01 01 01	51	SB	•	Œ		
			þ	52	>	•			
BR - [With BOSE system]				23	9		ŽĮ.	ø,	
	Terminal Co	Color Of	9	54	œ				32 31 30 20 28 24 23 20 10 18
	No.	Wire	Signal Name [Specification]	55	~		_		
	1	*		22	Μ				
,	2	9		58	^				
В .	3	1		29	GR	•	Terminal	nal Color Of	Signal Name (Specification)
GR .	4	91		09	9		No.	Wire	officer regime (observing and or
. 9	2	Υ		19	9		1	SHIELD	
В	9	В		62	BG		2	Ь	CAN-L [For 2.0L turbo gasoline engine]
	7	^		63	BR	-	2	æ	CAN-L [For VR30 engine]
BR .	80	P]		64	>		~	8	ENGINE TYPE SIGNAL 1
	10	BG		99			4	8	ENGINE TYPE SIGNAL 2
	11	BG		20	œ		∞	g	FRONT MICROPHONE SIGNAL (+)
Connector No. 89	12	9]		71	≥		6	+	REAR MICROPHONE SIGNAL (+)
Connector Name WIRE TO WIRE	13	S.		72	8	-	12	+	SOUND SIGNAL FRONT LH (+)
- 1	14	~		2	>		13	+	SOUND SIGNAL FRONT RH (+)
Connector Type NH10FW-CS10	15	1		74	+	,	14	+	SOUND SIGNAL REAR LH (+)
	16	>	•	75	4	- [Without paddle shift]	15	4	SOUND SIGNAL REAR RH (+)
	18	>		75	+	- [With paddle shift]	16	>	ACC
6 5 4 3 2 1	19	BR		76	BR		18	٦	CAN-H
	20	>		17	+		19	\dashv	ENGINE SPEED SIGNAL
2 11 10	22	œ		78	SB		20	4	IGN
18 17 16 15 14	23	>		79	\dashv	- [With VR30 engine]	23	8	GND
	24	ď	- [With 2.0L turbo gasoline engine]	79	Α	- [With 2.0L turbo gasoline engine]	24	œ	FRONT MICROPHONE SIGNAL (-)
	24	,	- [With VR30 engine]	81	8		25	Μ	REAR MICROPHONE SIGNAL (-)
Color Of Sirve Manuel Specification	52	P - [Wit	- [With 2.0L turbo gasoline engine and without gateway]	82	R		28	1	SOUND SIGNAL FRONT LH (-)
Wire	25	V - [WF	- [With 2.0L turbo gasoline engine and with gateway]	83	BG		29	7	SOUND SIGNAL FRONT RH (-)
. 91	25	w	- [With VR30 engine]	84	٦		30	Ь	SOUND SIGNAL REAR LH (-)
. 91	56	9		82	ч	- [Without paddle shift]	31	W	SOUND SIGNAL REAR RH (-)
R .	27	R		85	^	- [With paddle shift]	32	×	BAT
	28	ĸ	•	98	8				
	31	В	- [With VR30 engine]	88	9				
BR - [With BOSE system]	31	BR	- [With 2.0L turbo gasoline engine]	- 89	>	- [With 2.0L turbo gasoline engine]			

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< WIRING DIAGRAM > [INFINITI INTOUCH]

INFINITI	INFINITI INTOUCH (BASE AUDIO WITHC	1N TUC	WIGAT	WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE)	IE ENGIN	E)				
Connector No.	852	Connector No	tor No.	862	22	۸		61	L	
Connector Name	WIRE TO WIRE	Janua	Connector Name	WIRE TO WIRE	23	W	•	62	Ь	- [With VR30 engine]
COIIIIECTOI MAIIIE	WINE IO WINE		io ivalle	WINE IO WINE	24	BG	- [With 2.0L turbo gasoline engine]	62	۸	- [With 2.0L turbo gasoline engine]
Connector Type NS16MW-CS	NS16MW-CS	Connec	Connector Type	TH80FW-CS16-TM4	24	۸	- [With VR30 engine]	63	7	
		C			25	7	- [With 2.0L turbo gasoline engine]	64	W	
E		E			25	SB	- [With VR30 engine]	99	91	
¥		•		10 10 10 10 10 10 10 10 10 10 10 10 10 1	26	9	- [With VR30 engine]	89	1	
Ĉ.	1 2 3 - 4 5 6 7	4	<u>,</u>		56	Α	- [With 2.0L turbo gasoline engine]	69	۵	
	8 9 10 11 12 13 14 15 16				27	œ		7.1	GR	- [With 2.0L turbo gasoline engine]
				用 (名) 日 (日) 日 (日) 日 (日) 日 (日) 日 (日)	29	97		71	~	- [With VR30 engine]
				þ	30	97	- [With 2.0L turbo gasoline engine]	72	9	- [With VR30 engine]
					30	Р	- [With VR30 engine]	72	Υ	- [With 2.0L turbo gasoline engine]
lal	Of Signal Name (Specification)	Terminal	al Color Of	f Signal Name (Specification)	31	SHIELD		73	ч	- [With 2.0L turbo gasoline engine]
No. Wire		No.	Wire		32	L		73	SHIELD	- [With VR30 engine]
1 L		1	BR	- [With 2.0L turbo gasoline engine and without BOSE System]	33	В	- [With VR30 engine]	74	BG	- [With 2.0L turbo gasoline engine]
4 B		1	PI	- [With VR30 engine]	33	ΓC	- [With 2.0L turbo gasoline engine]	74	7	- [With VR30 engine]
5 BR	- [With BOSE system]	1	W	- [With 2.0L turbo gasoline engine and with BOSE system]	34	SHIELD		75	GR	- [With 2.0L turbo gasoline engine]
2	- [Without BOSE system]	2	٦	- [With VR30 engine]	35	91	- [With VR30 engine]	75	^	- [With VR30 engine]
7 R		2	SHIELD	. [With 2.0L turbo gasoline engine]	35	Μ	- [With 2.0L turbo gasoline engine]	9/	GR	- [With VR30 engine]
8 SHIELD	-	e	BR.	- [With 2.0L turbo gasoline engine]	36	œ	- [With VR30 engine]	76	>	- [With 2.0L turbo gasoline engine]
T		m	œ	- [With VR30 engine and with BOSE system]	36	W	- [With 2.0L turbo gasoline engine]	77	а	
11 B		m	>	- [With VR30 engine and without BOSE system]	37	Ь	- [With 2.0L turbo gasoline engine and without BOSE system]	78	_	,
12 GR		4	SHIELD	⊢	37	ж	- [With VR30 engine]	79	æ	
H	,	4	>	- [With 2.0L turbo gasoline engine]	37	>	- [With 2.0L turbo gasoline engine and with BOSE system]	80	ğ	- [With 2.0L turbo gasoline engine]
14 B		S	o	- [With VR30 engine]	38	Μ		80	×	- [With VR30 engine]
15 W		S	>	- [With 2.0L turbo gasoline engine]	39	۵	- [With VR30 engine and without BOSE system]	81	В	- [With VR30 engine]
16 BR		9	BG	- [With VR30 engine]	39	œ	- [With 2.0L turbo gasoline engine]	81	œ	- [With 2.0L turbo gasoline engine]
		9	BR	- [With 2.0L turbo gasoline engine]	39	Μ	- [With VR30 engine and with BOSE system]	82	9	- [With 2.0L turbo gasoline engine]
		7	60	- [With 2.0L turbo gasoline engine and with BOSE system]	40	o		82	SHIELD	- [With VR30 engine]
Connector No.	857	7	BR	- [With VR30 engine and without BOSE system]	41	7		83	æ	- [With 2.0L turbo gasoline engine]
	LOTTE CA LOTTE	7	*	- [With VR30 engine and with BOSE system]	42	œ		83	Ν	- [With VR30 engine]
Connector Name		7	>	- [With 2.0L turbo gasoline engine and without BOSE System]	43	SHIELD		84	BR	- [With VR30 engine]
Connector Type	NH10FW-CS10	∞	8	- [With VR30 engine and with BOSE system]	44	Ь		84	SHIELD	- [With 2.0L turbo gasoline engine]
		00	9	- [With 2.0L turbo gasoline engine]	45	8	 [With 2.0L turbo gasoline engine] 	85	BG	- [With VR30 engine]
B		∞	*	- [With VR30 engine and without BOSE system]	45	9	- [With VR30 engine]	85	9	- [With 2.0L turbo gasoline engine]
Ę	6 5 4 3 2 1	6	91	- [With 2.0L turbo gasoline engine]	46	SHIELD		98	ж	- [With 2.0L turbo gasoline engine]
Ċ.		6	SHIELD	- [With VR30 engine]	47	9		98	W	- [With VR30 engine]
	13 12 11 10 9	10	>		48	98		87	97	- [With VR30 engine]
	/ 18 17 16 15 14 0	11	GR		49	9		87	SHIELD	- [With 2.0L turbo gasoline engine]
		12	>	•	20	^		88	97	•
		13	В		51	GR		90	Ь	- [With 2.0L turbo gasoline engine]
Terminal Color Of	JC Signal Manua Consideration	14	BG		25	Μ	- [With 2.0L turbo gasoline engine]	06	۸	- [With VR30 engine]
No. Wire		15	9BG	- [With 2.0L turbo gasoline engine]	25	٨	- [With VR30 engine]	92	7	- [With 2.0L turbo gasoline engine]
1 16		15	GR	- [With VR30 engine]	53	В		92	W	- [With VR30 engine]
2 W	1	16	>		24	GR		93	œ	- [With VR30 engine]
3 R		17	Ь		55	٦		66	SHIELD	- [With 2.0L turbo gasoline engine]
۷ /	•	18	7		99	^		94	ч	•
7 B		19	R		57	R		95	7	- [With 2.0L turbo gasoline engine]
19 L		20	GR		28	97		92	>	- [With VR30 engine]
20 P		21	œ		29	Ь		96	œ	- [With 2.0L turbo gasoline engine]

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NFINITI IN	\circ	NT NA	VIGAT	NO	E ENGIN	E)	- [With 2.0L turbo gasoline engine]	10		- [With 2.0L turbo gasoline engine]
97 L	- [With VR30 engine]	18	SHIELD	- [With 2.0L turbo gasoline engine]	12	SHIELD	- [With VR30 engine]	10	ď	- [With VR30 engine]
97 R	- [With 2.0L turbo gasoline engine and with BOSE system]	19	1	- [With 2.0L turbo gasoline engine]	13	1	- [With VR30 engine]	11	В	
\dashv	- [With 2.0L turbo gasoline engine and without BOSE system]	19	SHIELD		13	۵	- [With 2.0L turbo gasoline engine and without gateway]	12	œ	
-		20	_	- [With	13	æ	- [With 2.0L turbo gasoline engine and with gateway]	13	≽	
\dashv	- [With VR30 engine and with BOSE system]	20	SHIELD	- [With VR30 engine]	14	٦	- [With VR30 engine]	14	≽	
+	 [With 2.0L turbo gasoline engine] 	21	-		14	۵	- [With 2.0L turbo gasoline engine and without gateway]	15	≽	
\dashv	- [With VR30 engine and without BOSE system]	22	۵		14	œ	- [With 2.0L turbo gasoline engine and with gateway]	17	SHIELD	
\dashv	- [With VR30 engine]	23	_		15	٦	- [With VR30 engine]	18	a	
100 W	- [With 2.0L turbo gasoline engine]	24	۵	- [With VR30 engine]	15	œ	 [With 2.0L turbo gasoline engine] 	19	9	 [With 2.0L turbo gasoline engine]
		24	>	- [With 2.0L turbo gasoline engine]	16	٦		19	R	- [With VR30 engine]
					17	_		20	R	- [With VR30 engine]
Connector No.	B116				18	٦		20	SHIELD	 [With 2.0L turbo gasoline engine]
Connector Name	JOINT CONNECTOR-B06	Connector No.	or No.	8118	19	_	- [With 2.0L turbo gasoline engine]	21	8	- [With 2.0L turbo gasoline engine]
		Connect	Connector Name	IOINT CONNECTOR-B04	19	SHIELD	- [With VR30 engine]	21	GR	- [With VR30 engine]
Connector Type	24342_4GA2A				20	_	- [With 2.0L turbo gasoline engine]	22	≥	
		Connect	Connector Type	24342_4GA2A	20	SHIELD	- [With VR30 engine]	23	Μ	,
B		ģ			21	٦	- [With 2.0L turbo gasoline engine]	24	≥	-
V E	5 4 3	彦			21	SHIELD	- [With VR30 engine]			
2	11 10 9 8 7	Ě		გ 4	22	œ				
	17 16 15 14 13			12 11 10 9 8 7	23	Я		Connector No.	r No.	B123
	24 23 22 21 20 19			15 14	24	æ		Occupied Name	o Money	POS BOTOSINICO INICI
				24 23 22 21 20 19				מוווווווווו	alle Indile	JOHN CONNECTOR BOT
								Connector Type	r Type	TK04FW-J
lal	Signal Name [Specification]				Connector No.	r No.	B120	ą		
No. Wire	(incompanie) among magne	Terminal	<u> </u>	Signal Name (Specification)	Connector Name	r Name	JOINT CONNECTOR-802	唐		
1 L		O	Wire	,						
2 L		1	9		Connector Type	r Type	24342_4GA2A	i i		0 4 3 2 1 0
3		-	SHIELD	- [With	Q					
4		2	9	_	昼					
2 r	1	2	SHIELD	- [With 2.0L turbo gasoline engine]			5 4 3			
J 9		m	SHIELD		11.2		11 10 9 8			
1	1	4	9				17 15 14	Terminal	_	Signal Name (Specification)
œ	- [With Gateway]	4	SHELD	- [With			24 23 22 21 20 19	No.	Wire	
>	- [Without Gateway]	2	97					1	SHIELD	
9 R	- [With Gateway]	S	SHIELD	- [With				2	SHIELD	
^	- [Without Gateway]	9	9	- [With VR30 engine]	Terminal	Color Of	Ciani Namo [Caocification]	9	8	- [With 2.0L turbo gasoline engine]
10 R	- [With VR30 engine]	9	SHIELD	- [With 2.0L turbo gasoline engine]	No.	Wire	oignal value [openiication]	3	SHIELD	- [With VR30 engine]
10 V	- [With 2.0L turbo gasoline engine]	7	~	- [Color of wire differs depending on production]	1	œ		4	8	
11 V		7	>	- [Color of wire differs depending on production]	2	œ				
12 P	- [With Gateway]	œ	97	- [With 2.0L turbo gasoline engine]	8	٦	- [With VR30 engine]			
12 R	- [Without Gateway]	∞	~	- [With VR30 engine and without paddle shift]	т	œ	- [With 2.0L turbo gasoline engine]			
13 SHIELD		∞	>	- [With VR30 engine and with paddle shift]	4	_	- [With VR30 engine]			
14 SHIELD		6	9	- [With 2.0L turbo gasoline engine]	4	~	- [With 2.0L turbo gasoline engine]			
15 B	- [With 2.0L turbo gasoline engine]	6	œ	- [With VR30 engine and without paddle shift]	S	_				
15 SHIELD		6	>	- [With VR30 engine and with paddle shift]	9	_				
t	- [With VR30 engine]	9	9	- [With 2.0L turbo gasoline engine]	7	_				
16 SHIELD	- [With 2.0L turbo gasoline engine]	10	SHIELD		∞	٦				
17 L	- [With VR30 engine]	11	91	- [With 2.0L turbo gasoline engine]	6	_	- [With 2.0L turbo gasoline engine]			
17 SHIELD	- [With 2.0L turbo gasoline engine]	11	SHIELD	- [With VR30 engine]	6	æ	- [With VR30 engine]			

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< WIRING DIAGRAM > [INFINITI INTOUCH]

	А
Signal Name (Specification)	В
WINE TO NHGOFW	С
Connector No. Connector Name Connector Name Connector Name Connector Name Connector Name Terminal Color Of No. Vire 1 0 R 1 0 R 1 1 0 R 1 1 1 1 1 1 0 R 1 1 4 R 1 1 4 R 1 1 4 R 1 1 4 R 1 1 4 R 1 1 1 1 1 0 R 1 1 1 1 1 0 R 2 2 C 2 1 0 C 2 2 R 3 0 C 2 2 C 3 0 C 3 0 C 4 2 S 5 8 W 5 8 W 6 6 V 7 1 6 R 8 18 W 8 W 1 1 4 R 8 R 1 1 4 R 8 R 1 1 4 R 8 R 1 1 4 R 8 R 1 1 4 R 8 R 1 1 4 R 8 R 1 1 4 R 8 R 1 1 4 R 1 1 7 R 1 1 1 C 1 1 C 1	D
Color of wire differs depending on production	E
- (Color of wire differs dependent of the color of the co	F
	G
NGINE 1	
	Н
THOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE) Connector Name Wife TO Wife 41 41 41 42 43 44 44 44 44 44 44	1
WIRE TO WIRE NH60FW-1512 Signal Name Signa	J
Connector Name Connec	K
Connector No. Co	
	L
CH (BASE AUDIO W CONNECTOR-B03 G-OC G-OC G-OC	
Signal Name Specification Signal Lutro gasoline engl	M
Connector No. 8127 Connector No. 8127 Connector No. 8127 Connector Name Long Connector Name	AV
NETIN INT INT Connector Name C	710
NFIN Commettor	0
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	Р

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Connector No. 054 Connector Name FRONT DOOR SQUAWKER RH CONNECTOR TYOZFBR TXOZFBR	Terminal Color Of Signal Name Specification No. Wire No. Wire Signal Name Specification Signal Name Specification		5	4 GR - "Witch BOSE system] 5 GR - [Without BOSE system] 5 Y - [With BOSE system] 6 GR - [Without BOSE system] 6 GR - [Without BOSE system] 7 - [With BOSE system]
Connector No. Dust Connector Name REAR DOOR SPEAKER RH Connector Type NSO2FW-C5 A.S. A.S	Terminal Color Of Signal Name Specification No. Wine Signal Name Specification 1 R - [With BOSE system] 2 BR - [With BOSE system] 2 L - [Without BOSE system] 3 L - [Wit	Connector No. D53 Connector Name FRONT DOOR SQUAWKER LH Connector Type TKO2F8R	Terminal Color Of Signal Name Specification No. Write Wire 2 GR	
WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE) Connector No. D39 Connector Name REAR DOOR SPEAKER LH Connector Type NSQ3FW-C5 MAS. H.S. H.S.	Terminal Color Of Signal Name [Specification] No. Whre Signal Name [Specification] 1 P - [With BOSE system] 1 R - [With BOSE system] 2 BR - [With BOSE system] 2 L - [Without BOSE system]	Connector No. Dulo Connector Type NH10MW.CS10 1 2 3 1 4 5 6 7 8 9 10111213 19 20	Terminal Color Of Signal Name [Specification] No. Write Signal Name [Specification] No. Write No. Write No. No. No.	19
INFINITI INTOUCH (BASE AUDIO WITHO	Connector Type NSOZFW-CS	5	(1) 2 3 4 5 6 7 8 910111213 19 20	Terminal Color Of Signal Name Specification No. Wire No. No.

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< WIRING DIAGRAM > [INFINITI INTOUCH]

Mail Mail	8 01	W CHASSIS COMM-L BG IGN With 2.01 turbo easoline engine	Connector No.	0.	E195	46	>	,
12	Н	Н	Connector Name	e	WIRE TO WIRE			
	11		Connector Type	П	TK36FW-N510	Connector No.	П	E200
;	+	9	E			Connector Name	0)	ECM
	+	BR CHASSIS COMM-H [With VR30 engine]	N N			Connector Type	٦	ADA52FB-AHZ6
4 3 2 1	23	L CHASSIS COMMAH (With 2.01 turbo gasoline engine) G ESS RELAY [With YR30 engine] R ESS RELAY [With 2.01 turbo gasoline engine]				優 S.H.S.		
								100
Signal Name [Specification]	Connector No.	П	Terminal	Color Of	Signal Name [Specification]		_	95 198 18 18 18 18 18 18 1
- [With BOSE system]	Connector Name	ne ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	5	æ				
- [Without BOSE system]	Connector Type	e SAZ30FB-SJZ4-U	8	GR		Terminal	Color Of	Constitution Counting
- [With BOSE system]			6	۵		No.	Wire	Jignal Name (Specification)
- [Without BOSE system]			10	×		- 6	9	POWER SUPPLY (MAIN)
- [With BOSE system]	Ě	7 25 28 30 32 34 7	11	٦		86	В	ECM GROUND
- [Without BOSE system]	2	5 15 17 18 19 20 1 7	12	Ь		66	9	POWER SUPPLY (MAIN)
- [Without BOSE system]		1 5 7 9 9 10 10 3	13	B.		100	В	ECM GROUND
- [With BOSE system]		01607	14	>		101	9	POWER SUPPLY (MAIN)
- [Without BOSE system]			15	g		102	В	ECM GROUND
- [With BOSE system]			16	>		103	>	COOLING FAN CONTROL SIGNAL (PWM)
- [Without BOSE system]	Ja.	Color Of Signal Name (Specification)	17	٦		104	>	SENSOR POWER SUPPLY
- [With BOSE system]	No.	e)	18	~		105	ď	SENSOR POWER SUPPLY
	1		19	æ		106	≥	SENSOR GROUND
	2	+	20	SHELD		109	۵	ENGINE SPEED SIGNAL
	ς,	+	77	ž :		111	9	POWER SUPPLY
CHASSIS CONTROL MODULE	m	P VALVE BATTERY [With 2.0L turbo gasoline engine]	22 22	> }		116	9 8	STARTER RELAY-L
	+	STOPLAN	24	: -		120	£ 2	SENSOR GROUND
	╀	ļ	25	ی		123	8	MAIN RELAY CONTROL SIGNAL
	7	GR RR LH WHEEL SENSOR SIGNAL	56	U		127	>	FUEL PUMP ON SIGNAL
7	00	RR	30	>		132	9	ACCELERATOR PEDAL POSITION SENSOR 1
6 7 8 101112	6	BR FR RH WHEEL SENSOR SIGNAL	31	GR.		137		CAN-H
10	10	GR FR RH WHEEL SENSOR POWER SUPPLY	32	SB		138	_	DRIVETRAIN CAN-H
	13	R VACUUM SENSOR SIGNAL	33	Μ		142	GR	BACK-UP LAMP SWITCH
	15	P CAN-L [Without Gateway]	34	Μ		143	91	REFRIGERANT PRESSURE SENSOR
	15	R CAN-L [With gateway]	35	8	•	145	٦	ACCELERATOR PEDAL POSITION SENSOR 2
Control Name (Contribution)	17	Y RR RH WHEEL SENSOR SIGNAL	36	9		146	7	FUEL TANK PRESSURE SENSOR
[specification]	18	LG RR RH WHEEL SENSOR POWER SUPPLY (With 2.01 turbo gasoline angine)	37	SHIELD		148	7	STARTER RELAY-H
thout Gateway]	18	V RR RH WHEEL SENSOR POWER SUPPLY [With VR30 engine]	38	ď		150	۵	CAN-L
CAN-L [With Gateway]	┝	SB FR LH WHEEL SENSOR SIGNAL	39	_		151	۵	DRIVETRAIN CAN-L
CAN-H	Н	BG FR LH WHEEL SENSOR POWER SUPPLY	40	GR	1	152	8	EVAP CANISTER VENT CONTROL VALVE
DRIVE MODE SELECT SWITCH (UP) [With VR30 engine]	25	L CAN-H	41	*		153	9	EVAP PURGE CONTROL VALVE
DRIVE MODE SELECT SWITCH (UP) [With 2.0t turbo gasoline engine]	28	G VACUUM SENSOR POWER SUPPLY	42	80				
DRIVE MODE SELECT SW (DOWN) [With 2.0L turbo gasoline engine]	30	R VDC OFF SW SIGNAL	43	BB				
Dougle NACOS CELECT CIA/ (DONAMINATED VIDEO	33	CHIELD VACILITY SENSOR GROTIND	77	٠				
W (DOWN) WITH WASO SHEET			1					

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< WIRING DIAGRAM > [INFINITI INTOUCH]

INTOUCH (BASE AUDIO	UT NAVIGA	WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE)	E ENGIN					
T	13 B	1	3/	> c	ENCD-A SIGNAL	Connector No.		MI9
Connector Name JOINT CONNECTOR-E05	+	ACC [For VB30 pagine]	000	9 a	PLISH SWITCH SIGNAL	Connecto	Connector Name	WIRE TO WIRE
Connector Town	$^{+}$		3 8		TOTAL CHIEF	Connector Time	Time	TI DOOR AND COAC TAKE
Т	+	1	40	۵ -	I /B DETECTION SIGNAL	2011102	, Apr	HOUNIWY-CSTO-TIME
Œ	+		ř	,	לאים ברוכווסו אסוטב	QĮ.		
E 17	18	IGN IE				事		300
1.5	+	+	Connector No		M14	1.50 1.50		
	$^{+}$	1		Ī				20455 SSB64 20455 SSB64
22 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	70 [6	$\frac{1}{1}$	Connector Name		BCM (BODY CONTROL MODULE)			
			Connector Type	Г	TH40FB-NH			
	Connector No.	M2		1				
Terminal Color Of		Γ	Œ			Termina	Color Of	
	Connector Name	INTEGRAL SWITCH	卖			Š		Signal Name [Specification]
t	Connector Type	Tvco 1554987-6	S			-	>	
4						2	g	
	1			2		m	88	,
						4	BR	
11 w	S.					S	>	
		27 28	Terminal	Color Of	3	9	œ	,
15 P - [Without Gateway]		g	Š	Wire	Signal Name [Specification]	_	×	
. «		â	48	œ	PUSH-BTN IGN SW ILL PWR		>	
-			5	Ŀ	DONGLETINK	10	B.G.	
10 D (Mithout Cataurus)	Torminal Color Of	L	50	>	CONTRACTOR	7	8	
		Signal Name [Specification]	5	> c	COMIN CINC	17	5	
٤.	+		3	٤ ،	MACIN SCINSON	7 0	2 8	
	+		65		CAN-L	FT ;	ž 4	
·	+		9	_,	CAN-H	14	¥ .	
23 R - [With Gateway]	29 SHIELD	D SHIELD	61	o	REAR WINDOW DEF RLY CONT	12	-	
24 L -			62	œ	STARTER RLY CONT	16	>	
			99	>	I-KEY WARN BUZZER	188	≥	
	Connector No.	M3	65	В	OUTS HD LAMP CONT	19	BR	
Connector No. M1	Connector Name	INTEGRAL SWITCH	99	<u>в</u>	BLOWER FAN RLY CONT [With VR30 engine]	50	≥	
Connector Name INTEGRAL SWITCH		П	99	┪	BLOWER FAN RLY CONT [With 2.0L turbo gasoline engine]	22	SB	
\neg	Connector Type	TH12FW-NH	49	W/B	IGN RLYAY (F/B) CONT	23	œ	,
Connector Type TH24FW-NH	q		89	ď	DIMMER	24	ď	 [With 2.0L turbo gasoline engine]
d	唐		69	gR	A/T SHIFT SELECT PWR SPLY	24	>	- [With VR30 engine]
	Ě	_ / \ -	70	В	IGN RLYAY (IPDM E/R) CONT	25	Ь	- [With 2.0L turbo gasoline engine]
	21	30 31 32 33 34	7.1	G	DR DOOR REQ SW	22	×	- [With VR30 engine]
234 78		100000000000000000000000000000000000000	72	SB	PASS DOOR REQ SW	56	9	
18 19		3/ 30 39 40	75	BR	COMBI SW INPUT 5	27	Я	•
1			9/	98	COMBI SW INPUT 4	28	æ	
			77	>	COMBI SW INPUT 3	31	BR	
	Terminal Color Of	Of Simpl Name (Specification)	78	*	COMBI SW INPUT 2	32	В	
Terminal Color Of Signal Name (Specification)	No. Wire		79	97	COMBI SW INPUT 1	33	В	
No. Wire Signal Marine [Specification]	30 BR	III	80	_	TR LID OPNR SW	34	>	
2 R ILLUMINATION SIGNAL	31 W	GND				32	Ь	
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V V SS LG GR Y PS LG LG <td>V V V V SS IG SS IG SS IG SS IG SS IG SS IG IG</td> <td>V V CR CR<td>V V CR SS LG CR BR - [Wirth WR30 engine and with BOSE system] 22 V - [Size of the control of t</td><td></td><td></td><td>13</td><td>o</td><td></td><td>57</td><td>œ</td><td></td><td>95</td><td>_</td><td>- [With 2.0L turbo gasoline engine]</td></td>	V V V V SS IG SS IG SS IG SS IG SS IG SS IG	V V CR CR <td>V V CR SS LG CR BR - [Wirth WR30 engine and with BOSE system] 22 V - [Size of the control of t</td> <td></td> <td></td> <td>13</td> <td>o</td> <td></td> <td>57</td> <td>œ</td> <td></td> <td>95</td> <td>_</td> <td>- [With 2.0L turbo gasoline engine]</td>	V V CR SS LG CR BR - [Wirth WR30 engine and with BOSE system] 22 V - [Size of the control of t			13	o		57	œ		95	_	- [With 2.0L turbo gasoline engine]
RR - [Nixth VR30 engine and with BOSE system] 21 R 61 L L With VR30 engine and with BOSE system] 95 R 96 R Y - [Except with VR30 engine and with BOSE system] 22 V - [With 2 Ot turbo gasoline engine] 62 P - [With VR30 engine] 97 L 24 V - [With 2 Ot turbo gasoline engine] 63 L - [With VR30 engine] 97 R 25 L - [With 2 Ot turbo gasoline engine] 64 W W 99 BR	RR -[Ivith VR30 engine and with BOSE system] 21	RR -[With VR30 engine and with BOSE system] 21	BR - [With VR30 engine and with BOSE system] 21 R R - [With VR30 engine] 59 58 SB Y - [Except with VR30 engine] 23 L - [With VR30 engine] 62 V - [With VR30 engine] 24 W - [With VR30 engine] 62 V - [With VR30 engine] 25 L - [With VR30 engine] 63 L - [With VR30 engine] 25 L - [With LA.2.0.1 Lurbo gasoline engine] 64 W	L		50	S.		85	9		95	>	- [With VR30 engine]
V -[swept with Vabo regime and with BOSE System] Z	V Except with VR30 engine and with BOSE System) 23	V Except with VRDs origine and with BOSE bystem)	V -[Except with VR30 engine and with BOSE system] 22 V - 23 L - 24 V - 25 L - 25 L - 26 With 2.0L turbo gasoline engine] 64 W 27 With 3.0 engine] 64 W 28 With 2.0L turbo gasoline engine] 64 W 29 With 2.0L turbo gasoline engine] 64 W 20 With 2.0L turbo gasoline engine] 64 W 20 With 2.0L turbo gasoline engine] 64 W 21 With 3.0L turbo gasoline engine] 64 W 22 With 3.0L turbo gasoline engine] 64 W 23 With 3.0L turbo gasoline engine] 64 W 24 With 3.0L turbo gasoline engine] With 3.0L turbo gasoline engine] 64 W 25 With 3.0L turbo gasoline engine] 64 W 26 With 3.0L turbo gasoline engine] With 3.	ł	Mith Wood oring bar oring Octob Hill	21	٥		g	8		ď	٥	Contract of the Contract of th
V	V Except with VR30 engine and with BOSE system) Z2 V V Except with VR30 engine Z4 BG - (With 2.0.1 turbo gasoline engine) G2 P - (With 2.0.1 turbo gasoline engine) G3 L - (With X.0.1 turbo gasoline engine) G4 W S9 BR S9 BR S9 S9 S9 S9 S9 S9 S9 S	V - Except with VR30 engine and with BOSE system)	V - Except with VMSG engine and with BOSE system) 23	¥ :	- [with was eligine and with boar system]	17	: ۱		e i	g .		06	٤ ;	- [with 2.0t tubo gasonine engine]
1	1 1 201 Lurbo gasoline engine 62 P - With 2.01 Lurbo gasoline engine 64 W 99 88 88 88 88 88 88	1	1 1 1 1 1 1 1 1 1 1	>	 [Except with VR30 engine and with BOSE system] 	22	>		19	_		96	≷	- [With VR30 engine]
BG - (With 2.01 Lurbo gasoline engine)	BG - VWith 20 Lurbo gasoline engine 62 V - VWith W30 engine 97 R V [With 730 engine 64 W - V V - [With 2.0 Lurbo gasoline engine 64 W - V With 2.0 Lurbo gasoline engine 64 W - V With 2.0 Lurbo gasoline engine 64 W - V Sa	86 - Winth 20 Lunto gasoline engine 63 V - With 120 Congine 97 R R R R R R R R R	BG - (With 2.0 t Lurbo gasoline engine)			23	_	•	62	۵	- [With 2.0L turbo gasoline engine]	46	_	- [With VR30 engine]
V - (With VR30 engine) 63 L - 98 8R 1 - (With 2.0 Lurbo gasoline engine) 64 W - 99 8R	V - : [With VR30 engine] 63 L - : 98 BR L - [With 2.0! turbo gasoline engine] 64 W - : 99 BR	V - [With VR30 engine] 63 L - 99 BR L - [With 2.01 turbo gasoline engine] 64 W - 99 BR	V - [With XR30 engine] 63 L . L - [With 2.0! turbo gasoline engine] 64 W .			24	BG	- [With 2.0L turbo gasoline engine]	62	>	- [With VR30 engine]	97	œ	- [With 2.0L turbo gasoline engine]
1 - [With 2.0t turbo gasoline engine] 64 W - 99 BR	L - With 2 0L turbo gasoline engine) 64 W - 99 BR	L - (With 2 0L turbo gasoline engine) 64 W - 99 BR	[With 2.01 turbo gasoline engine] 64 W .			24	>	- [With VR30 engine]	63	-		86	æ	
et w Twinz.ou.tuno.gesome.engine	ed w Pa Geome engine 1 1 1 1 1 1 1 1 1	ed w Page Georgia Geor	. With Zul Luroo gasoline engine)			17		Carrier and Architecture	3			8	s s	Lacor training
						52	_	 [With 2.0L turbo gasoline engine] 	64	≥		66	æ	- [With VR30 engine and with BOSE syste

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INFINITI INTOUCH (BASE AUDIO WITHO	UT NA	VIGAT	WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE)	E ENGII	VE)				
Ь	9	-	CAN-H	25	1	- [With DRPO]	Connector No.		M34
Y - [With	7	>	KLINE [With 2.0L turbo gasoline engine]	26	>		,		
100 BR - [With VR30 engine]	^	>	KLINE [With VR30 engine]	27	æ		Connect	d)	WIRE TO WIRE
100 W - [With 2.0L turbo gasoline engine]	∞	*	IGN_SW	78	>		Connector Type		NH60MW-TS12
	11	SB	M_CAN_H	29	В				
	12	æ	CAN-L	30	Μ		ß		
Connector No. M24	13	1	CAN-H	31	В				20 20 20 20
CAN CATEMAN	14	Ь	CAN-L	32	SB		Ş		14710136182233
Connector Name CAN GALEWAY	16	×	POWER	33	٦	٠		-	3 6 9 12 15 18 27 28 28 28 28 28 28 28 28 28 28 28 28 28
Connector Type TH12FW-NH				34	BR.				1
ſ				35	L				
	Connector No.	or No.	M33	36	>				
			0.000	37	8		Terminal	I Color Of	3
1 2 4 5	Connect	Connector Name	WIRE IO WIRE	40	а		No.	Wire	Signal Name [Specification]
) †	Connector Type	ı	NH60MW-TS12	41	SB		7	>	
7 9 10 11 12		ı		43	>	- [Except with VR30 engine and without ISS]	2	œ	
	Œ			43	╀	- [With VR30 engine and without ISS]	4	9	- [With DRPO]
				44	BG		4	SB	- [Without DRPO]
Terminal Color Of	Ź		1 4 7 10 13 16 12 13 13 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	46	H		S	_	
No. Wire Signal Name [Specification]			3 6 9 12 15 19 12 12 13 13 13 13 13 15 13 14 17 13 13 13 13 13 13 13 13 13 13 13 13 13	47	g		9	œ	
1 L CAN-H (CAN COMMUNICATION CIRCUIT 1)			ı	49	>		7	Ж	
3 W BATTERY POWER SUPPLY				20	8		∞	>	
4 L CAN-H (CAN COMMUNICATION CIRCUIT 2)				52	BR		6	GR	
5 B GROUND	Terminal	I Color Of		23	m		10	>	
6 L CAN-H (CAN COMMUNICATION CIRCUIT 2)	No.	Wire	olgilal Nallie [opecilication]	55	BG		11	٨	
7 P CAN-L (CAN COMMUNICATION CIRCUIT 1)	2	>		29	91		13	97	
9 R IGNITION POWER SUPPLY [With VR30 engine and without ISS]	4	g		22	>		14	Α	
9 W IGNITION POWER SUPPLY (Except with VR30 engine and without ISS)	5	9		28	~		16	9	
10 R CAN-L (CAN COMMUNICATION CIRCUIT 2)	9	œ		59	g		17	8	
11 B GROUND	7	œ		9	_		18	M	
12 R CAN-L (CAN COMMUNICATION CIRCUIT 2)	00	æ		61	G		19	8	
	6	GR		62	R		20	SB	- [With DRPO]
	10	Μ		63	۸		20	γ	- [Without DRPO]
Connector No. M25	11	SHIELD		64	8		21	SHIELD	
Connector Name DATA LINK CONNECTOR	12	Ь		9	В		22	В	
	13	SB		99	BR		23	BG	- [Without DRPO]
Connector Type BD16FW	14	PI		89	Ь		23	Ь	- [With DRPO]
Ĺ	15	λ		69	۸		24	9	
	16	>		70	۸		25	91	
1 1/10/10/10/10	17	Ь		7.1	91	•	52	BG	- [Without DRPO]
11 12 13 14 16 \	18	W/B		72	>		56	BR	- [With DRPO]
3 4 5 6 7 8	13	9	- [With DRPO]				27	ď	
	19	>	- [Without DRPO]				28	SB	
	50	>					59	98	- [Without DRPO]
	21	m					53	M/B	- [With DRPO]
Terminal Color Of	22	BG	- [Without DRPO]				30	-	
No. Wire Signal Name [Specification]	22	o	- [With DRPO]				49		
t	23	_					52	>	
	24	>					55		
ł	25	- B	- [Without DRPO]				35	s es	
,	ì	,	fa and in tall				;	;	

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< WIRING DIAGRAM > [INFINITI INTOUCH]

Connector No. M97	
Connector Name COMBINATION METER	
Connector Name	
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INFINITI	NFINITI INTOUCH (BASE AUDIO WITHC	N TUC	WIGAT	WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE)	E ENGINE)				
Connector No.	M100	45	>	TEL VC	Connector No.	M105	27C	Ь	
Connector Name	DISPLAY CONTROL UNIT	46	SHIELD	╛	Connector Name	DISPLAY CONTROL UNIT	28C	>	
	Т	47	~	VOICE GUIDANCE SIGNAL OUTPUT (-)			29C	>	,
Connector Type	TH24FW-NH	48	œ 3	VOICE GUIDANCE SIGNAL INPUT (-)	Connector Type	Tyco_1554987-6	20	œ 6	
Œ		£ 5	≥ 0	NS UN/OFF SIGNAL	₫.		300	¥ }	
THE PERSON NAMED IN COLUMN TO PERSON NAMED I		51	SHIELD		ALT.		32C	\$ &	
H.S.	1817 1990 99	25	SHELD	MICROPH	S.		330		- [With VR30 engine]
	20 30	54	Α			92 93	33C	œ	- [With 2.0L turbo gasoline engine]
	20/20/00/01	55	SHIELD	SHIELD		94	34C	W/B	,
		26	BR	COMPOSITE IMAGE SIGNAL (+)			35C	SB	
		28	8	CAMERA IMAGE SIGNAL			36C	æ	
) let	Of Signal Name (Specification)	09	Μ	SOUND SIGNAL (-)) lei	f Signal Name (Specification)	37C	W	
No. Wire		61	æ	SOUND SIGNAL (+)	No. Wire		38C	SB	
16 LG	AV	62	œ	SOUND SIGNAL RH (+)	92 W	LVDS (+)	39C	>	
17 P		63	SHIELD		93 B	LVDS (-)	3C	Ь	
		64	>	SOUND SIGNAL LH (+)	94 SHIELD		40C	9	
-	REVE	65	æ	TEL VC			4C	Ь	
22 B		99	SHIELD				2C	Ь	
\dashv	CAM	67	9	VOICE GUIDANCE SIGNAL OUTPUT (+)	Connector No.	M133	99	9	
28 SB	AV	89	>	VOICE GUIDANCE SIGNAL INPUT (+)	Connector Name	FLISE BLOCK (1/B)	70	9	
29 L	CAN-H	69	SHIELD			(2.7)	8C	O.	
\dashv	4	70	G	MICROPHONE SIGNAL	Connector Type	TH40FW-NH	90	>	
	IGN [For 2.0L turbo gasoline en	71	9	MICROPHONE SIGNAL [Without telematics system]	ą				
+	+	71	œ	MICROPHONE SIGNAL [With telematics system]	唐			-	
	ACC [Except for VR30 engine and v	72	-	MICROPHONE VCC	Ě		Connector No.		M135
33	ACC [For VR30	74	œ	CAMERA POWER SUPPLY	1	201 202 205 204 205 205 201 205 305 305 305 305 305 305 305 305 305 3	Connector Name		JOINT CONNECTOR-M09
34	BAT					400 BM 800 800 BM 800 B	Freehouse		***************************************
		Connec	Connector No.	M103			COIIIIECTO	7	24342_46A2A
Connector No.	M101	,					Œ		ŀ
		Connec	Connector Name	DISPLAY CONTROL UNIT	Terminal Color Of		T.		6543215
Connector Name		Connec	Connector Type	Tyco_1554987-1	No. Wire	olgnai Name (opecification)	Š.		11 10 9 月
Connector Type	TH40FW-NH	L	,		10C V				181716151413 5
		E	_	[12C L				24 23 22 21 20 19
		ŧ			13C L				
Į.		4		80.81	14C Y				
į. E				82 83	15C R		Terminal	Color Of	3
	5 Z 5 Z 6 Z 6 Z 7 Z 8			88	16C R		No.	Wire	Signal Name [Specification]
					L		-		
					18C BG	- [Without DRPO]	2	В	
		Terminal	al Color Of	L	╀	- (With DRPO)	m	8	
Terminal Color Of		No.	Wire	Signal Name [Specification]	19C B		4	В	
No. Wire	e Signal Name [Specification]	8	9	USB GROUND	1C R		S	9	
36 LG	COMPOSITE IMAGE SIGNAL (-)	81	*	USB V BUS SIGNAL	20C W		9	8	
38 SHIELD	LD SHIELD	82	~	USB D- SIGNAL	21C L		6	97	
H	LD MANUFACTURER SPECIFIC SIGNAL	83	_	USB D+ SIGNAL	22C L		10	97	,
42 G	SOUND SIGNAL RH (-)	84	SHIELD	SHIELD	23C L		11	91	
43 SHIELD	LD SHIELD	İ			25C LG		13	В	- [With VR30 engine]
44	SOUND SIGNAL LH (-)				Н		13	SB	- [With 2.0L turbo gasoline engine]

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< WIRING DIAGRAM > [INFINITI INTOUCH]

46 B -	Connector No. M159	Connector Name WIRE TO WIRE	Connector Type TH40FW-NH	Q.	10000000000000000000000000000000000000		20 19 18 17 16 15 14 13 12 11 10	40 39 38 37 38 38 39 39 39 39 39 38 27 38 38 34 29 22 21				je Je	NO. WIFE		+	+	+	ž 4	r 3	b W - [except with VK30 engine and with IS3]	- J. C	T	╁	12 1	13 G .	14 Y -	15 8 .	_	œ 8	သူ မ	20 BK - [With VK30 engine and with BO3E system]	+	+	╀	ł	╀	╀	29 6	╀	33 W	+	+	+	+	38 LG -
M146 WIRE TO WIRE	TK36MW-NS10			1 2 3 4 5 11/2 13 14/2 16/17 18/3 20 20 20 20 20 20 20 20 20 20 20 20 20					Signal Name (Specification)			•																																,	-
ne									0	Wire	≃ 8	ž	> 2	2 -	، ر	۵ 5	g >	، ا	,	PK W	3 0	-	SHIELD	æ	В	o	٦	œ	υ :	- 8	¥ 3	2 2	2 3		~	SHEID	8	3		3 8	5 .	ے م	2 ,	9	SB
Connector No. Connector Name	Connector Type	Œ		2					Terminal	No.	5	»	n ;	3	= 5	7 5	3 3	‡ ;	۽ ا	12 TP	2 2	5	2 2	21	22	23	24	22	56	95	7 6	25	25	52	36	32	800	2	9	7	7.	74,	63	44	45
Connector No. M142 Connector Name EXTERNAL DATA INPUT BOX	Connector Type GT17VS-10DS-HU			1.3.	8 2 2				ē	No. Wire		+	× (، و	+	Α -	+	11 SHIELD SHIELD		Connector No. M143	I	Connector Name EXTERNAL DATA INPUT BOX	Connector Type TH12FW-NH	1			12 13 14 16 17	20 21			Torminal Color Of		+	: ~	14 B AUX SOUND SIGNAL BH			AMIXINA	> د	21 V AOA IMPAGE SIGNAE (*)	g ;	>		
5 5	Con	Œ	手	•	_			_[Terr	_				_			ľ	Τ			g		<u>5</u>	Ö	<u>ן</u> נ	1	_	•				Tow	_		ľ	L	1	L	Ι΄	Τ΄	Τ	T	<u>]</u>		
- [With VR30 engine] - [With 2.0L turbo gasoline engine] - [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]			·					1000	MILS/	JOINT CONNECTOR-M10	ACA74 CACAC	24342_46A2A		7 0 0 1	0 0	16 15	22 21 20 19				oignal Name (opermeation)																		
-	Щ	+	-	_	_	,					\neg	_						- 1										- 1	- 1					1	1	1	1	1	1		-1	- 1	- 1	- 1	
88 -[SB	SB	SB	٨	SB	>	SHIELD	æ	œ	SHIELD		_		Connection No	OF ING.	Connector Name	Connector Tuno	adki io			H.S.					Terminal Color Of	Wire	В	a a	Ω 0	20 0	0	2 00	0 00	0		_	-	-	-	٥	< 4	× (×	æ

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NITI INTOUCH (BASE AUDIO	OUT NAVIGATIO	WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE			
40 W -	_	SOUND SIGNAL FRONT RH (+)	M 99	AUX SOUND SIGNAL LH	Connector No. M167
	12 P	SOUND SIGNAL FRONT RH (-)	+	SOUND SIGNAL LH (-)	Connector Name AV CONTROL UNIT
	13 L	SOUND SIGNAL REAR RH (+)	+	SOUND SIGNAL RH (-)	٦
Connector No. M160	14 B	SOUND SIGNAL REAR RH (-)	2	SHIELD	Connector Type Tyco_1554987-1
Connector Name WIRE TO WIRE	+	BAI	+	AUX SOUND SIGNAL GND	Q
	20 B	GND	72 B	AUX SOUND SIGNAL RH	
Connector Type NS08FW-CS					H.S.
B	Connector No. M:	M164	Connector No.	M166	91 92
	Commonton Manne	TIME COTINGS AN		INI IOGENOS AV	93
ᆏ		CONTROL UNIT	1)	V CONTROL CIVIL	
8 7 6 5 4	Connector Type TH	TH40FW-NH	Connector Type T	TH16FW-NH	
	Q		Q		la l
	营		季		Wire
Tominal Color Of	S		S	7	89 G USB GND
		38 38 38 38 38 38 38 38 38 38 38 38 38 3		79	A 0
t		35 000		81 82 83 84 85 86 87 88	-
2 LG					SHIELD
3 BR -					
Н	lal	Signal Name [Specification]	Jei	Signal Name [Specification]	
	No. Wire		No. Wire		Connector No. M171
7 R -	22 LG	AV COMM (L)	+	TEL VOICE SIGNAL (+)	Connector Name JOINT CONNECTOR-M01
· · · · 8	+	AUX IMAGE SIGNAL (+)	ᄷ	SHIELD	Ī
	+	COMPOSITE IMAGE SIGNAL (+)	+	VOICE GUIDANCE SIGNAL (+)	Connector Type 24342_4GA2A
	+	COMPOSITE IMAGE SIGNAL (-)	+	SHIELD	QI.
CONNECTOR NO. MIL63	7	SHIELD	5	SOUND SIGNAL FROM LH (+)	(本)
Connector Name AV CONTROL UNIT	+	AV COMM (H)	+	SOUND SIGNAL FRONT LH (-)) C
- 1	T	AUX IMAGE SIGNAL (-)	+	SOUND SIGNAL REAR LH (+)	0 6 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Connector Type NH18FW-CS2	57 SHIELD	SHIELD	+	SOUND SIGNAL REAR LH (-)	41 (21) 1 (1) 1
₫ <u>E</u>			W 18	IEL VOICE SIGNAL (-)	Z4 Z3 Z2 Z0 19
	Connector No.	M165	t	VOICE GLIDANCE SIGNAL (-)	
			+	SHEID	Terminal Color Of
ρ .	a)	AV CONTROL UNIT	85 R	SOUND SIGNAL FRONT RH (+)	
10 11 2 13 14	Connector Type TH	TH12FW-NH	1 98	SOUND SIGNAL FRONT RH (-)	1 8
			87 B	SOUND SIGNAL REAR RH (+)	2 B -
	彦		88 W	SOUND SIGNAL REAR RH (-)	3 B
Terminal Color Of Signal Name (Specification)	É	7			4 B -
	Ċ.	61 62 63 65 66			
1 SHIELD SHIELD		2 60			- B 9
2 L SOUND SIGNAL FRONT LH (+)		0/ 00 03 // //			7 B -
3 R SOUND SIGNAL FRONT LH (-)					8 B
					- 8 6
+	le le	Signal Name [Specification]			-
ACC [Except for VR30 engine and w	^				+
ACC [For VR30 engine and with ISS]) (1) (2	SOUND SIGNAL LH (+)			14 8 -
a'\a	7	SHED			╀
10 SHIFID SHIFID	65 SHIFID	SHED			- Iwith
SHIELD	1	311175			-

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[INFINITI INTOUCH] < WIRING DIAGRAM >

Connector No. M177 Connector Name Journ CONNECTORAMO7 Connector Type J233.2 4GA2A Connector Type J233.2 4GA2A Connector Type J233.2 4GA2A Connector Type J23 J2 J2 J2 J2 J3 J4 J2 J3 J4 J4 J5 J5 J5 J5 J5 J5	
Cornector No. Lid Cornector No. M175 Cornector Type	
17 18 18 19 19 19 19 19 19	
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Terminal Color Of Signal Name (Specification) 150	HS. Color Of Signal Name (Specification) Terminal Color Of Signal Name (Specification) No. Write SATELLITE RADIO CANTENNA SIGNAL	177 SHIELD SHIELD	Terminal Color Of Signal Name (Specification) No. Write 1 SHRED
ENGINE) Connector Na. Connector Type Connector Type POJFBA LAS.	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) Connector No. M390 Connector Name WINDOW AUTENNA (AM/FM MAIN) Connector Name POLFEA	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification] 1	Connector Name AV CONTROL UNIT Connector Type GT13SH-2-1S-HU H.S. E.S.
WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE) Connector No. M376 Connector Name WIRE TO WIRE Connector Type GT135CN-2-JPF-HU Connector Type GT135CN-2-JPF-HU Connector Type GT135CN-2-JPF-HU MAS. H.S. The Mass GT135CN-2-JPF-HU Connector Type GT135CN-2-JPF-	Terminal Color Of Signal Name (Specification) No. Wire	Connector Type GT1355N-1-1PP-HU H.S	
INFINITI INTOUCH (BASE AUDIO WITHC Connector No. M331 Connector Name COMBINATION SWITCH (SPIRAL CABLE) Connector Type TKOBFGY M3. Z019181716151413	Terminal Color Of Signal Name [Specification] No. Wire 13	Connector No. M/375 Connector Name WIRE TO WIRE Connector Type GT135C-2.15-HU H.S.	Terminal Color Of Signal Name [Specification] No. Wire 2 2 2 3 .

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< WIRING DIAGRAM > [INFINITI INTOUCH]

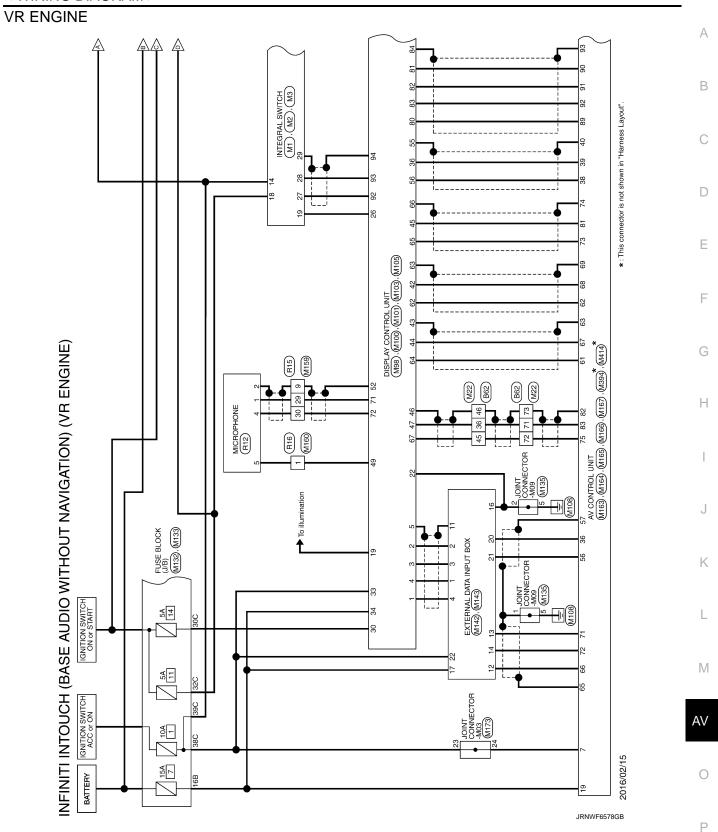
	ПП		А
	12 H 10 B 11 11 0 B 1	Signal Name (Specification) WRE	В
	R14 WIRE TO WIRE THIGHWANH R 7 6 5 4 R 16 15 14 13 12		С
	Connector No. R14 Connector Type ITH1 H.S.	Terminal Color Of No. Wire No. Wire No. Wire No.	D
	7 8 15 15 15 15 15 15 15 15 15 15 15 15 15	ation]	Е
	3 4 5 6 11 12 13 14	Signal Name (Specification) - [With ANC] - [With ANC] - [Without ANC] - [With	F
	e WIRE TO TH15MV	A C E E D RE C C C C C C C C C C C C C C C C C C	G
NE ENGINE	Connector No. Connector Name Connector Type	Terminal Color (No. Whee No.	Н
INFINITI INTOUCH (BASE AUDIO WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE)		pecification)	ı
N) (2.0L TUF	M418 WIRE TO WIRE GT16C-1PP-HU	Signal Name (Specification) Signal Name (Specification) Signal Name (Specification)	J
NAVIGATIO	ector No.	SHEID SHEID SHEID SHEID SHEID SHEID SHEID SHEID SHEID	K
WITHOUT	Conn		L
ASE AUDIO		Signal Name (Specification)	M
NTOUCH (B.	M416 WIRE TO WIRE GT16C.1PP-HU	MWRE TO 1	AV
INFINITI	Connector No. Connector Type	Terminal Color Of No. Wire 2 SHELD Connector No. Connector No. Connector No. Wire 1 No. SHELD 2 SHELD 2 SHELD 2 SHELD 2	0
		JRNWF6576GB	
			Р

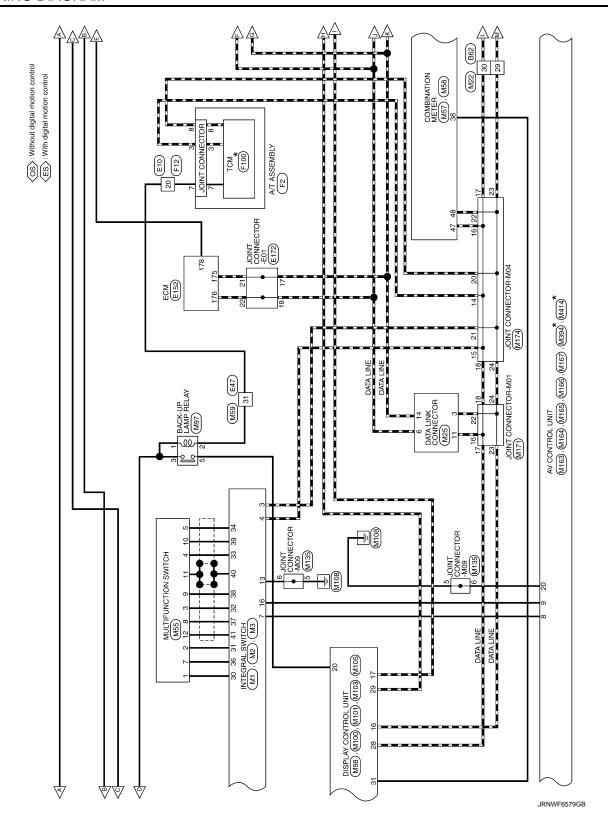
Revision: November 2016 AV-149 2016 Q50

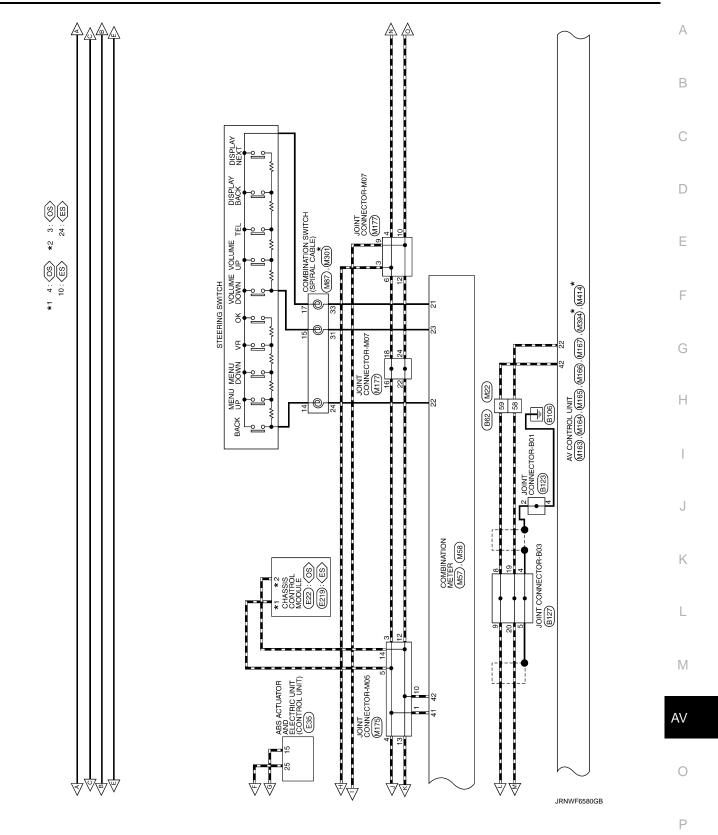
INFI		ITOUCH (BASE AUDIO WITH	INFINITI INTOUCH (BASE AUDIO WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE	ENGINE
11	ď	-	Connector No. R19	
12	7		Competent Name (December Michael Anthre Motes CANTELL ATION)	
13	9			
14	٨	•	Connector Type TK02FBR	
15	В			
17	SB	•	Œ	
19	BG			
20	BG	- [Without BOSE system]		
20	BR	- [With BOSE system]	1 2	
21	œ			
22	g			
24	В			
25	BG	- [Color of wire differs depending on production]	Terminal Color Of Signal Name (Specification)	
25	а	- [Color of wire differs depending on production]	a	
56	BR		1 W -	
27	GR		2 LG .	
28	В			
53	œ			
30	٦		Connector No. R20	
31	^		Connector Name Real Microphone (ACTIVE NOISE CANCELLATION)	
32	Μ			
33	٦	*	Connector Type TK02FBR	
36	BR		4	
38	SB		E	
40	Μ			
			12.	
Connector No.	r No.	R16]	
Connector Name	r Name	WIRE TO WIRE		
Connector Type	Tvno	NEOSPANA	Tarminal Color Of	
	3	N306INIV-C3		
E			Н	
H.S.		1 2 ••• 3 4 5 6 7 8	2 68 .	
Terminal		Signal Name [Specification]		
ė.	Wire			
Ţ	×			
7	œ			
3	>			
4	≯			
9	80			
7	GR	-		
•	,			

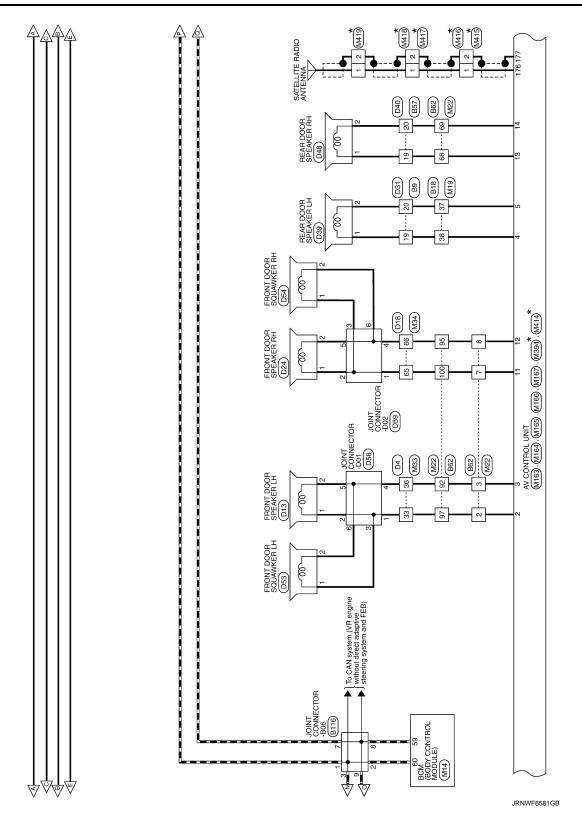
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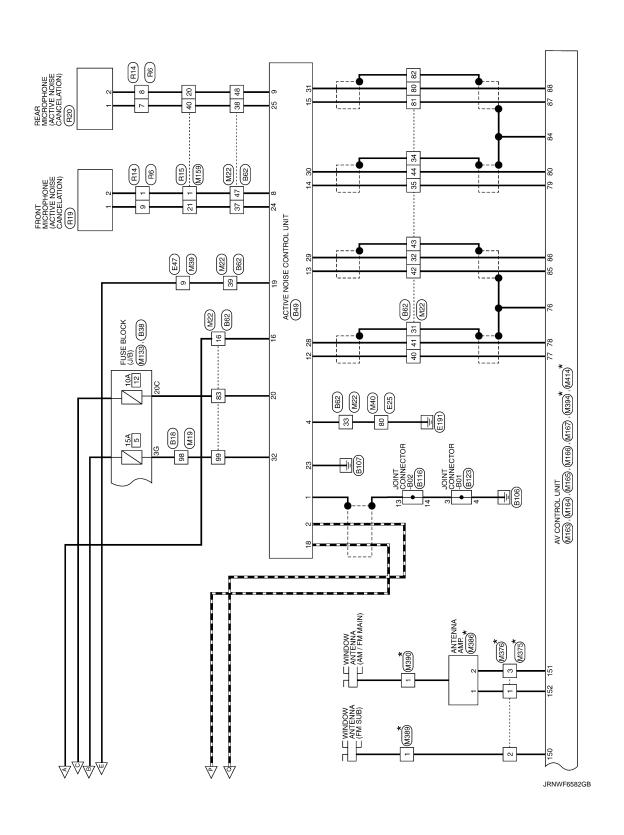
< WIRING DIAGRAM > [INFINITI INTOUCH]











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< WIRING DIAGRAM > [INFINITI INTOUCH]

INFINITI	NFINITI INTOUCH (BASE AUDIO WITHC	N TOC	AVIGA	WITHOUT NAVIGATION) (VR ENGINE)						
Connector No.	68	12	H		71	W		Connector No.		B49
Connector Name	WIRE TO WIRE	13	13 GR		72	В 3		Connector Name		ACTIVE NOISE CONTROL UNIT
Connector Tune	OF SOUTH CESO	1	$^{+}$		2 7	.[.		Connector Time	Ť	THE WINDOWS
add. paramon	OTC MOTHER	1	7 V		7.	۳ د	- [Without paddle shift]		1	I OZEW TVI
Œ		Ĭ	18 W		72	>	- [With paddle shift]	Œ		
	6 5 4	Ĕ	H		9/	BR				
Ż.	,]	Ž	20 W		77	8		Ŝ		0 0 0
	13 12 11 10 9	22	2 R		78	SB			-100	90 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20
	7 18 17 16 15 14 0	23	3 \		79	۸	- [With VR30 engine]		븨	000
		2,	24 R	- [With 2.0L turbo gasoline engine]	79	W	- [With 2.0L turbo gasoline engine]			
		2.	24 Y	- [With VR30 engine]	81	В				
Terminal Color Of	f Simul Name (Secretion)	2:	25 P	Т	82	×		Terminal	Color Of	Circuit Money (Connection)
No. Wire	olgilal ikalije [operiikaliori]	25	۸ ۸	- [With 2.0L turbo gasoline engine and with gateway]	83	BG		No.	Wire	olgilal Ivalile [openiication]
1 16		آ ا	25 W	- [With VR30 engine]	84	_		1	SHIELD	GND
2 1.6		2	26 6		85	æ	- [Without paddle shift]	2	d.	CAN-L [For 2.0L turbo gasoline engine]
3		27	7 R		82	>	- [With paddle shift]	2	œ	CAN-L [For VR30 engine]
۷ >		ž	28 R		86	8		e	8	ENGINE TYPE SIGNAL 1
7 B		31	1 8	- [With VR30 engine]	88	g		4	8	ENGINE TYPE SIGNAL 2
19 BR	- [With BOSE system]	31	1 BR	[With 2.0L turbo gasoline engine]	88	>	- [With 2.0L turbo gasoline engine]	ø	ŋ	FRONT MICROPHONE SIGNAL (+)
-	- [Without BOSE system]	32	H	L	89	*	- [With VR30 engine]	6	98	REAR MICROPHONE SIGNAL (+)
	- [With BOSE system]	33	3		91	æ		12	U	SOUND SIGNAL FRONT LH (+)
L	- [Without BOSE system]	34	H		94	GR		13	~	SOUND SIGNAL FRONT RH (+)
\mathbf{I}		₩.	╀		96	>		14	51	SOUND SIGNAL BEAR LH (+)
		ñ	36 W		46	>		15	8	SOUND SIGNAL REAR RH (+)
Connector No.	818	37	╀		86	BR	- fWith VB30 engine and with BOSE system	16	>	ACC
	Т	m	╁		86	>	- [Except with VB30 engine and with BOSE system]	18	_	CAN-H
Connector Name	WIRE TO WIRE	40	╀					16		FNGINE SPEED SIGNAL
Connector Type	TH80FW-CS16-TM4	41	1 SB					20	· *	NSI
		45	+		Connector No.		B38	23	8	QND
Œ		43	H					24	~	FRONT MICROPHONE SIGNAL (-)
		44	H		Connect	Connector Name	FUSE BLOCK (J/B)	25	M	REAR MICROPHONE SIGNAL (-)
Ż.	20 20 20 20 20 20 20 20 20 20 20 20 20 2	46	8 9		Connect	Connector Type	NS10FW-CS	28	_	SOUND SIGNAL FRONT LH (-)
		ĭš				ı		29	٦	SOUND SIGNAL FRONT RH (-)
		51	1 SB		Œ			30	۵	SOUND SIGNAL REAR LH (-)
		25	┝					31	×	SOUND SIGNAL REAR RH (-)
		53	9		E.S.		36 2616	33	>	BAT
Terminal Color Of	L	54	╀				99 29			
No. Wire	Signal Name [Specification]	Ē	H							
H		57	╀							
2		000	F							
H		۳	59 GR		Termina	al Color Of				
4 LG		9	╀		Š		Signal Name [Specification]			
╁		19	╀		16	æ				
9		62	F		26	3				
+		63	+		38	╀				
. 8		9	╀		25	╀				
╁		9			99	╀				
11 12		8 8	╀		}	1				
4			4							

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< WIRING DIAGRAM > [INFINITI INTOUCH]

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	ا و	¥ .	- [With 2.0L turbo gasoline engine]	39	× •	 With VR30 engine and with BOSE system) 	82	9	- [With 2.0L turbo gasoline engine]
WIRE TO WIRE	-	<u>-</u>	- [With 2.0L turbo gasoline engine and with BOSE system]	40	. ق	•	82	SHIELD	- [With VR30 engine]
NUMBER COLD	١	X X	- [With VRSU engine and without BOSE system]	41	١ -		2 3	¥	- [With 2.0L turbo gasoline engine]
JFW-CS10	\	3	- [with vk30 engine and with BOSE system]	747	2		8 3	M S	- [with vk30 engine]
	, ,	- -	- Iwith 2.0t turbo gasoline engine and without book system)	43	SHIELD		9	NG C	- [with vksu engine]
	× .	20	- [With VR30 engine and with BOSE system]	44	۱.		84	SHIELD	- [With 2.0L turbo gasoline engine]
6 5 4 3 2 1	00	: ق	- [With 2.0L turbo gasoline engine]	45	8	- [With 2.0L turbo gasoline engine]	S2 :	g ,	- [With VR30 engine]
- [20	-	 [With VK30 engine and without BOSE system] 	45	9	- [With VR30 engine]	85	9	- [With 2.0L turbo gasoline engine]
20 10 13 12 11 10 9 8 7	6	9	- [With 2.0L turbo gasoline engine]	46	SHIELD		86	œ	 [With 2.0L turbo gasoline engine]
18 17 16 15 14	6	SHIELD	- [With VR30 engine]	47	9		98	W	- [With VR30 engine]
	10	^		48	98		87	91	- [With VR30 engine]
	11	æ		49	9		87	SHIELD	- [With 2.0L turbo gasoline engine]
	12	>		20	>	•	88	91	
Signal Name [Specification]	13	~		51	GR		06	а	- [With 2.0L turbo gasoline engine]
	1.4	ß		S	Μ	- [With 2 OI turbo gasoline engine]	6	>	- (With VR30 engine)
	1,7	S S	- [With 2 0] turbo assoline angine]	52	: >	- [With VR30 posine]	65	-	- DWith 2 OI turbo assoline anaine]
	i i	3 8	- (Mith West engine)	1 2		[augus agus usus]	6	4	- DAith VR30 paring
	31	5 >	[2116]	000	: 00		35	: 0	[with West casing]
	1 5			, u	5 -		60	CHIELD	- DWith 2 Of turks resoling against
	9	-		000			000	0	(augus augus agus agus agus agus agus agu
	o ;	- -		0 [>		94	۷.	
	5	×		27	×		95	_	- [With 2.0L turbo gasoline engine]
	20	æ		28	91		92	≻	- [With VR30 engine]
	21	œ		59	Ь		96	æ	- [With 2.0L turbo gasoline engine]
	22	>		61	L		96	W	- [With VR30 engine]
BOWN OF BOWN	23	Μ		62	Ь	- [With VR30 engine]	6	٦	- [With VR30 engine]
- C WIRE	24	BG	- [With 2.0L turbo gasoline engine]	62	۸	- [With 2.0L turbo gasoline engine]	46	В	- [With 2.0L turbo gasoline engine and with BOSE system]
TH80FW-CS16-TM4	24	>	- [With VR30 engine]	63	٦		46	M	- [With 2.0L turbo gasoline engine and without BOSE system]
	25	_	- [With 2.0L turbo gasoline engine]	64	Μ		86	91	
	52	SB	- [With VR30 engine]	99	97		66	BR	- [With VR30 engine and with BOSE system]
4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	56	9	- [With VR30 engine]	89	٦		66	Ь	- [With 2.0L turbo gasoline engine]
2 × 2	56	>	- [With 2.0L turbo gasoline engine]	69	а		66	>	- [With VR30 engine and without BOSE system]
2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	27	œ		7.1	GR	- [With 2.0L turbo gasoline engine]	100	BR	- [With VR30 engine]
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	59	9		7.1	~	- [With VR30 engine]	100	×	- [With 2.0L turbo gasoline engine]
	30	9	- [With 2.0L turbo gasoline engine]	72	9	- [With VR30 engine]			
	30	۵	- [With VR30 engine]	72	٨	- [With 2.0L turbo gasoline engine]			
5	31	SHIELD	-	73	œ	- [With 2.0L turbo gasoline engine]	Connector No.	r No.	8116
Signal Name (Specification)	32	-		73	SHIELD	- [With VR30 engine]			000 00000000000000000000000000000000000
- [With 2.0L turbo gasoline engine and without BOSE System]	33		- [With VR30 engine]	74	BG	- [With 2.0L turbo gasoline engine]	CONTRECTOR INSTITUTE	Manne	JOINT CONNECTOR-BOB
- [With VR30 engine]	33	91	- [With 2.0L turbo gasoline engine]	74	٦	- [With VR30 engine]	Connector Type	r Type	24342_4GA2A
- [With 2.0L turbo gasoline engine and with BOSE system]	34	SHIELD		75	GR	- [With 2.0L turbo gasoline engine]			
- [With VR30 engine]	32	97	- [With VR30 engine]	75	>	- [With VR30 engine]	E		
- [With 2.0] turbo gasoline engine]	55	3	- [With 2.01 turbo gasoline engine]	76	GR	- [With VR30 engine]			
- [With 2 01 turbo gasoline engine]	36	~	- [With VR30 engine]	76	>	- [With 2 0] turbo gasoline engine]	H.S.		o :
- [With VR30 engine and with BOSF system]	99	3	- [With 2.0] turbo gasoline engine]	77	۵	70			11 10 9 8 7
[With VB30 engine and without BOSE system]	3.2		- IWith 2.0L turbo easoline engine and without BOSE system?	78	-				17 16 15 14
	32	. ~	- [With VR30 engine]	79	2				24 23 22 21 20 19
- (With 2 Of turbo gasoline engine)	3 2	3	- [With 2.0], turbo easoline engine and with BOSE system]	OS OS	e e	- [With 2 01 turbo gasoline engine]			
- [With V830 engine]	300	. >	3	80	3	- [With VR30 engine]			
- [With 2,0L turbo gasoline engine]	8		- [With VR30 engine and without BOSE system]	81	8	- [With VR30 engine]			
		1				(B.:			

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32 Y	33 BB -	34 L	35 R	36 GR -	9	91	40 P - [Color of wire differs depending on production]	7 %	43 86	44 44 Y	╁	\vdash	S0 B -	52 V	GR	GR	-	56 BR -	57 R -	- · · · · · · · · · · · · · · · · · · ·		\vdash	61 BG -	Н	63 SB -	64 B -		7		- 1 69	w 0/	+	-														
							D4	WIRE TO WIRE	MICOCAN TC43	NHBUFW-1512								Signal Name (Specification)	licenson and a second				•														•										
15 BG	+	+	H	20 LG			Connector No.	Connector Name	Connector Tune	connector type	1	1	2					Terminal Color Of	No. Wire	2 SB	4 BG	5 R	> 9	7 LG	© ∞	9 GR	10 γ	<u>~</u>	12 BG	13 13	74 P	- 99 - 99	╁	18 GR	19 R	Н	21 LG	22 W	23 L	24 G	25 BR	26 R	27 BR	28 v	+	30 W	31 P
WITHOUT NAVIGATION) (VR ENGINE)	Т	Connector Name JOINT CONNECTOR-B01	Connector Type TK04FW-J	4	唐		043210				Terminal Color Of		1 SHIELD -	2 SHIELD .	- [With	3 SHIELD - [With VR30 engine]	4 B			Connector No. 8127	Connector Name LOINT CONNECTOR-803	,	Connector Type NH20FG-DC	4			9 2 8 9	20 19 18 17 15 14 13 11 10			Inminal Color Of	No Wire Signal Name (Specification)	+	2 SHIELD -	3 SHIELD -	4 SHIELD -	S SHIELD -	- д	7 p	8 в	- d 6		SHIELD - [With		~	13 BG .	\dashv
	Signal Name [Specification]				-	-			- [With Gateway]	- [with Cateway]	- [Without Gateway]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		- [With Gateway]	- [Without Gateway]	-	-	 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]	 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]			- [With VR30 engine]	- [With 2.0L turbo gasoline engine]													
INFINITI INTO	No Wire	+	2 1	3 (4 L	2 r	1 e	+	+	> 0	╁	H	10 V	11 V	12 P	┪		14 SHIELD	-	15 SHIELD	16 L	16 SHIELD	\dashv	17 SHIELD	18 L	18 SHIELD	┪	19 SHIELD	+	20 SHIELD	33 0	+	+	24 Y													

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< WIRING DIAGRAM > [INFINITI INTOUCH]

Connector No. D40 Connector Name Wilk TO Wilk	
Connector No. D31 Connector Name Wife TO Wife Connector Type MH10MW.C310 T 2 3 MH 1 1 1 1 2 3 MH 1 1 1 2 3 MH 1 2 3 MH 1 2 3 MH 1 3 MH 2 3 MH 3 MH 3 3 MH 3 MH	
NUT NAVIGATION) (VR ENGINE) 22	
Connector Name FRONT DOOR SPEAKER LH	
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< WIRING DIAGRAM > [INFINITI INTOUCH]

	8/w	GROUND [With 2.0L turbo gasoline engine]	33	٨	- [With 2.0L turbo gasoline engine]	73	9	- [With VR30 engine]	Connector No.	No.	E35
19	BR	CHASSIS COMM-H [With VR30 engine]	34	d		73	Μ	- [With 2.0L turbo gasoline engine]	Connector Name	Manne	THAIL MODIFICATION DISCUSSION OF ACTUAL OF ACT
19	7	CHASSIS COMM-H [With 2.0L turbo gasoline engine]	32	GR		74	BR	- [With VR30 engine]		Na le	I man and a man a man and
23	9	ESS RELAY [With VR30 engine]	36	œ		74	٦	- [With 2.0L turbo gasoline engine]	Connector Type	Type	SAZ30FB-SJZ4-U
23	æ	ESS RELAY [With 2.0L turbo gasoline engine]	37	_	- [With 2.0L turbo gasoline engine]	75	Ь	- [With 2.0L turbo gasoline engine and without gateway]	þ		
			37	>	- [With VR30 engine]	75	œ	- [With 2.0L turbo gasoline engine and with gateway]	彦		
			38	-	- [With VR30 engine]	75	>	- [With VR30 engine]	Ě		25 28 30 32 34 4
Connector No.		E25	38	۵	- [With 2.0L turbo gasoline engine and without gateway]	9/	9		5		15 17 18 19 20
Connector Name		WIRE TO WIRE	38	æ	- [With 2.0L turbo gasoline engine and with gateway]	77	>				3
			39	BR	- [With 2.0L turbo gasoline engine]	78	97	- [With 2.0L turbo gasoline engine and with ADAS]			1 8 8 10
Connector Type		TH80FW-CS16-TM4	39	٨	- [With VR30 engine]	78	d	- [With VR30 engine]			
			40	SB		78	۸	- [With 2.0L turbo gasoline engine and without ADAS]			
E			41	97		79	SB		Terminal	Color Of	
Ę		8 28	44	>		80	ŋ		No.	Wire	Signal Name [Specification]
2		92	45	_	- [With 2.0L turbo gasoline engine]	81	œ		1	8	GND
		2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	45	*	- [With VR30 engine]	82	>	•	2	8	dNb
		2	46		- [With VR30 engine]	88	BB	- (With 2.01 turbo gasoline engine)	m	ی	VALVE BATTERY (With VR30 engine)
			76	>	Contract of the 10 C deliber	60	٥	[Mith Web Common]	c	٥	VALVE BATTEDY (Mith 2 OI turbo garolino orginal
			ş	- ,	- Iwini z.or taipo gasonile enginej	3	2	familia occidental	,	. ;	AAOTO DATTEDA
-	. 0		÷ :	ا		\$ 3	2 1		ŧ	- !	MOLOR BALLERY
ē	to los	Signal Name (Specification)	48	SHIELD		98	98		2	91	STOP LAMP SW SIGNAL [With ADAS]
No.	Wire		49	~		87	g		2	>	STOP LAMP SW SIGNAL [With ASCD]
1	BG	-	20	BR	- [With VR30 engine]	89	91	-	7	GR	RR LH WHEEL SENSOR SIGNAL
9	۸		20	GR	- [With 2.0L turbo gasoline engine]	06	9	- [With VR30 engine]	80	9	RR LH WHEEL SENSOR POWER SUPPLY
7	_		51	_		06	SR.	- [With 2.0L turbo gasoline engine]	6	BR.	FR RH WHEEL SENSOR SIGNAL
∞	BG	- [With VR30 engine]	52	*		91	ŋ		10	GR.	FR RH WHEEL SENSOR POWER SUPPLY
∞	88	- [With 2.0L turbo gasoline engine]	23	>		93	88		13	œ	VACUUM SENSOR SIGNAL
6	8	- [With 2.0L turbo gasoline engine]	54	۵	- [With VR30 engine]	94	GR	- [With VR30 engine]	15	۵	CAN-L [Without Gateway]
6	GR	- [With VR30 engine] [Color of wire differs depending on production]	54	^	- [With 2.0L turbo gasoline engine]	94	٦	- [With 2.0L turbo gasoline engine]	15	œ	CAN-L [With gateway]
6	91	- [With VR30 engine] [Color of wire differs depending on production]	22	8	- [With 2.0L turbo gasoline engine]	95	BG	- [With VR30 engine]	17	>	RR RH WHEEL SENSOR SIGNAL
10	BR		55	>	- [With VR30 engine]	95	а	- [With 2.01 turbo gasoline engine and without gateway]	18	91	RR RH WHEEL SENSOR POWER SUPPLY [With 2.0], turbo gasoline engin
11	_		26	BG	- [With 2.0L turbo gasoline engine]	92	œ	- [With 2.0L turbo gasoline engine and with gateway]	18	>	RR RH WHEEL SENSOR POWER SUPPLY [With VR30 engine
12	GR	- [With VR30 engine]	26	SB	- [With VR30 engine]	96	*		19	SB	FR LH WHEEL SENSOR SIGNAL
12	۵	- [With 2.0L turbo gasoline engine]	57	BG	- [With VR30 engine]	97	91		20	88	FR LH WHEEL SENSOR POWER SUPPLY
13 S	SHIELD	- [With 2.0L turbo gasoline engine]	57	Α	- [With 2.0L turbo gasoline engine]	86	٦		25	_	CAN-H
13	>	- [With VR30 engine]	28	90	- [Color of wire differs depending on production]	66	91	- [With 2.0L turbo gasoline engine]	28	9	VACUUM SENSOR POWER SUPPLY
14	8		28	B/W	- [Color of wire differs depending on production]	66	а	- [With VR30 engine]	30	œ	VDC OFF SW SIGNAL
15	S.	- [With 2.0L turbo gasoline engine]	29	3		100	SHIELD		32	SHELD	Š
15	æ	- [With VR30 engine]	61	~					34	U	
16	æ	- [With 2.0L turbo gasoline engine]	64	>							
16	>	- [With VR30 engine]	9	BR	- [Color of wire differs depending on production]						
17	BR	- [With VR30 engine]	9	æ	- [Color of wire differs depending on production]						
17	æ	- [With 2.0L turbo gasoline engine]	99	æ							
18	9	- [With 2.0L turbo gasoline engine]	49	97							
18	۵	- [With VR30 engine]	89	BG							
19	>		69	_							
31	*	- [With 2.0L turbo gasoline engine]	70	~							
31	>	- [With VR30 engine]	7.1	٥	- [With 2.0L turbo gasoline engine]						
32	9	- [With 2.0L turbo gasoline engine]	7.1	PI	- [With VR30 engine]						
32	æ	- [With VR30 engine]	77								
			1	_	- [With 2.0L turbo gasoline engine]						

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Revision: November 2016 **AV-161** 2016 Q50

< WIRING DIAGRAM > [INFINITI INTOUCH]

INFINITI	UCH (BASE AUDIO	N T	AVIGA	WITHOUT NAVIGATION) (VR ENGINE)						
Connector No.	E47	Conne	Connector No.	E152	Connector No.		E172	Connector No.		E219
Connector Name	WIRE TO WIRE	Conne	Connector Name	ECM	Connector Name		JOINT CONNECTOR-E01	Connector Name		CHASSIS CONTROL MODULE
Connector Type	TH32MW-NH	Conne	Connector Type	RH24FB-RZ8-L-RH	Connector Type	П	SGA28FLBR-J	Connector Type	П	TH28FW
H.S.	1 2 3 4 5 6 7 8 9 1011123 44 15 16 17 16 19 26 24 25 26 24 25 26 20 30 32	Œ.	H.S.	Text 100	E HS.			是 H.S.		3 4 5 6 8 9 10 121314 5 17 19 21223242628 28
Terminal Color Of		Terminal	inal Color O		Terminal	Color Of		Terminal	Color Of	
	Signal Name [Specification]	No.		Signal Name [Specification]	Š.		Signal Name [Specification]	No.	Wire	Signal Name [Specification]
1 6	- [Color of wire differs depending on production]	173	H	FUEL TANK PRESSURE SENSOR	н	æ		1	91	ACTUATOR (FL)-L
× >	- [Color of wire differs depending on production]	175	۵ . د د	CAN-L	7	-	•	m .	a a	ACTUATOR (RR)-H
7 8		177	. c	SENSOR POWER SLIPPLY [FLIE] TANK PRESSLIRE SENSOR]	0 4	-		t u	2 3	CHASSIS COMM-1
. 4	- [Without Gateway]	178	+	TACHO METER SIGNAL	- 5	, g		, 9		GROUND
4 R	- [With Gateway]	180	0	FUEL TANK TEMPERATURE SENSOR	9	>		∞	BR	CHASSIS COMM-H [Color of wire differs depending on production]
N 8		182	2 W	FUEL PUMP CONTROL MODULE (FPCM) CHECK	7	Α		80	_	CHASSIS COMM-H [Color of wire differs depending on production]
6 SB	H	185	2 SB	IGNITION SWITCH	∞	_		6	g	DRIVENDOE SELECT SW (DOWN) (Color of wire differs depending on production)
7 BR	Н	186	8S 9	ASCD STEERING SWITCH	6	GR		6	٨	DRIVENIDE SEECTSW (DDWR) [Daler of wire differs depending on production]
J /	- [Color of wire differs depending on production]	187	7 BG	SENSOR GROUND [ASCD STEERING SWITCH]	10	٨		10	ı	CAN-H
8 W		188	> 8	FUEL PUMP CONTROL MODULE (FPCM)	11	Μ		12	9	ACTUATOR (FR)-H
9 BG	-	189	۸ 6	ENGINE COMMUNICATION LINE-L	12	7		13	9	ESS RELAY
۸ 6	- [With BOSE system]	190	0 ا	ENGINE COMMUNICATION LINE-H	15	Μ		14	L	ACTUATOR (RL)-L
10 V		191	1 P	STOP LAMP SWITCH	16	98		15	٨	ACTUATOR (RR)-L
11 SB		192	2 BG	BRAKE PEDAL POSITION SWITCH	17	Ь	-	17	>	ACTUATOR (FL)-H
12 G		193	3 GR	EVAP.CANISTENTRY CONTROL VALVE [Cobs. of wire differs depending on production]	18	7		19	7	CHASSIS COMM-H
		193	3 16	EVAP CANISTER VENT CONTROL VALVE [Color of wire differs depending on groduction]	19	Μ		2.1	W	CHASSIS COMM-L
\dashv		194	\dashv	SENSOR POWER SUPPLY	50	BG		22	>	DRIVE MODE SELECT SWITCH (UP)
1		195	S BR	ACCELERATOR PEDAL POSITION SENSOR 2	21	Ь		23	8	GROUND
17 SHIELD	- ·	196	8 9	SENSOR GROUND [ACCELERATOR PEDAL POSITION SENSOR 2]	22	_		24	۵	CAN-L [Without Gateway]
18 L		197	7 R	ECM POWER SUPPLY	23	SB	- [Color of wire differs depending on production]	24	ď	CAN-L [With Gateway]
19 Y		198	 &	SENSOR POWER SUPPLY	23	>	- [Color of wire differs depending on production]	25	ß	IGN
20 W		199	B B	ECM GROUND	24	BG	- [Color of wire differs depending on production]	26	>	ACTUATOR (RL)-H
21 G		200	^	SENSOR GROUND	24	91	- [Color of wire differs depending on production]	28	ď	ACTUATOR (FR)-L
22 R		201	1 B	ECM GROUND	25	Ь				
23 BR		20	2 Y	ACCELERATOR PEDAL POSITION SENSOR 1	56	٦	•			
24 R		203	3 6	SENSOR GROUND	27	Å				
72 1		204	4 B	ECM GROUND	28	_				
26 BG										
27 LG										
Н										
29 W										
31 G	-									
32 GR										

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[INFINITI INTOUCH] < WIRING DIAGRAM >

Connector No.	INFINITINI OUCH (BASE AUDIO WITHOUT NAVIGATION) (VR ENGINE) 10 86		5 8	IION) (VA ENGINE)	Connector No. F100	18 R IGN (For VR30 engine)
Connector Name	A/T ASSEMBLY	11	œ		<u>ا</u>	W IGN
Connector Tyne	Т	12	의 -		Т	20 IG AIR RAG INDICATOR OFF SIGNAL
add.	100-0-101	14	<u>-</u>		7	3
E	<	15	91		⋖	Ī
S	~	16	> .		`	Connector No. M2
	4 3 2	18			(123	Connector Name INTEGRAL SWITCH
	9 2 8 6 07	19	8		016181219	Connector Type Tyco 1554987-6
		20	BG			
		21	GR			
lar O	Of Signal Name (Specification)	22	≯		ler	E
No. Wire	┪	23	U		No. Wire	
1	T	24	SB			87 / 78
1 L	IGNITION POWER SUPPLY (With VR30 e	25	>		2 - BATTERY POWER SUPPLY (MEMORY BACK-UP)	29
2 P	BATTERY POWER S	56	≥		3 . CAN-H	
+		7	>			
+	+	87	≥ :		-	rio an
+	GROUND [With 2.0L turbog	67	×		6 - IGNITION POWER SUPPLY	e
+		e :	~ (BACK-I	+
+		31	۱			2000
+	BACK-UP LAMP KELAY	75	¥ ·			Z9 SMIELD SMIELD
a. ;	1000	33	۵ ا		10 - GROUND	
v 6		95	2 5			Connector No M2
4		20	3 8		Connector No M1	
		37	g >		Т	Connector Name INTEGRAL SWITCH
Connector No.	E12	88	. 88		Connector Name INTEGRAL SWITCH	Connector Type TH12FW-NH
	П	93	89		Connector Type TH24FW-NH]
Connector Name		40	SHIELD	- 0	1	
Connector Type	SAA36FB-RS8-SHZ8	41	æ			
þ		45	~		_	30 31 32 33 34
图	10 01 11 01	43	>		2 3 4 7 8 7	36 27 38 30 40 41
S IV	16 15 14 13	42	>		13 14 15 16 18 19 20	
	25 22 22 22 23 24 15 17 4 4	46	٠ .			
	Manager Ma	4 6	- 1			Tomaina Calor Of
	ত্রভাতার্থকার্থকার ব্যক্ত ব্যক্ত	9	2 8		Torminal Color Of	
		9 5	S E			t
Terminal Color Of		2 2	*		$^{+}$	***
	Signal Name [Specification]	3 2	٥			e e e e e e e e e e e e e e e e e e e
t		;	,			<u>ν</u> : α
+					a/w	4 %
7 6					2/4	. >
+) a	22 W ENCONTRACTOR CONTROL SIGNAL
± 1					GND G CT CT-17 224 G2 At	\$ (
+					gs >	, ,
+					+	
-					8	8
Α 6					16 BG DISK EJECT SIGNAL GROUND	41 L L/R_DETECTION SIGNAL

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INFIN	≦ E	INFINITI INTOUCH (BASE AUDIO WITHC	NT NA	VIGAT	WITHOUT NAVIGATION) (VR ENGINE)							
Connector No	No.	M14	Connect	or No.	M19	41	9		Connector No	r No.	M22	
Connector Name	· Name	BCM (BODY CONTROL MODULE)	Connect	Connector Name	WIRE TO WIRE	42	# #		Connector Name	r Name	WIRE TO WIRE	
Connector Type	· Type	TH40FB-NH	Connect	Connector Type	TH80MW-CS16-TM4	44	BR		Connector Type	r Type	TH80MW-CS16-TM4	
						46	BG					
彦			F			20	>		B			
Ę			¥		2	51	٨		H			
2		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Ċ.			52	۸		2			
		П				53	91	*				
						24	R					
						22	œ					
				- 1		22	>	,				
Terminal	Color Of Wire	of Signal Name [Specification]	Terminal	al Color Of Wire	Signal Name [Specification]	85 g	> %		Terminal	Color Of Wire	Signal Name [Specification]	
48	~	PUSH-BTN IGN SW III PWR	-	>		09	ی		-	91		
52	ŋ	DONGLE LINK	2	g		61	g	•	2	_	- [With VR30 engine]	
54	>	COMM LINE	m	æ		62	98		2	SHIELD	- [With 2.0L turbo gasoline engine]	
55	œ	RAIN SENSOR	4	BR		63	BR		ж	BR	- [With 2.0L turbo gasoline engine]	
59	d	CAN-L	2	٨		64	٨		3	В	- [With VR30 engine]	
09	٦	CAN-H	9	æ		99	В		4	SHIELD	- [With VR30 engine]	
61	9	REAR WINDOW DEF RLY CONT	7	Μ		70	91		4	λ	- [With 2.0L turbo gasoline engine]	
62	œ	STARTER RLY CONT	∞	>		71	>		s	g	- [With VR30 engine]	
64	>	I-KEY WARN BUZZER	10	BG		72	8		S	>	- [With 2.0L turbo gasoline engine]	
99	m	OUTS HD LAMP CONT	11	HH.		73	>		و	88	- [With VR30 engine]	
99	8	BLOWER FAN RLY CONT [With VR30 engine]	12	97		74	7		9	BR	- [With 2.0L turbo gasoline engine]	
99	>	BLOWER FAN RLY CONT [With 2.0L turbo gasoline engine]	13	æ		75	>		7	97	- [With VR30 engine]	
29	W/B	IGN RLYAY (F/B) CONT	14	œ		76	BB.		7	۵	- [With 2.0L turbo gasoline engine]	
89	В	DIMMER	15	-		77	8		∞	9	- [With 2.0L turbo gasoline engine]	
69	GR	A/T SHIFT SELECT PWR SPLY	16	>		78	SB		00	d	- [With VR30 engine]	
20	8	IGN RLYAY (IPDM E/R) CONT	18	Μ		79	Ь	- [With VR30 engine]	6	91	- [With 2.0L turbo gasoline engine]	
71	9	DR DOOR REQ SW	19	BR		79	>	- [With 2.0L turbo gasoline engine]	6	SHIELD	- [With VR30 engine]	
72	SB	PASS DOOR REQ SW	20	Μ		81	8		10	^		
75	BR	COMBI SW INPUT 5	22	SB		82	R		11	GR		
9/	BG	COMBI SW INPUT 4	23	æ		83	98		12	^		
77	^	COMBI SW INPUT 3	24	æ	- [With 2.0L turbo gasoline engine]	84	7		13	91		
78	γ	COMBI SW INPUT 2	24	٨	- [With VR30 engine]	82	W		14	97		
79	97	COMBI SW INPUT 1	25	а	- [With 2.0L turbo gasoline engine]	98	В		15	BR	- [With 2.0L turbo gasoline engine]	
80	_	TR LID OPNR SW	25	Μ	- [With VR30 engine]	88	9		15	Ь	- [With VR30 engine]	
			26	9		88	^	- [With 2.0L turbo gasoline engine]	16	SB	- [With DCM]	
			27	ď		68	Μ	- [With VR30 engine]	16	^	- [Without DCM]	
			28	œ		91	GR		17	>		
			31	BR		94	GR		18	٦		
			32	8		96	Μ		19	9		
			33	89		97	>		20	GR		
			34	>		86	BB	- [With VR30 engine and with BOSE system]	21	œ	,	
			35	Ь		86	٨	- [Except with VR30 engine and with BOSE system]	22	>		
			36	Μ					23	ب		
			37	SB					24	BG	 [With 2.0L turbo gasoline engine] 	
			38	91					24	^	- [With VR30 engine]	
			40	۵					25	_	- [With 2.0L turbo gasoline engine]	

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[INFINITI INTOUCH] < WIRING DIAGRAM >

F F F F F F F F F F	25	SB	- [With VR30 engine]	99	~	-		99 P	- [With 2.0L turbo gasoline engine]	Terminal	Color Of	[moleculation of money of property]
1	26	ŋ	- [With VR30 engine]	89	٦				- [With VR30 engine and without BOSE system]	No.	Wire	Signal Name [Specification]
1 1 1 1 1 1 1 1 1 1	56	*	- [With 2.0L turbo gasoline engine]	69	۵			L	- [With VR30 engine]	2	M	
15 16 17 17 18 17 18 17 18 18	27	œ		71	S	- [With 2.0L turbo gasoline	engine]		- [With 2.0L turbo gasoline engine]	4	9	
15.00 10.000 10	59	97		71	~	- [With VR30 engine				S	ŋ	
SHEED SHEE	200	æ	- [With VR30 engine]	72	o	- [With VR30 engine				9	~	•
15 Connector Num 20 km	20	×	- [With 2 01 turbo pasoline angine]	77	>	- (With 2.0) turbo gasoling	enginel	Connector No.	M25	7	æ	
1. Connector Name	5	SHIFID		2	-	- IWith 2 Of turbo gasoline	engine			α	æ	
1.00 1.00	2 2	-		73	SHE	L		Connector Name	DATA LINK CONNECTOR	σ	g g	
15 15 15 15 15 15 15 15	2		- [With VB30 engine]	47	-			Connector Type	BD16FW	ę	3	
1.	2	91	- [With 2.0L turbo gasoline engine]	74	91	- [With 2.0L turbo gasoline	enginel			11	SHELD	
1	2	SHIFID		75	٩			Œ		12	۵	
W 1,000 2,000 1,000	. 2	91	- [With VR30 engine]	2 92	. 88	- (With 2.0L turbo gasoline	enginel	李		13	. 85	,
No. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	52	×	- [With 2.0L turbo gasoline engine]	9/	>	- [With VR30 engine		S.	14	14	91	
Y Vivito 201 turbo gasoline engine] Ya Control 201 turbo gasoline engine] Ya Control 201 turbo gasoline engine] Ya Vivito 201 turbo gasoline eng	٥	œ	- [With VR30 engine]	77	>				1567	12	>	
V Vivin v320 ergine and winton 5005 system Signature ergine Signature ergine Signature ergine Signature v320 ergine	99	>	- [With 2.0L turbo gasoline engine]	78	_				000	16	>	4
V V (NUM VCI0 regime and without 60056 system) 680 CG - (With VCI0 regime and without 60056 system) 680 CG - (With VCI0 regime and without 60056 system) 680 CG - (With VCI0 regime and without 60056 system) 68 C (With VCI0 regime and without 60056 system) 68 C (With VCI0 regime and without 60056 system) 68 C (With VCI0 regime and with 60056 system) 68 C (With VCI0 regime and with 60056 system) 68 C (With VCI0 regime and with 60056 system) 68 C (With VCI0 regime and with 60056 system) 68 C (With VCI0 regime and with 60056 system) 68 C (With VCI0 regime engine) 7 (With	2	~	- [With VR30 engine]	79	٥					17	۵	,
With With With With With Bottlemendine regined Fig. With With Sol regione and with BOSE system) Si	72	>	- [With 2.0L turbo gasoline engine]	80	æ	- [With 2.0L turbo gasoline	engine			18	M/B	•
P - With N30 ergine and with DOS system 2 S S C C With N30 ergine ergine 2 S S C With N30 ergine ergine 2 S S C With N30 ergine ergine 3 S S S S W - With N30 ergine ergine 3 S S S S S S S W - With N30 ergine ergine 3 S S S S S S S S S		>		8	>	- [With VR30 engine			L	19	91	- [With DRPO]
1	65	۵	- [With VR30 engine and without BOSE system]	81	m	- [With VR30 engine				19	>	- [Without DRPO]
V Vivith VR3D ergine and with BOSE system 2 SHILD Vivith VR3D ergine 3 S Numb Vivith VR3D ergine 3 S Numb Vivith VR3D ergine 3 SHILD Vivith VR3D ergine 3 SHILD	6	œ	- [With 2.0L turbo gasoline engine]	81	~	- [With 2.0L turbo gasoline	engine	t	M CAN L	20	>	
C C C C C C C C C C	62	>	- [With VR30 engine and with BOSE system]	82	U	- [With 2.0L turbo gasoline	engine	H	EARTH	2.1	8	,
1	٥	9		82	SHEL	L		ŀ	EABTH	22	. Bg	- [Without DRPO]
Strict S	-	_		83	~	L	engine	\vdash	CAN-H	22	G	- [With DRPO]
SHELD WWITH VASIO engine SS SHELD WWITH VASIO engine WHITH VASIO	.2	œ		83	>	- [With VR30 engine		۷ /	KLINE [With 2.0L turbo gasoline engine]	23		
P P P P P P P P P P		SHIELD		84	BR	- [With VR30 engine		7 W	KLINE [With VR30 engine]	24	>	
Signature Sign	4	۵		84	SHIEL		engine]		MS_NSI	25	BG	- [Without DRPO]
Convector with VR30 engine Size C Vivith 2.01 Lurbo gasoline engine Size V Vivith 2.01 Lurbo gasoline engine V Vivith 2.01 Lurbo gasoline engine Size Vivith 2.01 Lurbo gasoline engine Size Vivith 2.01 Lurbo gasoline engine V Vivith 2.01 Lurbo gaso	2	8	- [With 2.0L turbo gasoline engine]	82	BR	- [With VR30 engine			M_CAN_H	25	_	- [With DRPO]
SHELD CANH SEC NATION S	25	9	- [With VR30 engine]	85	O	- [With 2.0L turbo gasoline	engine]	L	CAN-I.	26	>	,
Convector with Vision engine Signation Signation	9	SHIELD		98	~	- [With 2.0L turbo gasoline	engine]	13 L	CAN-H	27	GR	
SG -	_	9		98	>	- [With VR30 engine		L	CAN-L	28	>	,
SR - With VR30 engine and with BOSE system SP SHIELD - With 2.01 turbo gasoline engine V - With VR30		BG	- [Except with VR30 engine and with BOSE system]	87	91	- [With VR30 engine		_	POWER	53	89	
Corrector No. With Zot turbo gasoline engine 29 28 With Zot turbo gasoline engine 29 With Zot turbo gasoline engine 20 With Zot turbo gasoline engine		æ	- [With VR30 engine and with BOSE system]	82	SHE	L	engine]			98	>	
V Vivith ZOI, turbo gasoline engine	6	v		89	BR	- [With VR30 engine				31	8	
V Vitth 2.01 turbo gasoline engine Y Vitth V320 engine X Vitth V320 engi	0	>		88	91	- [With 2.0L turbo gasoline	engine]	Connector No.	M33	32	SB	
Connector Name Conn	5.1	^		90	SB	- [With 2.0L turbo gasoline	engine]		TOTAL OF TOTAL	33	7	
Y With V430 ergine 92	25	L	- [With 2.0L turbo gasoline engine]	96	>	- [With VR30 engine		COLLIECTO INGILIE	WINE IO WINE	34	BR	
R R R R R R R R R R	25	>	- [With VR30 engine]	95	_	- [With 2.0L turbo gasoline	engine)	Connector Type	NH60MW-TS12	35	91	
GR	33	æ		95	۸	- [With VR30 engine		-		36	Μ	
1 1 1 1 1 1 1 1 1 1	4	GR		93	~	- [With VR30 engine				37	8	
1	52	٦		93	SHEL		engine]			40	۵	
R R R R R R R R R R	و	۵		94	~			Ž.	31 34 37 40 43 45 45	41	SB.	
LG Comparison	œ	1	95	_	- [With 2.0L turbo gasoline	engine		28 28 39 42 45 46 5	43	×	- Except with VR30 engine and without is	
SB R -[With 2.0L turbo gasoline engine] -1.		9]		95	>	- [With VR30 engine			_	43	>	- [With VR30 engine and without ISS]
1 1 1 1 1 1 1 1 1 1	60	88		96	~	- [With 2.0L turbo gasoline	engine]			44	88	
P - [Writh 2.01 turbo gasoline engine] 97 L - [Writh VR30 engine] 47 49 V - [Writh VR30 engine] 98 8R - [Writh 2.01 turbo gasoline engine] 49 50	12	_		96	>	- [With VR30 engine				46	BR	
V	l:	٩	- (With 2 Of turbo assoline angine)	6	-	- (With VR30 paging				47	ď	
93 93 94 95 95 97 97 97 97 97 97 97 97 97 97 97 97 97	2	. >	- [With VR30 engine]	6	~	- IWith 2 Of turbo gasoline	enginel			49	>	
A CO	1,	-		86	8		10000			2.05		
		,	_				-			3		

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< WIRING DIAGRAM > [INFINITI INTOUCH]

AVIGATION) (VR ENGINE)	B - Ierminal Color Of Signal Name [Specification]	SB - [With DRPO] No. Wire	21 SHIELD . SB . Connector Type TH80MW-C516-TM4		BG - [Without DRPO] 4 P - [Without Gateway]	- With DRPO] 4 R . IWith Gareway!	SAL TO THE PROPERTY OF THE PRO	2 2		BG - [Without DRPU] / L	BR - [With DRPO] 8 W			BG - [Without DRPO] 10 V . No. Wire	. 29 W/B · (Wrth DRPO) 11 SB · 1 BG · .	. 30 L . 12 G . 6 W/B .	. 49 P	. 52 V	8 16 SB 8 8	SB	Mith 9 P P P P P P P P P P P P P P P P P P	, 10 W	7 20 1 51	R 21 G - 11 Y - With	B	64 R - With 2.01 Lurbo gasoline engine	65 BR 24 R 13 GR	66 Y	A	70 7	71 SB RR 15 SB	W 29 W/B 16 B	30 Y	Aaring (Specimendoni) 17 LG	Connector No. M39 32 L --\text{\(\xi\text{\\cin\exit\\\exit\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Connection Miller TO Miller 1 (Without Anti-theft diode) 18 W/B (With 2.01 Lurbo gasoline engine)		Connector Type TH32FW-NH 31 W	32 G - [With	>			H.S.	1.S. (1815) (1815) (1817) (181			1.5	18				1.5
55 86	+	+		58 R	L	- 1 09		+	+	+	4	65 R -	- BB 99	68 P	- A 69	- M 02	71 LG .	72 V -			Connector No. M34		Connector Name Wike I U Wike	Connector Type NH60MW-TS12				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 5 5 11 14 17 18 18 18 18 18 18 18 18 18 18 18 18 18				Terminal Color Of Class Manua (Consideration)	No. Wire Signal Wallie [Specification]	1 v	2 R -	4 G - [With DRPO]	4 SB - [Without DRPO]		6 R -	7 R -	l		+	+	+H	+++	++++	+++++			

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< WIRING DIAGRAM > [INFINITI INTOUCH]

> 8 - 8 - 3	- [With 2.0L turbo gasoline engine]			7	>	ILLUMINATION CONTROL SIGNAL	36	>	ILLUMINATION CONTROL SWITCH SIGNAL (+)
R	- [With VR30 engine]	78 G	- [With VR30 engine]	00	>	ENCD-A SIGNAL	37	GR	ILLUMINATION CONTROL SWITCH SIGNAL
- B - 3		78 LG	- [With 2.0L turbo gasoline engine]	6	9	SELECT SWITCH SIGNAL	38	Я	VEHICLE SPEED SIGNAL (8-PULSE)
BR -		79 R	•	10	В	PUSH SWITCH B SIGNAL			
٦		80		11	В	SHIELD			
14/	- [With 2.0L turbo gasoline engine]	81 R		12	_	L/R_DETECTION SIGNAL	Connector No.		M58
۸	- [With VR30 engine]	82 LG					Connector Name		COMBINATION METER
9	- [With VR30 engine]	83 BR	- [With 2.0L turbo gasoline engine]						
٨	- [With 2.0L turbo gasoline engine]	83 R	- [With VR30 engine]	Connector No.		M57	Connector Type		TH12FW-NH
BG	- [With 2.0L turbo gasoline engine]	84 ^		Connector Namo		ONABLIA MOTTON	(
œ	- [With VR30 engine]	۸ 98		Collination	1)	CIVIBINATION INTELER	E		
SHIELD		87 6		Connector Type		TH40FW-NH	¥		[
8	- [With VR30 engine]	۸ 68		þ			Ċ		41 42 43 44 45 46
ŋ	- [With 2.0L turbo gasoline engine]	9 06	- [With VR30 engine]	B					77 40 11
8	- [With 2.0L turbo gasoline engine]	۸ 06	- [With 2.0L turbo gasoline engine]	Ę					2
BR	- [With VR30 engine]	91 W		ė E		1 6 7 8 1112 13 14 16 17 18			
٦		92 6			100	1 2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3			
Μ		93 BR			1		Terminal	Color Of	[moistorificant] County (
9		94 GR	- [With VR30 engine]				No.	Wire	olgnal Name [opecification]
SB	- [With 2.0L turbo gasoline engine]	94 L	- [With 2.0L turbo gasoline engine]				41	7	CAN-H
>	- [With VR30 engine]	95 BR	- [With VR30 engine]	Terminal	Color Of	[molecular of part of the part	42	Ь	CAN-L
В	- [With 2.0L turbo gasoline engine]	95 P	- [With 2.0L turbo gasoline engine and without gateway]	N	Wire	olgiidi Ndille [obecilication]	43	8	ILLUMINATION CONTROL SIGNAL
۵	- [With VR30 engine]	95 R	- [With 2.0L turbo gasoline engine and with gateway]	1	8	GROUND	44	>	FUEL LEVEL SENSOR GROUND
88	- [With VR30 engine]	M 96		9	æ	STOP/START OFF SWITCH INDICATOR SIGNAL	45	×	BATTERY POWER SUPPLY
GR	- [With 2.0L turbo gasoline engine]	97 /6		7	9	SECURITY SIGNAL	46	BG	IGNITION SIGNAL [Except with VR30 engine and without ISS
GR	- [With VR30 engine]	۸ 86		80	8		46	В	IGNITION SIGNAL [With VR30 engine and without ISS
Ы	- [With 2.0L turbo gasoline engine]	99 BR	- [With VR30 engine]	11	W	ALTERNATOR SIGNAL	47	SB	AV COMMUNICATION SIGNAL (H)
8		97 66	- [With 2.0L turbo gasoline engine]	12	9	LED HEADLAMP (RH) WARNING SIGNAL	48	97	AV COMMUNICATION SIGNAL (L)
SB	•	100 SHIELD		13	BR	LED HEADLAMP (LH) WARNING SIGNAL	51	BR	FUEL LEVEL SENSOR SIGNAL
M/B				14	>	ACC POWER SUPPLY	52	В	GROUND
٨				16	۸	AIR BAG SIGNAL			
æ		Connector No.	MSS	17	BR	METER CONTROL SWITCH GROUND			
Ь	- [Color of wire differs depending on production]	Connector Name	HOLLOW SWITCH	18	SB	TRIP/RESET SIGNAL	Connector No.		M59
^	- [Color of wire differs depending on production]	COILLECTOI INGILIE	MOLITON CHOIN SWITCH	2.1	8	STEERING SWITCH SIGNAL GROUND	Connector Manne		HOTIMS IOGINOD GETSM
91		Connector Type	TH12FW-NH	22	Ь	STEERING SWITCH SIGNAL A			WEIER CONTROL 3WITCH
BG		[23	W/B	STEERING SWITCH SIGNAL B	Connector Type		TH08FW-NH
-		E		24	_	WASHER LEVEL SWITCH SIGNAL	ľ		
œ	1	· ·	<u> </u>	25	97	BRAKE FLUID LEVEL SWITCH SIGNAL	E		
>	- [With VR30 engine]	Ċ	1001	56	>	PARKING BRAKE SWITCH SIGNAL	· ·		K
≥	- [With 2.0L turbo gasoline engine]		<u>ء</u> ا	27	g	PASSENGER SEAT BELT WARNING SIGNAL	Ź		-
-	- [With 2.0L turbo gasoline engine]		/ 8 9 10 11 12	28	t	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)			
9	- [With VR30 engine]			30	Ť	MANUAL MODE SIGNAL [With 2.0L turbo gasoline engine]			5 6 7
~	- [With VR30 engine]			30	T	MANUAL MODE SIGNAL (With VR30 engine)			
3	- [With 2 OI turbo gasoline engine]	Terminal Color Of		7	·	NON-MANIJAI MODE SIGNAI (With VR30 engine)			
: 8		No Wire	Signal Name [Specification]		, -	NON-MARNITAL MODE SIGNAL DWith 2 Of turbo escoling	Terminal	Color Of	
5 -	100	+		7 6	, ,	MAANITAL MAOOR CHIEFT IN CICKIAL		Wir	Signal Name [Specification]
-	- [with 2.0L turbo gasoline engine]	T PK	III	35	7	MANUAL MODE SHIFT OF SIGNAL	NO.	wie	
8	- [With VR30 engine]	2 W	QND	33	7	MANUAL MODE SHIFT DOWN SIGNAL [With VR30 engine]	1	ď	
۵	- [With 2.0L turbo gasoline engine and without gateway]	+	ENCD-8 SIGNAL	33	۵	MANUAL MODE SHIFT DOWN SIGNAL [With 2.0L turbo gasoline engine]	2	В	
œ	- [With 2.0L turbo gasoline engine and with gateway]	4 R	PUSH SWITCH A SIGNAL	34	BG	PADDLE SHIFTER UP SWITCH SIGNAL	4	BR	
8/M		2 M	PUSH SWITCH C SIGNAL	32	9	PADDLE SHIFTER DOWN SWITCH SIGNAL	2	SB	

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INFINITI INTOUCH (BASE AUDIO WITHOU	T NAVIGA	WITHOUT NAVIGATION) (VR ENGINE)						
- A 9	Connector No.	M98	Connector No.	Г	M101	Connector No.	M103	
7 GR .	Connector Name	DISPLAY CONTROL UNIT	Connector Name		DISPLAY CONTROL UNIT	Connector Name	DISPLAY CONTROL UNIT	
	Connector Tune	T 1FF 4007 F	Connector Tuno	Τ	THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PR	Connector Tune	T 1004007 1	
Connector No. M87	connector type	19co_1334967-3		7	THOU WIND THE	collication type	19to_100496/-1	
l e	E	<u>(</u>	Œ			Œ	4	
Connector Type TK08FGY-1V	ĦS	1 2	ĦS.	L		H.S.	80 81	
		3 4		199	50 50 140 144 141 141 141 141 151 151 151 151 151		82,83	
<u>ر</u> ة		S					84	
25 24 51 32 25 24 51 32 33	Terminal Color Of No. Wire	of Signal Name [Specification]	Terminal (Color Of Wire	Signal Name [Specification]	Terminal Color Of	f Signal Name [Specification]	
	1 6	USB GND	36	97	COMPOSITE IMAGE SIGNAL (-)	80	USB GROUND	
	2 W	USB V BUS SIGNAL	38	SHIELD	SHIELD	81 W	USB V BUS SIGNAL	
Terminal Color Of Gianal Manage (Canadigments)	3	USB D- SIGNAL	40	SHIELD	MANUFACTURER SPECIFIC SIGNAL	82 R	USB D- SIGNAL	
Wire	4 L	USB D+ SIGNAL	42	9	SOUND SIGNAL RH (-)	83	USB D+ SIGNAL	
H	5 SHIELD	SHIELD	43	SHIELD	SHIELD	84 SHIELD	SHIELD	
25 SB -			44	٦	SOUND SIGNAL LH (-)			
31 W/B			45	W	TEL VOICE SIGNAL (+)			
32 ү	Connector No.	M100	46	SHIELD	SHIELD	Connector No.	M105	
33 В .	Connector Name	DISPLAY CONTROL LINIT	47	Я	VOICE GUIDANCE SIGNAL OUTPUT (-)	Connector Name	DISPLAY CONTROL LINIT	
	anne de la companie		48	В	VOICE GUIDANCE SIGNAL INPUT (-)			
	Connector Type	TH24FW-NH	49	W	NS ON/OFF SIGNAL	Connector Type	Tyco_1554987-6	
Connector No. M97			20	В	MICROPHONE SIGNAL GND	4		
Connector Name BACK-LIP LAMP RELAY	厚		┪	SHIELD	SHIELD	彦	Ę	
T	Ě	[/ \]	┪	SHIELD	MICROPHONE SIGNAL GND	Ě	E	
Connector Type MS02FL-M2-LC	2	1617 1920 22	H	>	CAMERA GND	2		
ģ		26 28 29 30 31 33 34	┪	SHIELD	SHIELD		92 93	
			26	æ	COMPOSITE IMAGE SIGNAL (+)		94	
E 3			28	В	CAMERA IMAGE SIGNAL			
11.5.1 1.5.1			09	>	SOUND SIGNAL (-)			
	la I	Signal Name [Specification]	61	В	SOUND SIGNAL (+)	la C	Signal Name (Specification)	
 	No. Wire		┪	œ	SOUND SIGNAL RH (+)	^		
	16 LG	AV COMM (L)	┪	SHIELD	SHIELD	92 W	LVDS (+)	
	17 P	CAN-L	64	>	SOUND SIGNAL LH (+)	┪		
e e	19 R	DIMMER SIGNAL	\dashv	9	TEL VOICE SIGNAL (+)	94 SHIELD	SHIELD	
No. Wire	20 BR	REVERSE SIGNAL	┪	SHIELD	SHIELD			
	22 B	GND	- 67	g	VOICE GUIDANCE SIGNAL OUTPUT (+)			
- [With	26 BR	CAMERA SWITCH SIGNAL	89	W	VOICE GUIDANCE SIGNAL INPUT (+)			
2 W - [With VR30 engine]	28 SB	AV COMM (H)	69	SHIELD	SHIELD			
3 R	29 L	CAN-H	70	9	MICROPHONE SIGNAL			
5 BR .	30 R	IGN [For VR30 engine]	71	9	MICROPHONE SIGNAL [Without telematics system]			
	30 W	IGN [For 2.0L turbo gasoline engine]	7.1	œ	MICROPHONE SIGNAL [With telematics system]			
	31 R	VEHICLE SPEED SIGNAL (8-PULSE)	72	-	MICROPHONE VCC			
	33 SB	ACC [Except for VR30 engine and with ISS]	74	×	CAMERA POWER SUPPLY			
	33 ^	ACC [For VR30 engine and with ISS]						
	34 Y	BAT						

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< WIRING DIAGRAM > [INFINITI INTOUCH]

	Connector Name EXTERNAL DATA INPUT BOX	Connector Type TH12FW-NH	4	序	ŀ	12 13	20 21 22			Terminal Color Of		Μ	В	14 B AUX SOUND SIGNAL RH	8	٨	_	>	¥	22 V ACC [With VR30 engine and with ISS]		Connector No. M159	Connector Name WIRE TO WIRE	, [Connector Type TH40FW-NH		20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1 40 59 58 7 8 58 59 58 59 58 59 59 59 59 59 59 59 59 59 59 59 59 59			Signal Name [Specification]	1	2 0	+				6 W - [Except with VR30 engine and with ISS]	7 L	S	10 W -	11 R -	
			- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [with vk30 engine]	- [with 2:01 turbo gasonine engine]	- [With 2 Of turbo geofine angle]	- [With 2 Of turbo assoline engine]	- [With VR30 engine]	- [With 2 OII turbo gasoline angine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]								M142	>Continue of the continue of t	EXTERNAL DATA INPUT BOX	GT17VS-10DS-HU		N N N N N N N N N N	7 8 9 10		Signal Name [Specification]	1414010 - 0 001	USB D+ SIGNAL	USB V BUS SIGNAL	USB GND	USB GND	USB D- SIGNAL	USB V BUS SIGNAL	USB D+ SIGNAL	SHIELD				
9 9	┞	Н	13 B	+	+	14 3D	+	ł	╀	17 S.R	╁	18 SB	Н	19 SHIELD	20 R	21 R	22 SHIELD	23 L	24		Connector No.	Management	Connector Name	Connector Type	ą	HS.			le l	No.	+	7 c	+	H	80	M 6	10 L	11 SHIELD				
20C W	22C L .	23C L -	25C LG .	26C SB -	+	30C W	3 0	30C B	╀	╀	╀	R - [With 2	W/B	35C SB .	\dashv	37C W -	38C SB -	+	3C P	+	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	╀	70 6	4	9C v -	Connector No. M135	Connector Name JOINT CONNECTOR-M09	Connector Type 24342_4GA2A	6 5 4 3 2	1 40 0	1 1 2 1 3 1 2 1 2 1	2 2			Terminal Color Of	No. Wire Signal Name [Specification]	1 B	2 B .	8	4 B -	S B .	
1 1	FUSE BLOCK (J/B)	NS16FW-CS			58/48 19B	Ę					Signal Name [Specification]						•		1			M133	FLISE BLOCK (1/8)		TH40FW-NH		[33] [45] [55] [45] [45] [45] [45] [45] [45			Signal Name [Specification]								- [Without DRPO]				
Connector No.	Connector Name	Connector Type NS16FW-CS	4	彦	S					Terminal Color Of		118 16	13B P	14B G	15B Y	16B Y	4	48 W	5B R	у 86		Connector No.	Connector Name		Connector Type	图			Toronian Color Of	Nerminal Color of	+	130	130	14C Y	15C R	L	17C L	18C BG	Ш	L	1C R	

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INFINITI INTOUCH (BASE AUDIO		N L	T NAVIGAT	WITHOUT NAVIGATION) (VR ENGINE) Connector No. Maries 40 SHIFID	GIBINS	72	٥	COLIND SIGNAL FRONT IH (+)	Г	
+		3	TO INO.	COTIA	†	SHIELD	`	9	SOUND SIGNAL FROM LH (+)	1
13 G		Connec	Connector Name	AV CONTROL UNIT	42 SB	AV COMM (H)	78	_	SOUND SIGNAL FRONT LH (-)	7
14 Y	-				26 v	AUX IMAGE SIGNAL (-)	79	97	SOUND SIGNAL REAR LH (+)	_
15 B	-	Connec	Connector Type	NH18FW-CS2	27 SHIELD	SHIELD	80	Ь	SOUND SIGNAL REAR LH (-)	
17 B		ſ					81	Μ	TEL VOICE SIGNAL (-)	
19 R			_				82	SHIELD	SHIELD	
BG	- [Except with VR30 engine and with BOSE system]	•		<u></u>	Connector No.	M165	83	œ	VOICE GUIDANCE SIGNAL (-)	I
BR	- [With VR30 engine and with BOSE system]	2	, I	719911181 171818		ALIVE TO MANAGE TO A	84	8	SHIELD	_
t				0 / 0 4 0 7	Connector Name	AV CONTROL UNIT	85	œ	SOUND SIGNAL FRONT RH (+)	ı
22 G				1011121314	Connector Type	TH12FW-NH	98	_	SOUND SIGNAL FRONT RH (-)	_
					ú		87	8	SOUND SIGNAL REAR RH (+)	
25 W					13		88	Μ	SOUND SIGNAL REAR RH (-)	П
		Terminal	nal Color Of	Signal Namo (Spacification)	2	<u> </u>				ı
27 P		No.	Wire	oighal ivalite [openitration]	É	61 62 63 65 66				ı
28 B	•	1	SHIELD	SHIELD		00 00 00 00 00 00 00 00 00 00 00 00 00	Connector No.		M167	
29 G		2	٦	SOUND SIGNAL FRONT LH (+)		2/11/1 60 00 /0	Connector Name		TINIT IURINUS AV	
4		æ	œ	SOUND SIGNAL FRONT LH (-)				,		_
\dashv		4	91	SOUND SIGNAL REAR LH (+)			Connector Type	П	Tyco_1554987-1	7
32 W		2 1	S S	SOUND SIGNAL REAR LH (-)	Terminal Color Of	Signal Name [Specification]	Q.			
7 25			9 >	ACC [Except for VR30 engine and with ISS]	+	SOLIND SIGNAL LH (+)	李			
+				Sec it of vice engine and with the	5 5	SOCIAL SIGNAL SIGNA	2		06 88	
38 [6		x c	W/B	DISK EJECT SIGNAL	A 26	SOUND SIGNAL RH (+)		_	91 92	
$\frac{1}{1}$		۶	+	CONTRACTOR OF THE PARTY OF THE	†	77117				
		1 1	SHIELD	SOLIND SIGNAL EBONT BH (+)	65 SHIELD	SHIELD ALIX SOLIND SIGNAL TH			93	
Noncontrol No.		1 5	+	SOUND SIGNAL MONT WITH	+	COLING COMPCE				
		13	-	SOUND SIGNAL FRONT RH (+)	7 6	SOUND SIGNAL LH (-)	Termina	Color Of		Г
Connector Name WIRE TO WIRE		3 5		() HE REST TOTAL OF THE CONTROL	1	Chillips	ols.		Signal Name [Specification]	
Connector Type NS08FW-CS		4 C	+	SOUND SIGNAL REAR RH (-)	$^{+}$	ALIX SOLIND SIGNAL GND	ο <u>ν</u>	<u> </u>	LISB GND	1
1		2	ď	ONE	ł	HA INDISIGNAL BH	S	W	IISB V BIS SIGNAL	Т
•			$\frac{1}{2}$		+		16	. ~	USB D- SIGNAL	Т
							92	_	USB D+ SIGNAL	Т
H.S.	<u> 2 1 </u>	Connec	Connector No.	M164	Connector No.	M166	88	SHIELD	SHIELD	Т
8	7 6 5 4	Connec	Connector Name	TINIT	Connector Name	TINIT IONTROL				1
							ļ			Г
		Connec	Connector Type	TH40FW-NH	Connector Type	TH16FW-NH	Connector No.	1	M171	Т
al Color Of	Simal Name (Specification)	Œ			B		Connector Name		JOINT CONNECTOR-M01	
No. Wire	ante labernicationi	ŧ			٦		Connector Type	П	24342_4GA2A	\Box
w		2	9	22 1 36 38 39 40	Ş	73 74 75 76 77 78 79 80	Q			
+				42 45 51 56 57		81 82 83 84 85 86 87 88	臣		E E A 2 2 4	
+							SH/		†	
+								_	11 10 9 8 7	
+							_		18 17 16 15 14	
R ::		Terminal	_	Signal Name [Specification]	Terminal Color Of	Signal Name [Specification]			2 0	
>		NO.	2 2	(1) PAPAGO (1)	720 WIFE	TEL VOICE SIGNAL (1)	_		77 77 77	
		77	+	AN COMMINICAL	t	CHIEF POICE SIGNAL (+)				
		8 8	+	AUX IIVIAGE SIGNAL (+)	1	SHIELD				
		200	+	COMPOSITE IMAGE SIGNAL (+)	+	VOICE GUIDANCE SIGNAL (+)				
		39	PI	COMPOSITE IMAGE SIGNAL (-)	76 B	SHIELD				

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< WIRING DIAGRAM > [INFINITI INTOUCH]

	Mith MB30 control	+	- [With	P - [With VR30 engine]	R - [With 2.0L turbo gasoline engine]	R - [With VR30 engine and with ISS]	W - [Except with VR30 engine and with ISS]	R - [With VR30 engine and with ISS]	W - [Except with VR30 engine and with ISS]			M177	DOINT CONNECTOR-MO2		24342_4GA2A			5 4 3 2 1	11 10 9 8	17 16 15 14 13	24 23 22 21 20 19			or Of Signal Name [Specification]	Wire	,		-			a. a.							1								٠,		
15	+	+	1	17	17	19	19 \		7 02			Connector No.	Connector Name	IIII IIII	Connector Type	•	•	Ů	Ž					o e	No.	2	9	4	2	9 1	\ 80	-	10	H	12	13	14	15	16	17	\dashv	+	Z0 \	\dashv	4	23		
Ľ	Τ	Ί			-	7		2	2			Conr	Č	3	Conr	4	B	_	•				L	Ter	2							Ĺ	_	_	_										7		2	
						•			•		•				•									M175	JOINT CONNECTOR-M05	NH20FL-DC				8 / 6 5 4 3 2 1	20 19 17 16 15 14 13 12 11 10			(- (- (- (- (- (- (- (- (- (-	oignal Name (opecinication)													
-	-		_	\	γ	γ	Å	γ	Å	SB	SB	SB	SB	SB	SB	97	FIG.	16	ΓG	ΓC	ΓC		-		Name	Type								Color Of	Wire	L	٦	٦	_	L	٦	٦	٦	Ь	Ь	۵	Ь	Ь
_			9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			Connector No.	Connector Name	Connector Type		E	Š					Terminal	No.	1	2	3	4	2	9	_	∞	10	11	12	13	14
ייין (און בועפוועב)											- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]	 [With VR30 engine and without ISS] 	- [With VR30 engine and with ISS]	- [With VR30 engine and without ISS]	- [With VR30 engine and with ISS]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine and without ISS]	- [With VR30 engine and with ISS]		M174	5 05 4 00 model 11 100 miles	JOIN CONNECTOR-MO4	24342_4GA2A			5 4	11 10 9 8 7	17 16 15 14 13	24 23 22 21 20 19			Signal Name [Specification]	[10000000000000000000000000000000000000			
	ه د	1	œ	œ	æ	æ	ч	SB	SB	SB	7	SB	٦	SB	_	SB	BR	97	BR	97	BR	97	œ	SB	> 0	SB	>	œ	SB	>		r No.		r Name	r Type										Wire	_	_	_
[[7		00	6	10	11	12	13	14	15	16	16	17	17	18	18	19	19	20	20	21	21	22	22	22	23	23	24	24	74		Connector No.		Connector Name	Connector Type	4	B	Ě	į					Terminal	No.	н	2	6
	Signal Name [Specification]					•							•			- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]				- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		di	M173	JOINT CONNECTOR-M03	24342_4GA2A			5 4 3 2 1	11 10 9 8 7	17 16	81 02 12			Signal Name [Specification]					•	
3		ı	J.															_		_	_	_	_	-	_																							_
Terminal Color Of	Wire		8	8	В	8	8	8	8	В	80	9	9	8	8	SB	γ	SB	Υ	SB	>	g	9	91	88 <u>-</u>	3 88	97	SB			_	Connector Name	Connector Type									Terminal Color Of	Wire	_	٦	_	_	_

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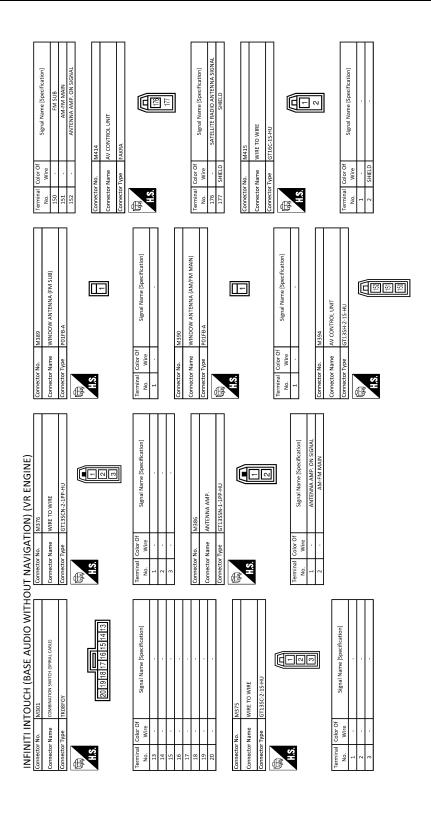
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< WIRING DIAGRAM > [INFINITI INTOUCH]

	А
NH	В
144 MWRETO 1741 MRETO	С
Connector No.	D
cification]	Е
1 1 2 3 4 5 5 5 5 5 5 5 5 5	F
No.	G
Connector Conn	Н
WRE P-HU Signal Name [Specification] Signal Name [Specification]	I
WIRE TO WIRE GTI-6C-1PP-HU GTI-6C-1PP-HU Signal Name [Spec	J
Connector Name Connector Name Connector Type 12 SHELD Connector Name Connector Na	К
	L
Infinite	M
INFINITI INTOUCH (Connector No. M416	AV
Connector Non Terminal Color No. Connector No. Connector No. Connector Name C	0
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INFIN	N	TOUCH (BASE AUDIO WITH	INFINITI INTOUCH (BASE AUDIO WITHOUT NAVIGATION) (VR ENGINE)
11	ď		Connector No. R19
12	7	-	Commenter Name (Report All/Possions (Acting points CANCE) Attitud
13	9		
14	٨	-	Connector Type TK02FBR
15	В		(
17	88		
19	BG		
20	BG	- [Without BOSE system]	
20	BR	- [With BOSE system]	1 2
21	~		
22	9		
24	9		
52	BG	- [Color of wire differs depending on production]	Terminal Color Of Class Manua (Consideration)
25	Ь	- [Color of wire differs depending on production]	No. Wire Signal Manne (Specification)
56	BR		1 W -
27	GR		2 LG .
28	В		
29	œ	-	
30	٦		Connector No. R20
31	>		Consocios Namo Deso Mirecounte (Arrive Mose Pance) Array)
32	Μ		
33	٦	-	Connector Type TK02FBR
36	BR		
38	8S		
40	Μ		
			13.
Connector No.	or No.	R16	
Connector Name	or Name	WIRE TO WIRE	
Connector Type	or Type	NS08MW-CS	Terminal Color Of
d			$\overline{}$
事			1 GR -
	_	4 5 6 7 8	
Terminal	Color Of	Signal Name [Specification]	
-	≥		
7	œ		
m	>		
4	Α		
9	В		
7	GR		
œ	>		

JRNWF6601GB

< WIRING DIAGRAM > [INFINITI INTOUCH]

INFINITI INTOUCH (BOSE AUDIO WITHOUT NAVIGATION)

Wiring Diagram

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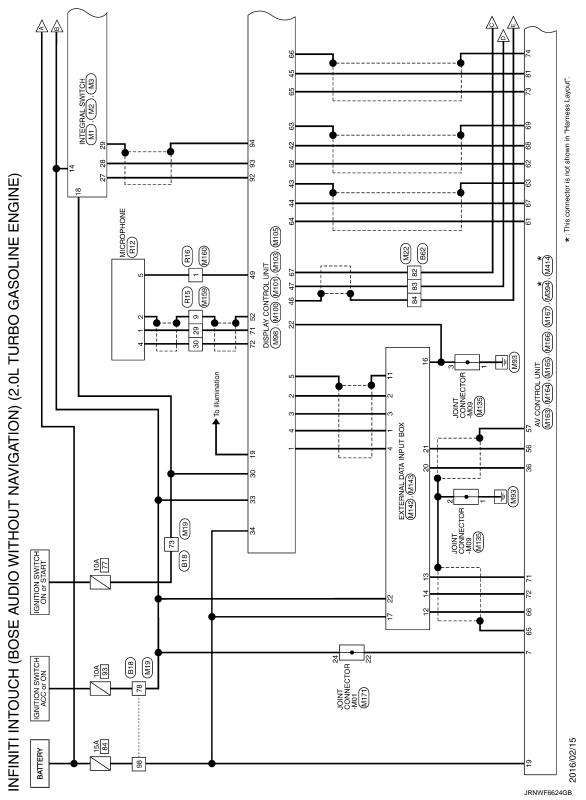
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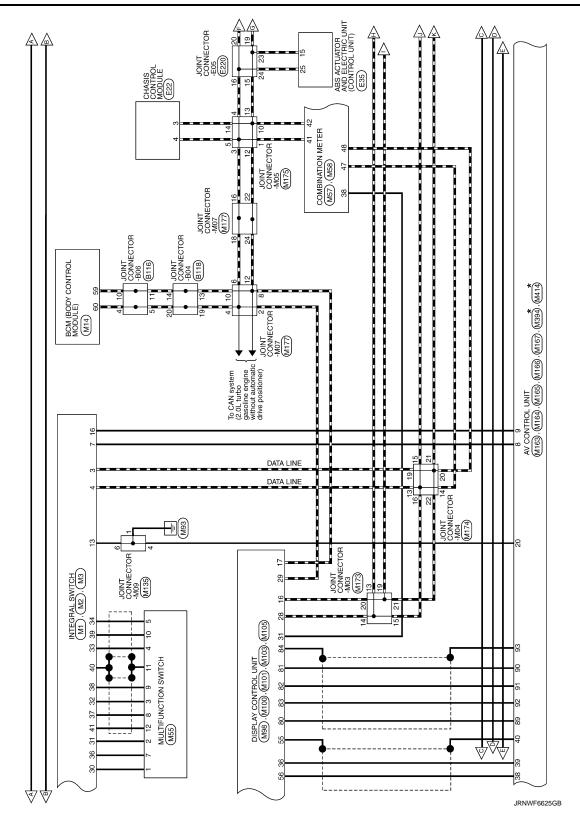
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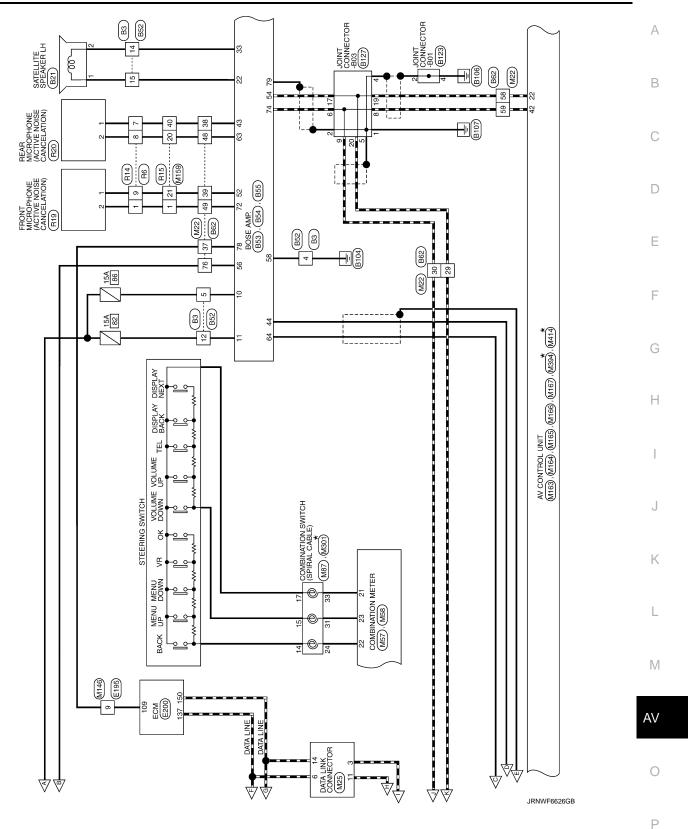
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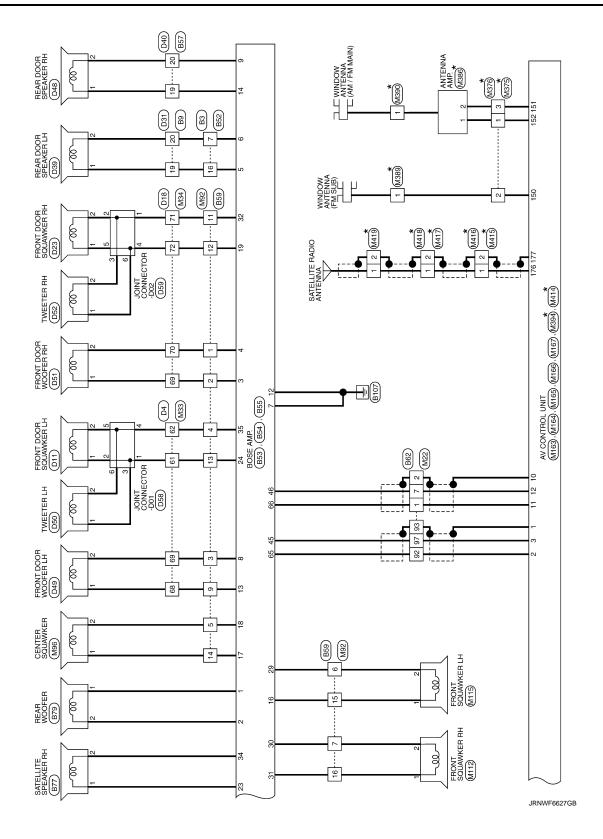
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2.0L TURBO GASOLINE ENGINE









< WIRING DIAGRAM > [INFINITI INTOUCH]

89 W - (With VR30 engine)	GR	H		>	BR	98 Y - [Except with VR30 engine and with BOSE system]		Connector No. B21	Connector Name SATELLITE SPEAKER LH				ú	<u> </u>	[21]			Terminal Color Of	Io. Wire Signal Name [Specification]	1 W	2 B .			Connector No. B52	Connector Name WIRE TO WIRE	Connector Type NS16MW-CS	1			2 3	8 9 10 11 12 13 14 15 16			- 1	<u>_</u>	No. Wire	1 L .		5 BR - [With BOSE system]	5 Y - [Without BOSE system]	7 R .	8 SHIELD -	- d 6	11 8 .
Ľ	6	6	36	.6	8) T	1	Conn	Conn	Juno		ø ∏	\ 	1	1	T	T	Term	Š	Ľ	2			Conn	Comp	June 1		ø T				1	1	 	Term	ž	1		2	2	_	°	6	1:1
	•		٠				1 4				,		•					•										1	- [Without paddle shift]	- [With paddle shift]				- [With VR30 engine]	 [With 2.0L turbo gasoline engine] 					- [Without paddle shift]	- [With paddle shift]			- [With 2.0L turbo gasoline engine]
NE)	В	9	Ь	м	SB	9 .	4 8	88	BG	BG B	* >	SB	>	97	œ .	× 3	3 >	g.	9	9	BG	BR	Υ	~	¥ 3	s a	> >	_	æ	>	BR	В	SB	>	>	В	Я	BG	- -	Я	^	8	9	۸
	33	34	32	36	37	ee :	41	45	43	44	20	51	52	23	25	3 5	ò 25	65	9	19	62	63	64	99	2 7	1 6	73	74	75	75	76	77	78	79	79	81	82	83	84	82	82	98	88	89
WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE) 19 16 .Without BOSE system] 32		ľ			lo. B18	ame WIRE TO WIRE	VDE THROEW-CS16-TM4	1			F				Color Of Signal Name [Specification]	Wire	- 5		- 10	· ·		۸		BG .		91 89			^	. · ·	BR -			$\frac{1}{1}$	R - [With 2.0L turbo gasoline engine]	Y - [With VR30 engine]	P - [With 2.0L turbo gasoline engine and without gateway]	- [With 2.0L to	W - [With VR30 engine]					BR - [With 2.0L turbo gasoline engine]
Š⊢	H	_			Connector No.	Connector Name	Connector Type		Z	H.S.	ı				ja .	$^{+}$	\dagger	ļ.,	4	-	9	7	8	10	1 5	7 5	14	15	16	18	19	20	22	23	24	24	25	25	25	56	27	28	31	31
¥ ª	20	2	l	- 1	51	5	5	11	1年	ਢ				J	E.	Š,	1	1	ľ	2	"			- 1		- 1		T`	` '	"		- 1		J	11	```I		1 1	1 1					
			NS16FW-CS			7 6 F 4 F 3 3 4 Con	13 12 11 10 9 R		E		Signal Name [Specification]			- [With BOSE system]													WIRE TO WIRE				6 5 4 3 2 1		12	18 17 16 15 14			Cianal Mame [Casarification]							- [With BOSE system]
INFINITI INTOUCH (BOSE AUDIO WITHOUT NA connector No. 83		Connector Name WIRE TO WIRE	Connector Type NS16FW-CS			1001	16 15 14 13 12 11 10 9 8		修					I	- [Without BOSE system]			8					BR -		Commonder No	1	Connector Name WIRE TO WIRE	Connector Type NH10FW-CS10			6 5 4 3 2 1		19 13 12 11 10 9 g	18 17 16 15 14				ognal Name [Specification]	. 91			^		BR - [With BOSE system]

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Connector No. 659 Connector Name WIRE TO WIRE Connector Type NSIGFW-CS To 6 5 4 1 3 2 1 To 15 14 13 12 11 10 9 8	o o	5 CK 6 7 CK	++++	Connector No. B62 Connector Name WIRE TO WIRE Connector Type TH80FW-CS16-TM4	1.55 1.55 1.55 1.55 1.55 1.55 1.55 1.55	Terminal Color Of Signal Name Specification No. Wire No. Wire Signal Name Specification
MGINE	Connector No. 657 Connector Name WIRE TO WIRE Connector Type NH10FW-CS10	20 19 13 12 11 10 10 9 8 7	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) 1 LG 2 W	7 8 7 8 7 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9		
MITHOUT NAVIGATION (2.0L TURBO GASOLINE ENGINE) S4	Mure Sound Signal Name (Specification) Wire SOUND Signal Rohl Stocker Rohl Stocker (H) BR SOUND SIGNAL CENTER SQUAWKER (+) GR SOUND SIGNAL CENTER SQUAWKER (-) W SOUND SIGNAL CENTER SQUAWKER (-) W SOUND SIGNAL CENTER SQUAWKER (-)	SOUND SIGNAL FRONT SOUNAVER RH (+) SOUND SIGNAL FORD SIGNAL FORD TH (+) SOUND SIGNAL FORD TH (+) SOUND SIGNAL FORD TH (+) SOUND SIGNAL FORD SIGNAL FOR	B SOUND SIGNAL FRONT RH (-)	Connector No. BSS Connector Name BOSE AMP. Connector Type TH40FWANH	H.S. 12 12 12 12 12 12 12 12 12 12 12 12 12	Terminal Color Of Signal Name Specification 43 W. REAR MICKOPHONE GND 44 R VOICE GUIDANCE SIGNAL (-) 45 R SOUND SIGNAL H (-) 46 B SOUND SIGNAL RH (-) 52 R FRONT MICROPHONE GND
INFINITI INTOUCH (BOSE AUDIO WITHOL 12 GR	H.S. 1413 12 11 10 9 8 7 6 5 14 3 2 1	Terminal Color Of Signal Name (Specification) Wire Signal Name (Specification) 1	# c a > d 6	10		

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[INFINITI INTOUCH] < WIRING DIAGRAM >

	Connector No. 877	Connector Name SATELLITE SPEAKER RH	Connector Type TK02FBR	4		6						lar	No. Wire	4	2 P .			Connector No. B79	Connector Name REAR WOOFER		Connector Type NS02FW-LC	á	(A)			2 1			Toursian		NO. WIFE																		
	- [With 2.0L turbo gasoline engine]			- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]	 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]	- [With VR30 engine]	 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]	- [With VR30 engine]	 [With 2.0L turbo gasoline engine] 		- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [with 2:0t turbo gasoline engine]	- [With VR30 engine] - [With VR30 engine]	- [With 2.0L turbo gasoline engine and with BOSE system]	- [With 2.0L turbo gasoline engine and without BOSE system]		- [With VR30 engine and with BOSE system]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine and without BOSE system]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]										
(E)	>	۵ _	œ	GR	>	В	œ	G	SHIELD	œ	>	BR	SHIELD	98	ŋ	ď	>	91	SHIELD	Γe	Ь	>	7	≥	ч	SHIELD	æ .	٠,		٤ 3	≥ -	4 62	3	97	BR	Ь	γ	BR	W										
ENGIL	76	77	79	80	80	81	81	85	82	83	83	84	84	82	82	98	98	87	87	88	90	90	95	95	93	93	94	56	s s	g d	92	64	97	86	66	66	66	100	100										
NFINITI INTOUCH (BOSE AUDIO WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE)		W - [With 2.0L turbo gasoline engine] P - [With 2.0L turbo gasoline engine and without BOSE system]	t	W - [With 2.0L turbo gasoline engine and with BOSE system]	. ·	P - [With VR30 engine and without BOSE system]	+	W - [With VR30 engine and with BOSE system]	. 9			SHIELD -	- a	- [With	G - [With VR30 engine]	SHIELD .	. 9	. BG	. 9	٠ .		W - [With 2.0L turbo gasoline engine]	Y - [With VR30 engine]		GR .		> 4	× 9			P - [With VR30 engine]	- With	_	w	. 91			GR - [With 2.0L turbo gasoline engine]	R - [With VR30 engine]	G - [With VR30 engine]	Y - [With 2.0L turbo gasoline engine]	- [With 2	SHIELD - [With VR30 engine]	BG - [With 2.0L turbo gasoline engine]	L - (With VR30 engine)	GR - [With 2.0L turbo gasoline engine]	ŀ		
UT NA	36	36	37	37	38	39	39	စ္က	40	41	42	43	44	45	45	46	47	48	49	20	51	52	25	23	24	22	99	2	n s	8 5	1 6	69	63	64	99	89	69	7.1	71	72	72	73	73	74	74	75	75	16	
TOUCH (BOSE AUDIO WITHO	- [With 2.0L turbo gasoline engine]	- [With VR30 engine and with BOSE system] - [With VR30 engine and without BOSE system]	. [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	 [With 2.0L turbo gasoline engine] 	- [With 2.0L turbo gasoline engine and with BOSE system]	 [With VR30 engine and without BOSE system] 	 [With VR30 engine and with BOSE system] 	- [With 2.0L turbo gasoline engine and without BOSE System]	 [With VR30 engine and with BOSE system] 	 - [With 2.0L turbo gasoline engine] 	 [With VR30 engine and without BOSE system] 	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]						 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]								- [With 2 Of turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]			- [With 2.0L turbo gasoline engine]	- [With VR30 engine]			- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		- (With VB30 engine)	- [With 2.0L turbo gasoline engine]	900000
N	BR	∝ ≥	а	\	9	>	BG	æ	T	T	*	>	8	9	┪	P7	SHIELD	>	GR	٨	œ	BG	BG	æ	>	۵	_	× 8	ž .	٤ ;	> 3	. B	>	٦	SB	9	W	R	FIG	FIG.	۵	SHIELD	٦	В	91	SHIELD	9	3 >	
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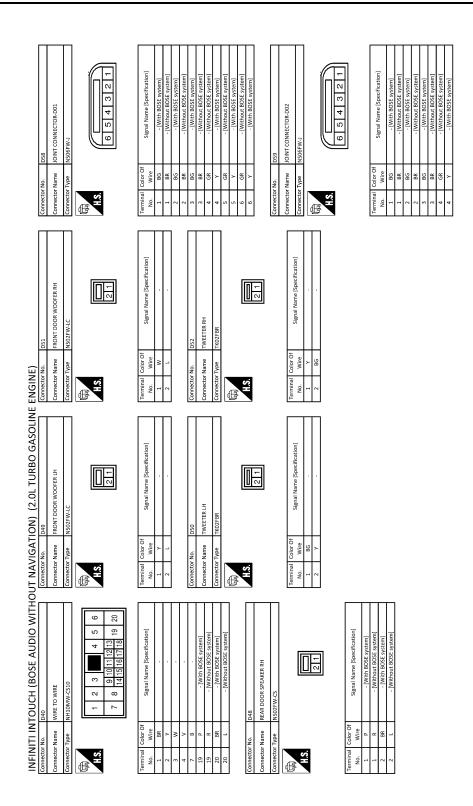
INFI	IN IN	INFINITI INTOUCH (BOSE AUDIO WITHC	N TO	AVIGA:	WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE)	IE ENGIN	(E)					
Connector No.	Ш	8116	Conne	Connector No.	8118	19	٦	- [With 2.0L turbo gasoline engine]	2	SHIELD		
Connector Name		IOINT CONNECTOR-BOG	Conne	Connector Name	JOINT CONNECTOR-BOA	19	SHIELD	- [With VR30 engine]	9	۵		
	Π					20	_	- [With 2.0L turbo gasoline engine]	7	а		
Connector Type		24342_4GA2A	Conne	Connector Type	24342_4GA2A	20	SHIELD	- [With VR30 engine]	8	Ь		
ć	_		4			21	L	- [With 2.0L turbo gasoline engine]	6	Ь		
				•		21	SHIELD	- [With VR30 engine]	10	97	- [With VR30 engine]	
Į		6 5 4 3 2 1	•	ſ	6 5 4 3 2 1	22	æ		10	SHIELD	- [With 2.0L turbo gasoline engine]	
2		12 11 10 9 8 7	=	'n.	12 11 10 9 8 7	23	œ		11	97	- [With VR30 engine]	
		18 17 16 15 14 13			18 17 16 15 14 13	24	æ		11	SHIELD	- [With 2.0L turbo gasoline engine]	
		24 23 22 21 20 19			24 23 22 21 20 19				13	8		
									14	2		
						Connector No.		B123	12	2 22		
Terminal	Color Of		Terminal	inal Color Of			Г		17	16		
No.		Signal Name [Specification]	No		Signal Name [Specification]	Connector Name		JOINT CONNECTOR-B01	18	91		
-	_			91	- [With VR30 engine]	Connector Type		TK04FW-J	19	97		
2	٦		г	SHIELD	- [With				20	97		
	_		7	97	- [With VR30 engine]	Œ						
4	٦		2	SHIELD	[With 2.0L turbo gasoline engine]							
2	_		F	SHIELD		ý E N		11/2/2/1	Connector No.		D4	
9	٦		4	91	- [With VR30 engine]			1				
7	œ		4	SHIELD	- [With 2.0L turbo gasoline engine]				Connector Name		WIRE TO WIRE	
œ	α	- [With Gateway]		t	L				Connector Type		NH60FW-TS12	
0	: >	- [Without Gateway]	, ,	Į.	- Iwith					1	1	
,		Manage appearant	ľ	t	1	The state of the state of	0-1-0		₫.			
5 0	¥ ;	- [With Gateway]	۰ و	t		lermina	Color Of	Signal Name [Specification]	生			
n	>	- [Without Gateway]	٥	<u>۲</u>	4	o N	wire		SH.			
10	œ	- [With VR30 engine]	_	œ	- [Color of wire differs depending on production]	1	SHIELD		2			
10	>	- [With 2.0L turbo gasoline engine]	7	>	- [Color of wire differs depending on production]	2	SHIELD				72 77 70 80 80 87 STEMPRINGERS	
11	>		∞	PT PT	- [With 2.0L turbo gasoline engine]	3	В	- [With 2.0L turbo gasoline engine]			1	
12	Д	- [With Gateway]	∞	ж	- [With VR30 engine and without paddle shift]	3	SHIELD	- [With VR30 engine]				
12	æ	- [Without Gateway]	00	>	- [With VR30 engine and with paddle shift]	4	В					
13	SHIELD		6	91	- [With 2.0L turbo gasoline engine]				Terminal	Color Of	Contraction Country	
14	SHIELD		6	æ	- [With VR30 engine and without paddle shift]				No.	Wire	oglial ivalite [specification]	
15		- [With 2.0L turbo gasoline engine]	6	>	- [With VR30 engine and with paddle shift]	Connector No.		8127	2	SB		
15	SHIELD	- [With VR30 engine]	10	97 (- [With 2.0L turbo gasoline engine]			CONTRICTOR DO	4	BG		
16	_	- [With VR30 engine]	10	C SHIELD	- [With VR30 engine]			OIN CONNECTOR-BOS	2	Я		
16	SHIELD	- [With 2.0L turbo gasoline engine]	11	97 1	- [With 2.0L turbo gasoline engine]	Connector Type		NH20FG-DC	9	^		
17	_	- [With VR30 engine]	11	T SHIELD	. [With VR30 engine]	1			7	91		
17	SHIELD	- [With 2.0L turbo gasoline engine]	12	57	- [With 2.0L turbo gasoline engine]	E			∞	G		
18	٦	- [With VR30 engine]	12	SHIELD	L				6	S.		
100	SHELD	- (With 2.0L turbo gasoline engine)	13	t		HS		987654321	10	>		
19	-		13	~	- IWith 2.0L turbo gasoline engine and without gateway			17	11	SHELD		
10	CHIFTID		7	a	- [With 2 0] turbo easoline engine and with pateway]			6 6.	12	ş		
20	-	- [With 2 0] turbo gasoline engine]	14	H	- [With VR30 engine]				13	-		
2 02	SHIFID		14	4 0	- IWith 2.0L turbo gasoline engine and without gateway				14	, 6		
2 2	1	familia activity		+	Court of the court	Toronian	Color Of		,	,		
21	، د		1	+	- (with 2.0t turbo gasonine engine and with gateway)	No.	0 000	Signal Name [Specification]	13	- 5		
77 2	، ،		4 :	+	- [With VK30 engine]	ď,	wire		q t	ž (
23	ه ۵	to a second control	12	æ .	- [With 2.0L turbo gasoline engine]		8		17	~ 6		
24	۵	- [With VR30 engine]	19	_		2	SHIELD		18	æ		
24	>	- [With 2.0L turbo gasoline engine]	17	-		е	SHIELD		19	ď		
			18	3		4	SHIELD	-	20	×		

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< WIRING DIAGRAM > [INFINITI INTOUCH]

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Connector No. Connector Name Connector Type Terminal Color Of No. Wire 1 8R 20 BR	D
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23 FRONT DOOR SQUAWKER RH TX0276R Signal Name (Specification)	F
R	G
FNGINE 1 1 1 1 1 1 1 1 1	Н
NITE INTOUCH BOSE AUDIO WITH OUT NAVIGATION (2.01 TURBO GASOLINE ENGINE) 13 1 1 1 1 1 1 1 1	I J
PERONT DOOR SEPTING SE	
Connector Name Conn	К
WITHC	L
OUCH (BOSE AUDIO W - Color of wire differs depending on product - (Color of wire differs depending on product - (М
1 1 1 1 1 1 1 1 1 1	AV
NH NH NH NH NH NH NH NH	
	JRNWF6632GB

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< WIRING DIAGRAM > [INFINITI INTOUCH]

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ECM ADMASZE BAHZG BENDO WAS SE BAHZG BENDO	С
46 Y	D
	Е
With TO WRE TYSERWANSIO Signal Name (Specification) Signal Name (Specification)	F
	G
Comector Name Commercer Name Comme	Н
No. Control	I
SAZ30FB-SIZ4-U SAZ30FB-SIZ4-U SAZ30FB-SIZ4-U SIgnal Name [Specification ONAUE BATTER! With VIR30 e VALVE BATTER! WITH SIXON EVONES RE HA WHELE SENSOR POWER FR HA WHELE SENSOR POWER FR HA WHELE SENSOR SOWN IN ONC UNIT SENSOR POWER FR HA WHELE SENSOR POWER ONLY UNIT SENSOR POWER FR HA WHELE SENSOR POWER ONLY UNIT SENSOR POWER ONLY UN	J
NAVIGATION Connector Name Connector Name Connector Type State Stat	К
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1. Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without BOSE system] - Without Gateway] - CAN-L With Gateway] - CAN-L With Gateway] - CAN-L With Gateway] - CAN-L With Cateway] - CAN-L With Canada Canada - CAN-L With Canada Canada - CAN-L With Canada - CAN-L	M
No. E22 No.	AV
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	JRNWF6634GB

Revision: November 2016 **AV-185** 2016 Q50

< WIRING DIAGRAM > [INFINITI INTOUCH]

INFINITI INTC	NFINITI INTOUCH (BOSE AUDIO WITHO	∕N TUC	VIGATIO	WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE)	IE ENGIN	(E)				
Connector No. E22	20	13	8	GND	37	Μ	ENCD-A SIGNAL	Connector No.		M19
Connector Name JOII	JOINT CONNECTOR-E05	14	SB	ACC [For 2.0L turbo gasoline engine]	38	U 4	SELECT SWITCH SIGNAL PISH SWITCH R SIGNAL	Connecto	Connector Name	WIRE TO WIRE
Connector Type NH	NH24FB-J	15	· m	ILLUMINATION CONTROL SIGNAL	40	В	SHIELD	Connector Type	Г	TH80MW-CS16-TM4
		16	BG	DISK EJECT SIGNAL GROUND	41	7	L/R_DETECTION SIGNAL	4	_	
彦		18	œ	IGN [For VR30 engine]				彦		8
S I	0.00	82	> 1	IGN [For 2.0L turbo gasoline engine]		-		HE		
Series Control	12 12 12 12 12 12 12 12 12 12 12 12 12 1	13	BR.	CAMERA SWITCH SIGNAL	Connector No.		M14		_	
	2 8 8 8	20	51	AIR BAG INDICATOR OFF SIGNAL	Connector Name		BCM (BODY CONTROL MODULE)			8 U 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
					Connector Type	Γ	TH40FB-NH			22
		Connector No.	or No. M2	12	ſ					
lal (Signal Name [Specification]	Connect	Connector Name	INTEGRAL SWITCH	唐			Terminal)	Signal Name [Specification]
No. Wire		1		C C C C C C C C C C C C C C C C C C C	Si	۰		No.	Wire	
A -		Colline		yco_1554987-5			25 84 65 65 66 66 66 66 66 66 66 66 66 66 66	1 (- u	
+ 1		€					75 V V	۰ م	, 8	
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) L		N. Y.							>	
╁			ı	27 28	Terminal	Color Of		9		,
15 P	- [Without Gateway]			2	N _O		Signal Name [Specification]	_	>	
15 R	- [With Gateway]			â	48	œ	PUSH-BTN IGN SW ILL PWR		>	
16 L					52	g	DONGLE LINK	10	BG	
19 P	- [Without Gateway]	Terminal	I Color Of		25	>	COMM LINE	=	ä	
19 R	- [With Gateway]	No.	Wire	Signal Name [Specification]	55	œ	RAIN SENSOR	12	91	
20 L		27	Α	(+)	59	a	CAN-L	13	GR	
23 P	- [Without Gateway]	28	8	(-) SOAT	09	٦	CAN-H	14	œ	
23 R	- [With Gateway]	59	SHIELD	SHIELD	61	9	REAR WINDOW DEF RLY CONT	15	_	
24 L					62	œ	STARTER RLY CONT	16	>	
					64	>	I-KEY WARN BUZZER	18	≥	
		Connector No.		M3	9	ю	OUTS HD LAMP CONT	19	BB	
Connector No. M1	1	Connect	Connector Name	INTEGRAL SWITCH	99	B	BLOWER FAN RLY CONT [With VR30 engine]	50	≥	
Connector Name INT	INTEGRAL SWITCH		T		99	>	BLOWER FAN RLY CONT [With 2.0L turbo gasoline engine]	22	SB	
		Connect	Connector Type	TH12FW-NH	29	M/B	IGN RLYAY (F/B) CONT	23	œ	•
Connector Type TH24FW-NH	24FW-NH	Q			89	œ	DIMMER	24	œ	 [With 2.0L turbo gasoline engine]
ą		唐			69	æ	A/T SHIFT SELECT PWR SPLY	24	>	- [With VR30 engine]
唐) III		/ \ \	70	9	IGN RLYAY (IPDM E/R) CONT	52	۵	 [With 2.0L turbo gasoline engine]
	7	4	-	30 31 32 33 34	71	G	DR DOOR REQ SW	52	≥	- [With VR30 engine]
Sil.	2 3 4 7 8			26 27 20 20 40 41	72	SB	PASS DOOR REQ SW	56	ŋ	
<u>1 - </u>	13 14 15 16 18 19 20				75	BR	COMBI SW INPUT 5	27	œ	
21					76	BG	COMBI SW INPUT 4	28	æ	
					77	^	COMBI SW INPUT 3	31	BR	
		Terminal	I Color Of	Signal Name (Specification)	78	٨	COMBI SW INPUT 2	32	В	
Terminal Color Of	Cianal Namo [Coorification]	No.	Wire	organist annual Copering arrond	79	97	COMBI SW INPUT 1	33	В	
No. Wire	orginal realine [openingation]	30	BR	ILL	80	٦	TR LID OPNR SW	34	^	
\dashv	ILLUMINATION SIGNAL	31	>	GND				32	۵	
\dashv	AV COMM (L)	32	œ	ENCD-B SIGNAL				36	≽	1
+	AV COMM (H)	33	œ	PUSH SWITCH A SIGNAL				37	SB	
1	DISK EJECT SIGNAL	34	>	PUSH SWITCH C SIGNAL				88	١ او	
ъ «	HAZERD SIGNAL	36	>	ILLUMINATION CONTROL SIGNAL				40	۵	

JRNWF6635GB

< WIRING DIAGRAM > [INFINITI INTOUCH]

4	Connector No.	M22	25	SB	- [With VR30 engine]	99	ď	
42 BR -	Connector Name	WIRE TO WIRE	56	U	- [With VR30 engine]	89	-	
		Autr 10 Wille	26	W	- [With 2.0L turbo gasoline engine]	69	۵	
44 BR -	Connector Type	TH80MW-CS16-TM4	27	В		7.1	GR	- [With 2.0L turbo gasoline engine]
			59	91		71	~	- [With VR30 engine]
W	E	ш	30	SB	- [With VR30 engine]	72	o	- [With VR30 engine]
ŀ	THE	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	30	A	- [With 2 0] turbo gasoline engine]	72	>	- [With 2.01 turbo gasoline engine]
╀	20		t	CHILID		73	<u>e</u>	edings aniloses others 10 C 441M) -
		33	t	-		7.5	CILLIA	Ž
			;	,	0.4044 3.0000		-	(animal series)
×			66	0	- [with vkso engine]	4	1	- [with viso engine]
55 R			┪	91	 - [With 2.0L turbo gasoline engine] 	74	97	 [With 2.0L turbo gasoline engine]
			34	SHIELD		75	Ь	
- × × × × × × × × × × × × × × × × × × ×	Terminal Color Of	(32	91	- [With VR30 engine]	9/	SB	- [With 2.0L turbo gasoline engine]
	No. Wire	olgnal Name [opecification]	35	×	- [With 2.0L turbo gasoline engine]	26	>	- [With VR30 engine]
L	1.0		36	~	l_	77	>	
	-	Louises Made Alban	96	>	- DMith 2 Of trutho reaching	10	-	
+	7	- [with vksu engine]	eg.	}	- [with 2.0t turbo gasoline engine]	×	4	
62 BG .	2 SHIELD	 [With 2.0L turbo gasoline engine] 	37	œ	- [With VR30 engine]	79	9	
-	3 BR	 [With 2.0L turbo gasoline engine] 	37	^	 [With 2.0L turbo gasoline engine] 	80	GR	 [With 2.0L turbo gasoline engine]
	3	- [With VR30 engine]	38	*		80	*	- [With VR30 engine]
┝	4 SHIELD	- [With VR30 engine]	33	Ь	- [With VR30 engine and without BOSE system]	81	80	- [With VR30 engine]
91	t	- Mith 2 Of turbo gasoline angine	30	~	- [With 2 Ol turbo gasoline engine]	ă	α	- Mith 2 III thrho gasoline
2 3	- (Dariet vices called and the library	3 8	: ;	Date very series and make poor	5 6	, ا	Chitte 2 of tech 2 describe engine
	+	- [With VASO engine]	60	-	- [with was eighe and with bost system]	70	9 1	- [with 2:00 tubo gasonine engine
m	+	 [With 2.0L turbo gasoline engine] 	40	5		82	SHELD	- [With VR30 engine]
73 W -	9 BG	- [With VR30 engine]	41	_		83	œ	 With 2.0L turbo gasoline engine
T	e BR	- [With 2.0L turbo gasoline engine]	42	æ		83	M	- [With VR30 engine]
W	91 2	- [With VR30 engine]	43	SHIELD		84	BR	- [With VR30 engine]
88	7 P	- [With 2.0L turbo gasoline engine]	t	Ь		84	SHIELD	- fWith 2.0L turbo gasoline engine
╀	œ	- (With 2 Of turbo gasoline engine)	45	ď	- [With 2 Ol turbo gasoline engine]	ž,	RR	- [With VR30 engine]
, 8	ł	DWith 1000 certical	2	,	DANIEL MODO CONTO	3 6	,	Davish 2 Of truth according
30	+	- [With VASO engine]	†	9 8	- [with vrocengine]	8	, ,	- [with 2.0t tubo gasoline engine
+	†	- [With 2.UL turbo gasoline engine]	†	OJI I		8	× :	- [With 2.0L turbo gasoline engine
/9 W - [With Z.UL turbo gasoline engine]	9 SHIELD	- [With VR30 engine]	4/	و		ŝ	>	- [With VK30 engine]
\dashv	10 ^		48	┪	 [Except with VR30 engine and with BOSE system] 	87	91	- [With VR30 engine]
82 R	11 GR		48	BR	 [With VR30 engine and with BOSE system] 	87	SHIELD	 [With 2.0L turbo gasoline engine]
83 BG .	12 V		49	9		88	BR	- [With VR30 engine]
1	13 LG		20	>		88	91	- [With 2.0L turbo gasoline engine]
	14 16		51	>		06	SB	- [With 2.0L turbo gasoline engine]
	+	- Mith 3 Of turbo assoline angine)	62	-	- fMith 2 Of turbo gasoline engine	S	>	- MAith WB30 coming
a (+	[with 2.0t tubo gasonine engine]	7 (2	. ;	- [with 2.0t tubo gasonine engine]	8	<u>, .</u>	[augua con mina] -
: و	+	- [with vks0 engine]	25	-	- [with vk30 engine]	36	_	- [with 2.0L turbo gasoline engine]
v - [with	16 SB	- [With DCM]	23	×		92	>	
89 W - [With VR30 engine]	16 V	- [Without DCM]	24	GR		93	В	- [With VR30 engine]
	17 Y		55	7		93	SHIELD	 [With 2.0L turbo gasoline engine]
ac	- 28		95	۵		46	α	
$^{+}$	+					č	-	Cations and and Category
+	+		ñ	۷		Ĉ.	,	- [with 2.0c turbo gasonne engine]
>	20 GR		28	ΓC		92	Υ.	- [With VR30 engine]
98 BR - [With VR30 engine and with BOSE system]	21 R		29	SB		96	œ	- [With 2.0L turbo gasoline engine]
>	22 V		61	-		96	M	- [With VR30 engine]
	23		3		. [With 2 OI turbo gasoline engine]	0	-	- (Mith WR30 page)
	$^{+}$	Carried of Contract Contract Contract	3 5	. 3	Dates and Second Second Confirms	5	ه د	Contract of the second
	500	- [with 2.0t turbo gasonine engine]	70	,	- [אוותו מעסם פוולווומ]	ñ	٤	- [With 2.0c turbo gasonine engine
	74 v	- [With VR30 engine]	69	-		86	BK	•
	25 L	- [With 2.0L turbo gasoline engine]	64	×		66	BR	 [With VR30 engine and with BOSE system]

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19 B	} >	SHIELD	22 B .	- B8	23 P - [With DRPO]	24 6 -	25 LG .	26 BG - [Without DRPO]	26 BR - [With DRPO]	27 R .	SB	29 BG - [Without DRPO]	29 W/8 - [With DRPO]	30 L	49 P	52 V -		S6 SB -	57 G	58 6 .		60 R	_		65 BR -	+	69 BR -	+	71 SB			Connector No. M55	١		Connector Type TH12FW-NH	4				1 2 3 4 5	7 8 9 10 11 12						
ENGINE)	╀	H	58 R	. 9 65	09	61 6 .	62 R	e3 v	64 B -	65 R ·	BR -		·	\dashv	71 LG .	72 v -			Connector No. M34	Connector Name IMIDE TO MIDE		Connector Type NH60MW-TS12	Q		88 88	1 4 7 15 3 15 15 2 2 3	\$ 6 9 12 15 15 15 15 15 15 15 15 15 15 15 15 15				Signal Name [Specification]	+	2 R -	4 G - [With DRPO]	4 SB - [Without DRPO]		6 R	7 R .		9 GR	10 V -	11 Y -	Н	14 W -	16 G .	17 8 -	18 W -
WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE) Ferminal Color of Signal Name [Specification] S3	×		. 9				GR .	. · · · ·	SHIELD -		SB		,			W/B	LG - [With DRPO]	Y - [Without DRPO]			BG - [Without DRPO]	G - [With DRPO]			BG - [Without DRPO]	L - [With DRPO]	· ·	GR	· · · · · · · · · · · · · · · · · · ·		W 88	S8	. 1	ВВ .	- 91			٠.	SB	W - [Except with VR30 engine and without ISS]	Y - [With VR30 engine and without ISS]	BG .	BR .	. 9	٠ .		BR -
T NAVIC	╁	4	2	9	7	8	6	10	11 SF	12	13	14	15	16	17	\dashv	19	19	20	21	22	22	23	-	\dashv	25	+	+	28	67	31	╁	H	34	35	36	37	40	41	43	43	44	46	47	49	90	52
NITI INTOUCH (BOSE AUDIO - (With 2.0L turbo gasoline enginy P - (With Y830 engine and without BOS)	Т	w - [with			Connector No. M25	Connector Name DATA LINK CONNECTOR		Connector Type BD16FW	4		/ / / / / / / / / / / / / / / / / / / /	.c.n	3 4 5 6 7 8				le	No. Wire	3 LG M_CAN_L	4 B EARTH	S B EARTH	6 L CAN-H	KLINE	W KLINE ()	*	4	œ	7	+	Te W POWER	•	Connector No. M33	١,	COLLIECTO INGLIE O WINE	Connector Type NH60MW-TS12	4			1.3 (8) (8) (8) (8) (8) (8) (8) (8) (8) (8)	1 4 7 6 8 6 8 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3 6 9 12 15 18 12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13]

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< WIRING DIAGRAM > [INFINITI INTOUCH]

Connector Name CEVITES SQUAWKER Connector Type TX02FBR	Terminal Color of Signal Name Specification
Connector Name Contentor Swifter (SPIRAL CR8E) Connector Type TKOSF OF 1V TKOSF O	Terminal Color Of
31 1 1 1 1 1 1 1 1 1	Connector Name
Signal Name [Specification] ILL GND ENCD-8 SIGNAL PUSH SWITCH SIGNAL PUSH SWITCH SIGNAL ILLUMINATION CONTROL SIGNAL EKCD-A SIGNAL SELECT SWITCH SIGNAL PUSH SWITCH SIGNAL	Signal Name [Specification] GROUND STOP/START OFF SWITCH INDICATOR SIGNAL LED HEADLAMP (141) WARNING SIGNAL LED HEADLAMP (141) WARNING SIGNAL LED HEADLAMP (141) WARNING SIGNAL TO POWER SIGNAL METER OFF SWITCH SIGNAL STEERING SWITCH SIGNAL STEERING SWITCH SIGNAL STEERING SWITCH SIGNAL STEERING SWITCH SIGNAL BRANK FOUR FOL SWITCH SIGNAL STEERING SWITCH SIGNAL PASSENGES SWITCH SIGNAL BRANK FOUR SWITCH SIGNAL PASSENGES SWITCH SIGNAL PASSENGES SAT REL WARNING SIGNAL PASSENGES SAT REL WARNING SIGNAL PASSENGES SAT REL WARNING SIGNAL STEERING SWITCH SIGNAL PASSENGES SAT REL WARNING SI
10. Wire O. Wi	Connector No. Connector Name Connector Name Connector Name Terminal Color Off No. Wire No. Wire 11 0 G R 8 B G 7 G G R 13 B B B 13 B R 14 V 16 V 16 V 16 C C C 22 C C 23 W/P 25 C C 26 C C 27 C C 28

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Connector No. M115 Connector Name RRONT SQUAWKER LH Connector Type TRO2TER TRO2TER TRO2TER	Terminal Color Of Signal Name Specification 1	Terminal Color Of Name Signal Name Specification 10. Wire 1.	
Connector No. MIDS Connector Name DISPLAY CONTROL UNIT Connector Type Typo 1554987-6 Typo 1554987-6 92 89	Terminal Color Of Signal Name (Specification) No. Write Signal Name (Specification) Signal Name (Specification)	Terminal Color Of Signal Name (Specification) No. Write 1 LG 2 L	
WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE) 45	8 В В В В В В В В В В В В В В В В В В В	e e	Terminal Color Of Mine Signal Name (Specification) No. Wine 80 G 181 W 182 R 183 L 184 USB D-SIGNAL 82 R 83 L 94 SHIELD 54HELD SHIELD
INFINITI INTOUCH (BOSE AUDIO WITHOU Connector No. M100 Connector Name DISPLAY CONTROL UNIT Connector Tri24 PW-3NH Connector Type Tri24 PW-3NH H.S. Tri24 PW-3NH	or Of	Connector No. MJ01 Connector Type TH40FW-XNH TH40FW-XNH SS S S S S S S S S S S S S S S S S S	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) 36 SHELD SHELD 40 SHELD MANUFACTURES SPECIFIC SIGNAL 41 STELD SHELD 42 SHELD SHELD 43 SHELD SHELD 44 L SOUND SIGNAL IH (-)

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< WIRING DIAGRAM > [INFINITI INTOUCH]

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Seept with VR30 engine and with BOSE system] With VR30 engine and with BOSE system] BE TO WIRE Signal Name (Specification)	В
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9 SHELD 10 W W 111 R 112 R 113 G 114 Y 115 B 115 B 116 B 117 B 117 B 117 B 117 B 118 C 118 B 118 C 119 B 119 B 110 W 110	D
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WIRTO WIRE THACEWANH THACEWANH Signal Name (Specification) Signal Name (Specification) Signal Name (Specification) Signal Name (Specification)	F
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Terminal Color (Connector No. Wing. 19.0 1.0	Н
L DATA INPUT BOX NH TED [13] 14 16 [17] AUX SOUND SIGNAL LH AUX SOUND SIGNAL LH AUX AUDIO AUX AUDIO AUX SIGNAL (1) AUX MADIO AUX SIGNAL (1) AUX MAGE SIGNAL (1) AUX M	1
TION) (2.0L TURBO GASOLIN M4.43 EXTERNAL DATA INPUT BOX TH12.PWAH Signal Name [Specification] AUX AUDIO- AUX MAGE SIGNAL (H GND BAT AUX INAGE SIGNAL (H AUX INAGE SI	J
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MISS	SOUND SIGNAL FRONT LH (+) Terminal Color Of	No.	SOUND SIGNAL REAR LH (+) 1 B -	1(-) 2	NAL (-) 3	VOICE GUIDANCE SIGNAL (-) 5 B -	SHELD 6 B	SOUND SIGNAL FRONT RH (+) 7 B .	SOUND SIGNAL FRONT RH (-) 8 B -	SOUND SIGNAL REAR RH (+) 9 B -	11	H	8	SB	16 Y - [With 2.0L turbo gasoline engine]	17 Y - (With:	SB		03 90 01 02 01 02	22	SB - [With	91	SB - [With	1 ISB GND 24 CB - [With 2 0] turbo assoline angine]	INAL	USB D- SIGNAL Connector No. M173	Connector Name	Т	1	LOINT CONNECTOR-MOI H.S. 12 11 10 9 17		18 17 16 15 14	2 L	٦ .
M163		7.8	79	80	+	t	H	L	98 r	+	$\frac{1}{2}$	99 39			Т				\		SNALLH		Terminal	No.	8 8	${\mathbb H}$	Н			Connector Name Connector Type	87 88	cification]	NAL (+)	
M163	OUT NAVIGATION) (2.0L TURE	SB	^	SHIELD			L	0)	П	1		Į.	00 20 10 20 10 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	60 00 70		Color Of	Wire	۸	۳ <u>وا</u>	SHIELD	×	1	ŋ	SHIELD	: 00		Ш			.S.	83 84 85	Color Of Wire	8 Gins	SHIELD
	וכז	V CONTROL LINIT		NH18FW-CS2			0 4 1 1 1 0	1 2 3 4 0 7 0 9	10 11 12 13 14			Signal Name [Specification]	SHIELD	SOUND SIGNAL FRONT LH (+)	SOUND SIGNAL FRONT LH (+)	SOUND SIGNAL REAR LH (+)	ACC [Except for VR30 engine and with ISS]	ACC [For VR30 engine and wit				SOUND SIGNAL FRONT RH (-)	SOUND SIGNAL REAR RH (+)	SOUND SIGNAL REAR RH (-) RAT	GND		M164		TH40FW-NH	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c				

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[INFINITI INTOUCH] < WIRING DIAGRAM >

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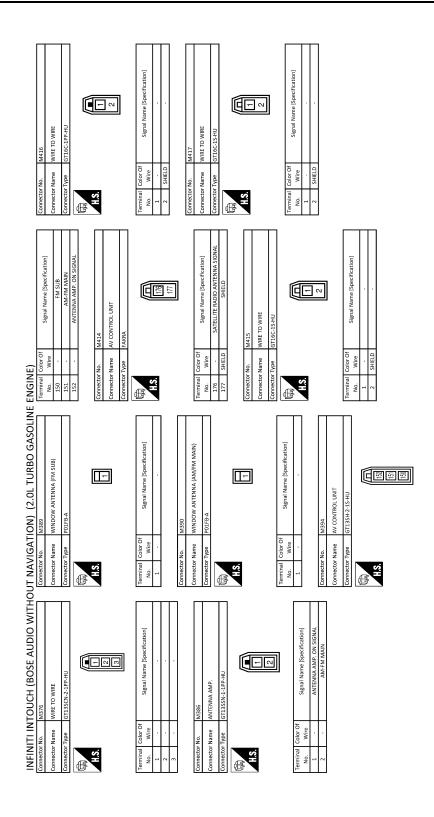
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< WIRING DIAGRAM > [INFINITI INTOUCH]

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[INFINITI INTOUCH]

INFINITI INTOUCH (BOSE AUDIO WITHOUT NAVIGATION) (2.0L TURBO GASOLINE ENGINE)

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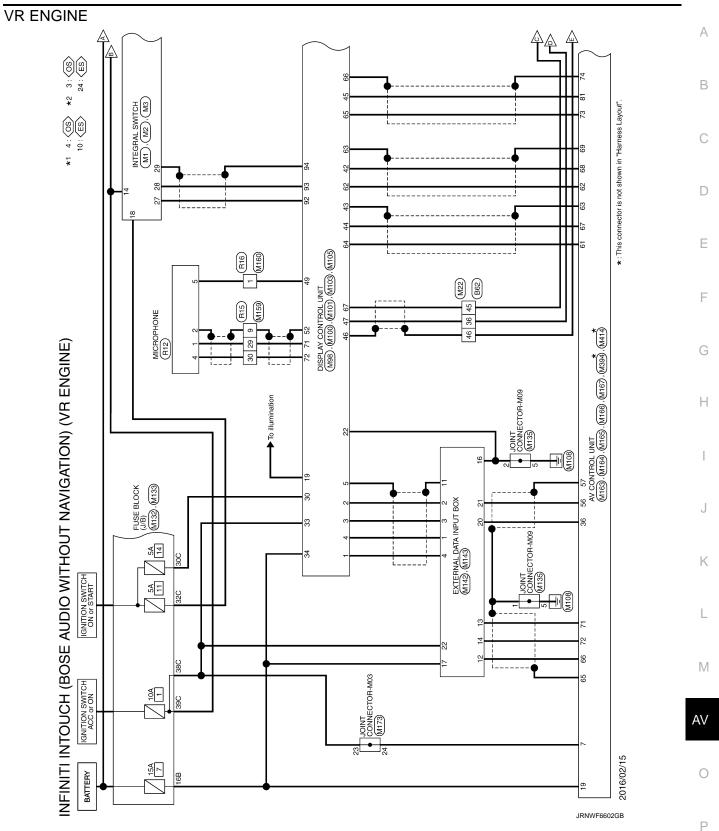
ecification]			
Signal Name [Specification]			
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Terminal No.	1	2	

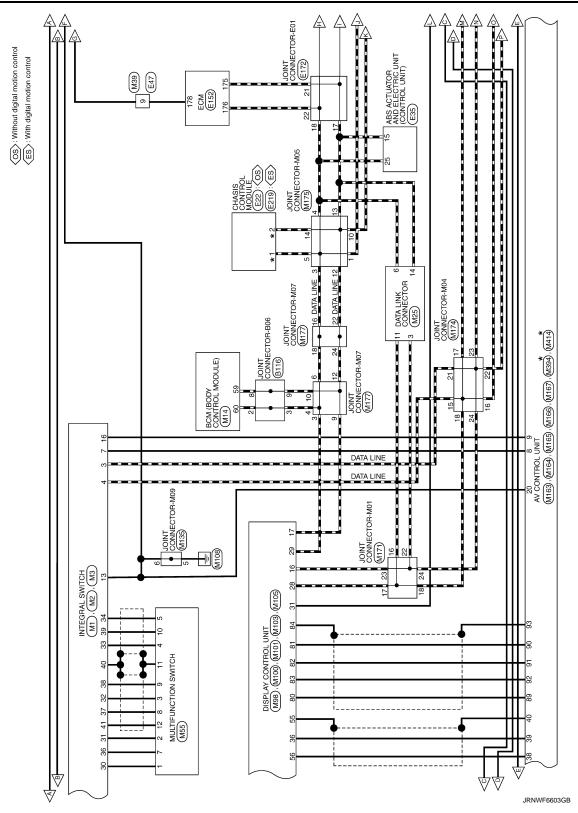
Connector No. R	Connector Name RI	Connector Type T	H.S.
R20	REAR MICROPHONE (ACTIVE NOISE CANCELLATION)	TKOZFBR	<u> </u>

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< WIRING DIAGRAM > [INFINITI INTOUCH]





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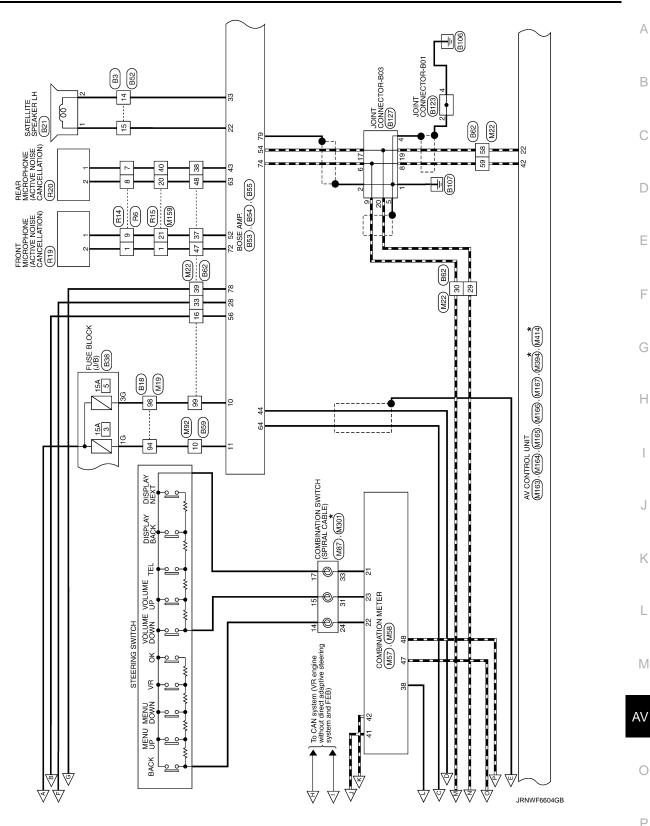
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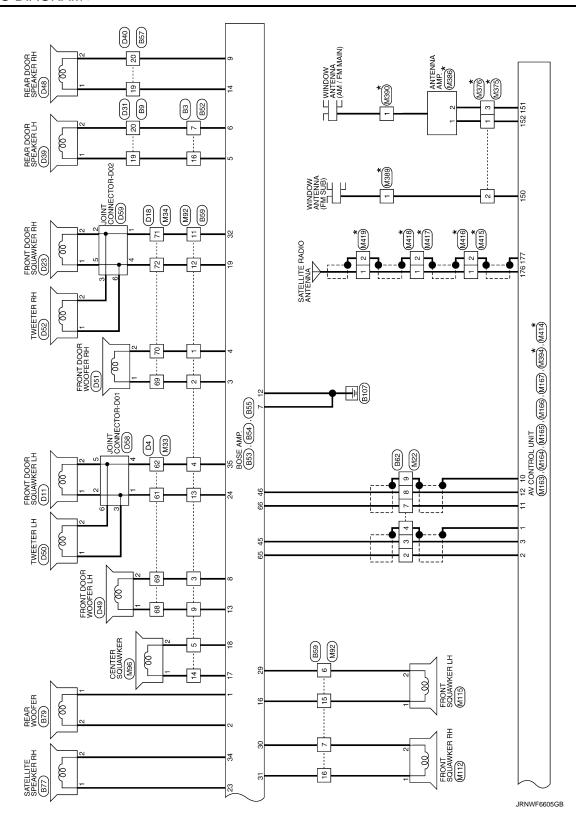
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< WIRING DIAGRAM > [INFINITI INTOUCH]

Н	\dashv	94 GR .	+	V 79	۲ <u>۵</u> >			Connector No. B21	Connector Name SATELLITE OPEAKER I H		Connector Type TK02FBR	4				2 1				Terminal Color Of	No. Wire Signal Name [Specification]	t	2 В -			Connector No. B38	Connector Name FLISE RLOCK (1/R)	П	Connector Type NS10FW-CS	4	Mith	39 2916	96 99				Terminal Color Of Signal Name (Specification)	Wire	1G GR .	26 W -	3G BR -	L	GR				
	,																														DMishout and the	- [With paddle shift]				- [With VR30 engine]	- [With 2.0L turbo gasoline engine]					- [Without paddle shift]	- [With paddle shift]			- [With 2.0L turbo gasoline engine]	
В	В	91	Ь	× 5	ac U	3 -	SB	BR	BG	98	Я	Α	SB	^	97	æ	æ	*	>	æ	c	ی	BG	BR	*	Я	œ	>	e :	> -	٦ ٥	: >	BR	9	SB	^	×	В	ч	BG	_	œ	>		G	>	
32	33	34	35	36	20	40	41	42	43	44	46	20	5.1	25	53	54	55	57	22	29	09	19	62	63	64	99	70	7.1	72	73	75	75	9/	77	78	79	79	81	82	83	84	85	85	98	88	68	
- [Without BOSE system]		SB - [Without BOSE system]		Connection No.	Т	Connector Name WIRE TO WIRE	Connector Type TH80FW-CS16-TM4					8				Terminal Color Of	No. Wire Signal Name (Specification)	t		_	4 16	+		· · · · · · · · · · · · · · · · · · ·	. 91 8	10 BG ·	11 BG -	+	7	14 R	15 1 21	+	19 BR -	20 W -	22 R -	23 V -	24 R - [With 2.0L turbo gasoline engine]	>-	25 P - [With 2.0L turbo gasoline engine and without gateway]	V - (With 2.0L to	25 W - [With VR30 engine]	9	27 R	28 R	31 B - [With V830 engine]	BR - [With	
19 LG	20	20		1	3	S	Š	[[9	ß	-	3					Term	z													_	-		!	_			_	_			_						•
Н	Connector Name WIRE TO WIRE	WINE TO WINE	Connector Type NS16FW-CS			7 6 5 4 T 3 2 1	16 15 14 13 12 11 10 9 8 Con				Color Of Signal Name (Specification)	Wire			BR - [With BOSE system]	Y - [Without BOSE system] Term									BR .			Connector No. B9	Connector Name WIRE TO WIRE	_			3 2 1]	11	18 17 16 15 14			Color Of Signal Name [Specification]		. 91	- 91				BR - [With BOSE system]	

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< WIRING DIAGRAM > [INFINITI INTOUCH]

INFINITI INTOUCH (BOSE AUDIO		Ž «	AVIGA:	WITHOUT NAVIGATION) (VR ENGINE)	Connector No.	RSS	7 R	
COLLECTION NO.			<u>-</u>	SOOIND SIGNAL TROIN DOON WOOFEN EH (*)	2011000	660	+	
Connector Name WIRE TO WIRE		o 5	a 8	SOUND SIGNAL REAR DOOR SPEAKER RH (-)	Connector Name	BOSE AMP.	19 L	
Connector Type NS16MW-CS		11	8	BAT	Connector Type	TH40FW-NH		
ı		12	В	GND				
<u>[</u>	- 11	13	۵ 1	SOUND SIGNAL FRONT DOOR WOOFER LH (+) SOUND SIGNAL REAR DOOR SPEAKER RH (+)	E		П	
1 2 3					S	56 56 46 45 44 45	a	
211110118	13 14 15	Connec	Connector No.	B54		12 12 12 12 12 12 12 12 12 12 12 12 12 1	Connector Type NS16FW-CS	
		Connec	Connector Name	BOSE AMP.			F	
Terminal Color Of Signal	Signal Name [Specification]	Connec	Connector Type	SCA19FBR-SGA4	Terminal Color Of No. Wire	Signal Name (Specification)	7 6 5 1	4 3 2 1 13 12 11 10 9 8
H		E			43 W	REAR MICROPHONE GND		JI.
8		Š	,	Johologo Pologo	44 R	VOICE GUIDANCE SIGNAL (-)		
BR	- [With BOSE system]		9	35 34 33 34 31 30 29 20	+	SOUND SIGNAL LH (-)	T	
	- [Without BOSE system]				4p	SOUND SIGNAL RH (-)	Mir.	Signal Name [Specification]
× SHED					54 K	AV COMM (1)	$^{+}$	
t					+	ACC ACC	- 1	
11 8		Terminal	al Color Of		28 8	ENGINE TYPE SIGNAL 1	> 8	
12 GR		No.	Wire	Signal Name [Specincation]	63 BG	REAR MICROPHONE SIGNAL	4 R	
┝		16	-	SOUND SIGNAL FRONT SQUAWKER LH (+)	64	VOICE GUIDANCE SIGNAL (+)	5 GR	
14 B		17	BR	SOUND SIGNAL CENTER SQUAWKER (+)	7 es	SOUND SIGNAL LH (+)	> 9	
15 W	1	18	8	SOUND SIGNAL CENTER SQUAWKER (-)	M 99	SOUND SIGNAL RH (+)	7 r	1
		19	^	SOUND SIGNAL FRONT RH (+)	72 G	FRONT MICROPHONE SIGNAL	9 b	
		22	Μ	SOUND SIGNAL SATELLITE SPEAKER LH (+)	74 P	AV COMM (H)	10 GR	
		23	1	SOUND SIGNAL SATELLITE SPEAKER RH (+)	78 W	ENGINE SPEED SIGNAL	11 B	
Connector No. B53		24	9	SOUND SIGNAL FRONT LH (+)	79 SHIELD	SHIELD	12 W	
Connector Name BOSE AMP.		28	8	ENGINE TYPE SIGNAL 2			13 G	-
П		59	>	SOUND SIGNAL FRONT SQUAWKER LH (-)			14 BR	
Connector Type SGA12FBR-SJA2		30	_	SOUND SIGNAL FRONT SQUAWKER RH (-)	Connector No.	857	15 P	-
ģ		31	۵	SOUND SIGNAL FRONT SQUAWKER RH (+)	Connector Name	WIRE TO WIRE	16 P	-
图	[32	8	SOUND SIGNAL FRONT RH (-)				
	֧֡֝֝֟֝֝֟֝֝֝֝֟֝֝֝֟֝֝֝֟֝֝֟֝֝֝֟֝֝֟֝֝ ֪֪֪֪֓֞֞֩֞֩֞֩֩֓֓֓֞֩֩֞֩֓֞֩֞֩	33	80	SOUND SIGNAL SATELLITE SPEAKER LH (-)	Connector Type	NH10FW-CS10		
14 13	- 10 - 10	34	۵	SOUND SIGNAL SATELLITE SPEAKER RH (-)	ć			
7 8 8 7	6 5 4 3 2	32	œ	SOUND SIGNAL FRONT LH (-)				
					HS	6 5 4 3 2 1		
						131211110 9		
Terminal Color Of						17 16 15 1		
Wire	Signal Name [Specification]							
æ	SOUND SIGNAL REAR WOOFER (+)							
2 L SOUND SI	SOUND SIGNAL REAR WOOFER (-)				lei	Signal Name [Specification]		
3 L SOUND SIGNAL	FRONT DOOR WOOFER RH (+)				No. Wire			
>	SOUND SIGNAL FRONT DOOR WOOFER RH (-)				1 LG			
BR	SOUND SIGNAL REAR DOOR SPEAKER LH (+)				2 W			
+	SOUND SIGNAL REAR DOOR SPEAKER LH (-)				+			
7 B	GND				>	-		

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[INFINITI INTOUCH] < WIRING DIAGRAM >

INFIN	N	NFINITI INTOUCH (BOSE AUDIO WITHOUT NAVIGATION) (VR ENGINE)	UT N	4VIGA	rion) (vr engine)						
Connector No.	No.	862	22	>		61	٦		96 W	- [With VR30 engine]	
Connector Name		WIRE TO WIRE	23	\dashv		62	۵	- [With VR30 engine]	97 L	- [With VR30 engine]	1
			24	BG	- [With 2.0L turbo gasoline engine]	62	>	- [With 2.0L turbo gasoline engine]	-	- [With 2.0L turbo gasoline engine and with BOSE system	stem]
Connector Type	Type	TH80FW-CS16-TM4	24	>	- [With VR30 engine]	63	٦		+	- [With 2.0L turbo gasoline engine and without BOSE system	rstem]
á			25	-	- [With 2.0L turbo gasoline engine]	64	≯		_		Ī
医			25	SB	- [With VR30 engine]	99	91		4	- [With VR30 engine and with BOSE system]	[w
Ę		7 CSC 2 DSC	56	+	- [With VR30 engine]	89	_		99 66	- [With 2.0L turbo gasoline engine]	T
2		2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	56		- [With 2.0L turbo gasoline engine]	69	Ь		_	- [With VR30 engine and without BOSE system	tem]
			27	œ		7.1	GR	- [With 2.0L turbo gasoline engine]	4	- [With VR30 engine]	7
		1200	53	97		71	æ	- [With VR30 engine]	100 W	- [With 2.0L turbo gasoline engine]	
			30	91	- [With 2.0L turbo gasoline engine]	72	ŋ	- [With VR30 engine]			
			30	а	- [With VR30 engine]	72	>	- [With 2.0L turbo gasoline engine]			
lal	Color Of	Signal Name [Specification]	31	SHIELD		73	œ	- [With 2.0L turbo gasoline engine]	Connector No.	877	
No.	Wire	- 1	32	-		73	SHIELD	- [With VR30 engine]	Connector Name	SATELLITE SPEAKER RH	
1	BR	- [With 2.0L turbo gasoline engine and without BOSE System]	33	8	- [With VR30 engine]	74	BG	- [With 2.0L turbo gasoline engine]			1
1	LG	- [With VR30 engine]	33	PP	- [With 2.0L turbo gasoline engine]	74	٦	- [With VR30 engine]	Connector Type	TK02FBR	
1	W	- [With 2.0L turbo gasoline engine and with BOSE system]	34	SHIELD		75	GR	- [With 2.0L turbo gasoline engine]	4		
2	٦	- [With VR30 engine]	32	91	- [With VR30 engine]	75	۸	- [With VR30 engine]	E		
2	SHIELD	- [With 2.0L turbo gasoline engine]	35	Μ	- [With 2.0L turbo gasoline engine]	9/	SR	- [With VR30 engine]	É		
3	BR	- [With 2.0L turbo gasoline engine]	36	œ	- [With VR30 engine]	76	۸	- [With 2.0L turbo gasoline engine]	2	<u>I</u>	
3	Я	- [With VR30 engine and with BOSE system]	36	۸	- [With 2.0L turbo gasoline engine]	7.7	d			2 1	
9	Α	- [With VR30 engine and without BOSE system]	37	۵	- [With 2.0L turbo gasoline engine and without BOSE system]	78	٦				
4	SHIELD	+	37	æ	- [With VR30 engine]	79	R				
4	>	- [With 2.0L turbo gasoline engine]	37	>	- [With 2.0L turbo gasoline engine and with BOSE system]	80	GR	- [With 2.0L turbo gasoline engine]			
2	9	- [With VR30 engine]	38	۸		80	Μ	- [With VR30 engine]	Terminal Color Of	JC	
S	>	- [With 2.0L turbo gasoline engine]	39	۵	- [With VR30 engine and without BOSE system]	81	В	- [With VR30 engine]	No. Wire		
9	BG	- [With VR30 engine]	33	œ	- [With 2.0L turbo gasoline engine]	81	æ	- [With 2.0L turbo gasoline engine]	1 L		
9	BR	- [With 2.0L turbo gasoline engine]	39	Μ	- [With VR30 engine and with BOSE system]	82	9	- [With 2.0L turbo gasoline engine]	2 P		
7	В	- [With 2.0L turbo gasoline engine and with BOSE system]	40	9		82	SHIELD	- [With VR30 engine]			
7	BR	- [With VR30 engine and without BOSE system]	41	_		83	æ	- [With 2.0L turbo gasoline engine]			[
7	Α	- [With VR30 engine and with BOSE system]	42	œ		83	Μ	- [With VR30 engine]	Connector No.	879	
7	٨	- [With 2.0L turbo gasoline engine and without BOSE System]	43	SHIELD		84	BR	- [With VR30 engine]	Connector Name	BEAR WOOFER	
80	В	- [With VR30 engine and with BOSE system]	44	Ь		84	SHIELD	- [With 2.0L turbo gasoline engine]	COIIIECTOI MAILE	NEAR WOOLEN	
∞	9	- [With 2.0L turbo gasoline engine]	45	8	- [With 2.0L turbo gasoline engine]	85	BG	- [With VR30 engine]	Connector Type	NS02FW-LC	
00	٨	- [With VR30 engine and without BOSE system]	45	9	- [With VR30 engine]	85	9	- [With 2.0L turbo gasoline engine]	4		
n	PI	- [With 2.0L turbo gasoline engine]	46	SHIELD		98	œ	 [With 2.0L turbo gasoline engine] 	B		
6	SHIELD	- [With VR30 engine]	47	9		98	M	- [With VR30 engine]	Ę		
10	۸		48	BG		87	91	- [With VR30 engine]	Ŝ.]	
11	GR		49	9		87	SHIELD	- [With 2.0L turbo gasoline engine]		2 1	
12	>		20	>		88	97				
13	œ		51	æ		06	d	- [With 2.0L turbo gasoline engine]			
14	BG		25	>	- [With 2.0L turbo gasoline engine]	06	>	- [With VR30 engine]			
15	BG	- [With 2.0L turbo gasoline engine]	52	>-	- [With VR30 engine]	92	٦	- [With 2.0L turbo gasoline engine]	Terminal Color Of		
15	GR	- [With VR30 engine]	23	œ		95	Μ	- [With VR30 engine]	No. Wire	olgnal Ivame [specification]	
16	>		54	æ		93	ď	- [With VR30 engine]	1 R	,	
17	۵		55	-		93	SHIELD	- [With 2.0L turbo gasoline engine]	2 L	,	
18	[-		26	>		94	~]
19	œ		57	~		95	٦	- [With 2.0L turbo gasoline engine]			
50	S. S.		88	F		95	>	- [With VR30 engine]			
27	2		g g	╁		96	. ~	- [With 2 01 turbo gasoline engine]			
1			}	+		3		[with section of control of the cont			

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Ĭ,		INFINITI INTOUCH (BOSE AUDIO WITHC	AN TUC	VIGA	WITHOUT NAVIGATION) (VR ENGINE)							
Connector No.	or No.	8116	Connector No	or No.	8123	15	BG		32	_		
Connect	Connector Name	IOINT CONNECTOR-BO6	Connect	Connector Name	IOINT CONNECTOR-B01	17	91		33	BR		
3			170	all land	SOUND CONNECTION DOL	18	16		34	ı		
Connect	Connector Type	24342_4GA2A	Connector Type	or Type	TK04FW-J	19	ΓC	-	35	В	-	
Q			ą			20	PΠ		36	GR		
多			唐						37	9		
H.S.		6 5 4 3 2 1 12 11 10 9 8 7	HS			Connector No	Γ	2	40	91	[Color of wire differs depending on production] [Color of wire differs depending on production]	
		17 16 15 14 13			11432111				4	-	from the distriction of the control	
		23 22 21 20 19				Connector Name		WIRE TO WIRE	43	98	,	
						Connector Type	Н	NH60FW-TS12	44	>		
						4			46	W		
Terminal)	f Signal Name (Specification)	Terminal	١	f Signal Name (Specification)	B			47	R		
No.	Wire		No.	Wire) I			49	BR		
1	٦		1	SHIELD		2		जन जन	20	В		
2	7		2	SHIELD				72 71 70 60 60 60 50 50 50 50 50 50 50 50 50 50 50 50 50	25	۸	•	
e	_		3	8	- [With 2.0L turbo gasoline engine]				23	GR		
4	٦		m	SHIELD					22	GR	- [Color of wire differs depending on production]	
2	_		4	8					55	SB	- [Color of wire differs depending on production]	
9	_					Terminal	Color Of	3 3 3	26	BR		
7	~					No.	Wire	Signal Name [Specification]	57	æ		
. 0	α	- [With Gateway]	Connector No	No.	8137	2	g		00	-		
۰	: >	Delishout Catemary			0.427	7 <	200		8 6	, ,		
٥	، ا	Decet Catemay	Connect	Connector Name	JOINT CONNECTOR-B03		3 6		3 8	,		
0	٤ :	- [With Gateway]	Connector Tuno	True True	04 0400 mg	0	٤ :	1	8 5	9 5		
n	>	- [Without Gateway]	Connect	n Iype	NHZUFG-DC	٥	>		19	2		
10	œ		á	_		7	97		62	*		
10	>	- [With 2.0L turbo gasoline engine]	B			8	ŋ		63	SB		
11	>		Y			6	GR		64	В		
12	Ь	- [With Gateway]	Ć.	_	987654321	10	٨		9	γ	•	
12	œ	- [Without Gateway]			20 19 18 17 15 14 13 11 10	11	SHIELD		99	BR		
13	SHIELD	-				12	98		89	>		
14	SHIELD					13	٦		69	٦		
15	æ	- [With 2.0L turbo gasoline engine]				14	8		70	M		
15	SHIELD	- [With VR30 engine]	Terminal	I Color Of		15	>		71	97		
16	-		No.	Wire	Signal Name [Specification]	16	g.		72	а		
16	SHELD	- [With	٦	-		17	æ					
17	-	- [With VR30 engine]	2	SHIELD		18	æ					
17	SHELD	- fwit	m	SHELD		19	~					
18	-	- [With VR30 engine]	4	CHIFID		20	3					
2 2	, 0000	4+1740	- "	1 1 1 1		2 2	: 9					
9 6	-	Maria Collection Second Collection	, ,	9		17 6	3 3					
10	1 20	- [With 2:00 tubo gasonine engi	r			27 62	A -					
et s	SHIELD	- [with vksu engine]	1			52	٠,					
50	-	- [With	∞	۵.		24	ی	•				
20	SHIELD	- [With VR30 engine]	6	d.		25	BR					
21	٦		10	PI		56	В					
22	Ь		10	SHIELD	- [With 2.0L turbo gasoline engine]	27	BR					
23	Ь		11	PI		28	^					
24	Ь	- [With VR30 engine]	11	SHIELD	- [With 2.0L turbo gasoline engine]	29	В					
24	>	- [With 2.0L turbo gasoline engine]	13	BG		30	Μ	,				
			14	BG		31	۵					

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[INFINITI INTOUCH] < WIRING DIAGRAM >

Control Cont		NTOUCH (BOSE AUDIO WITHC	INFINITI INTOUCH (BOSE AUDIO WITHOUT NAVIGATION) (VR ENGINE)		
Common March Comm	Connector No.	D11	+		
State Stat	Connector Name	FRONT DOOR SQUAWKER LH	+		
State Stat	Connector Type	TK02FBR	Н	П	П
1 1 1 1 1 1 1 1 1 1	Q.		+	£	1
State Figure Fi	distr		+		
211 20 20 10 10 10 10 10	Ś	<u> </u>	L	t C	7 T
Specimen	2 1	Н	9 10 11 12 13	9 10 11 12 13	
Sepul from Exercicated Sepul from Exercica			+	14 15 16 17 18	14 15 16 17 18
Signal Name Specification			55 1		
1	Terminal Color C			Color Of	Color Of
1	\dashv		\dashv	Wire	Wire
Control Coto Of Coto	+	1	+	1 BR -	\dashv
10 10 10 10 10 10 10 10	┨		+	+	+
March Marc			+	+	+
Welf TO WRIET See Gir	Connector No.	D18	2 >	+	> 44
Signal Name Specification		П	\vdash		
Mindel Wurst 17 18 18 19 19 18 19 19 18 19 19	Connector Name		H	ď	R
1	Connector Type	NH60FW-TS12	Н	BR	BR
Convector Name Specification Convector Name Specification Convector Name Specification Convector Name Specification Convector Name Convecto	q.		+		_
Convector No. Convector No	要		+		
Connector Name Proper Part Connector Name Connect	H.S.			Γ	r
Connector Name Connector Name Factor Connector N		7777 7 8 8 8 7 8 2 2 2 2 2 2 2 2 2 2 2 2		Т	Ι,
Connector Name Specification Connector Name Connect			ı		
Clor of Signal Name Executation Warre Front Signal Name Executation No. Warre Signal Name Executation No. Warren Signal Name Sign				П	
Windows Signal Name Specification	Terminal Color C		Т		E
Fig. 10 Fig.	No. Wire		1		
Sign Sign Name Sign	1 GR		修		
Signal Name Specification No. Wire No.	+			2 1	[21]
Color Of Signal Name [specification] Color Of Color Of Signal Name [specification] Color Of	+				
Color Of Terminal Colo	╁				
Vive	Н			Color Of	Color Of
L Number Number	+			Wire	Wire
C C C C C C C C C C	J 6		Color Of		
Variable +		+	× 8	× 0	
SHED C C C C C C C C C C C C C C C C C C C	+		t	YG -	ď -
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< WIRING DIAGRAM > [INFINITI INTOUCH]

Connector Name FRONT DOOR WOOFER LH Connector Type NSQ2PW.LC 1	Connector Name FRONT DOOR WOOFER RH Connector Type NS92FW-LC H.S. Terminal Color Of Signal Name (Specification) 1 Wre 2 L	Connector No. Connector Name Connector Type Connector Type Connector	DOINT CONN NSOGFW-J	5 GR	- (Without BOSE system) - (With BOSE system) - (Wit
D50 TWEETER TK02FBR	No. 052 TWETER TWZFER TYPE	2 B6 3 BR 3 BR 4 GR 4 GR 5 GR 6 GR 6 GR Connector No.	- (With BOSE system) - (Withou BOSE system) - (With BOSE system)	e	Si OBRIVE MODE DRIVE MODE BRIVE MODE DRIVE MODE
Color Of Signal Name Specification No. Wire Wire No. W	Terminal Color Of Signal Name Specification No. Wire	Connector Type	NSOGEW-J NSOGEW-J	10 G G 11	CHAR GF

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< WIRING DIAGRAM > [INFINITI INTOUCH]

The control of the	Connec						Ī			}		_
Common table Comm		101 140.	E35	COLINECTOR INC.	E4/	Collinector	T	1152	CONTRECTOR	Т	7/7	
March 1942 Mar	Conne	tor Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	Connector Name	WIRE TO WIRE	Connector		ECM	Connector		JINT CONNECTOR-E01	
Column C	Conne	tor Type	SAZ30FB-SJZ4-U	Connector Type	TH32MW-NH	Connector T	П	RH24FB-RZ8-L-RH	Connector 1	П	5A28FLBR-J	_
Characteristics Characteri	偃			Œ		Œ			Œ			
The control of the	Ę	7 6	2 25 28 39 38 34 4 15 17 18 19 20 113 3 1 4 1 1 5 1 7 18 19 10 113 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HS.	2 3 4 5 6 7 8 9 10 18 19 20 21 22 23 24 25 28	HS.			HS.			
1 1 1 1 1 1 1 1 1 1	Termir No.				Signal Name [Specification]		Color Of Wire	Signal Name [Specification]		Solor Of Wire	Signal Name [Specification]	_
1	1	80	GND	H	- [Color of wire differs depending on production]	173	SB	FUEL TANK PRESSURE SENSOR	-	SR.		
1 1 1 1 1 1 1 1 1 1	2	В	GND	1	- [Color of wire differs depending on production]	175	Ь	CAN-L	2	>	4	_
1	3	9		+		176		CAN-H		> -	,	
15 CTOP LANGE LINEAR MOST OF TAXABLE LINE	m	: ا		+		177	σ:	SENSOR POWER SUPPLY [FUEL TANK PRESSURE SENSOR]	4	- ;		_
V COLO LANGE STORY STORY STORY V COLO LANGE STORY STOR	4 0	× 2	CTOB LAND SIM SIGNAL DAY: H ADAS	+	- [Without Gateway]	100	T	FIGURAN TEMBERATIBE SENSOR	s 4	¥ >		
Color Note	n u	2 >	STOP LAMP SW SIGNAL [With ADAS]	+	- [With Gateway]	100	Ť	FUEL PHAN CONTROL MACHINE SENSOR	7 0	- 141		_
10	0 1	> 0	DELLI WILLI SENSON SIGNAL [WILL SALD]	+		105	T	FOEL POINT CONTROL MODOLE (FPCM) CHECK		A -		,
RIN REPRODUCES SUBSINITY Control and southernooning promotional promotio	٥.	5	DD I H WHEEL SENSON SIGNAL	+	- [Color of wire differs depending on production]	196	g as	ASCD STEEDING SWITCH	•	ر ا		,
1	9	9 8	ED BUINDER SENSOR CICANI	, r	Color of wire differs depending on production	202	3 8	CONSTRUCTION OF THE PROPERTY O	۽	5 >		_
P	01	6	ED DE WHEEL SENSOR SIGNAL	. 0	- Icoro of wife uniers depending on production	100	3 >	GLIGI BLIMB CONTROL MODILIE (EDCA)	11	- 4		,
P Cock Union Common 10 V With Right Systymen 11 St With Right Systymen 11	1 2	5 0	VACILITY SENSOR FOWER SOFFET	0 0	[motate BOCE are by	100	- >	ENCINE CONTROL INODOLE (FFCM)	1 :	-		_
18 CONTINUENCE STREAM 10 St. CONTINUENCE STREAM 12 ST. CONTINUENCE STREAM 12	17	ء ء	CAN DATE OF STREET	+	PARTITION BOSE SYSTEM)	100	-	CALCINE COMMUNICATION LINE-L	75	4 3		,
V (a) (b)	5	ء د	CAN-L [without Gateway]	+	- [With BOSE system]	190	، ا	ENGINE COMMONICATION LINE-H	15	s 2		
1	1 2	× ;	CAN-L [With gateway]	+		191	.	STOP LAMP SWITCH	9 5	2 4		
10 10 10 10 10 10 10 10	7	-	- 1	+		761	2 8	BRAKE PEDAL POSITION SWITCH	3	<u>.</u>		_
13 15 16 17 18 16 18 17 18 17 18 18 18 18	2	2	ē.	+		193	¥	ENAP CRASSTEN VENT CONTROL VALVE (Calor of wire either depending on production)	18	1		_
55	18	>	8	+		193	91	ENAP CAMASTER VENT CONTROL VALVE (Color of wire eithers depending on production)	19	>		
S	19	SB	FR LH WHEEL SENSOR SIGNAL	+		194	>	SENSOR POWER SUPPLY	20	BG		_
CANHA SINGNE CROWN CANHA SINGNE CROWN CANHAN SINGNE CROWN CANHA SING	20	BG	FR LH WHEEL SENSOR POWER SUPPLY			195	BR	ACCELERATOR PEDAL POSITION SENSOR 2	21	Ь	-	
G NACLUMA SINOR GROWN STATES THE MATCH STATES THE M	25	7	CAN-H	Н		196	ж	SENSOR GROUND (ACCELERATOR PEDAL POSITION SENSOR 2)	22	7		
SHED VACCUM STOKEN STOKEN 198 1 STOKEN STOWER STOWEN 198	28	9	VACUUM SENSOR POWER SUPPLY	18		197	æ	ECM POWER SUPPLY	23	H	- [Color of wire differs depending on production]	
SHIED WACQUING SENGOR GROUND 220 W 1590 B 1500 GROUND 24 BE 1500 GROUND 24 BE 1500 GROUND 24 BE 2500 B 25	30	œ	VDC OFF SW SIGNAL			198	_	SENSOR POWER SUPPLY	23	t	- [Color of wire differs depending on production]	
G G G G G G G G G G G G G	32	SHIFID	L	╀		199	-	FCM GBOUND	24	t	- Color of wire differs depending on production	_
23 R	1 2			+		200	, >	CENSOR GROUND	72	t	Color of wire differs depending on production	_
BR 203 V ACCELERATOR PEDAL POSTION SENSOR 1 ECM GROUND	5	,		+		102		CAN CROUND	1, 10	3 6	from or wife affecting by ordered	_
R				+		707	a >	ACCELERATOR DEPART BOCETION CENTOR 1	5 5	. -		_
1 1 204 8 ECM GROUND 1 204 8 ECM GROUND 204				+		202	- (SCELENATOR FEDAL FOSTION SENSOR I	0.7	. ,		,
0				+		502	,	SENSON GROUND	3 8	+		,
2				+		707	n	ECM GROUND	87	-		_,
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INFI		INFINITI INTOUCH (BOSE AUDIO WITHC) N I	\VIGAT	WITHOUT NAVIGATION) (VR ENGINE)					
Connector No	ır No.	E219	Connector	tor No.	M1	Connector No.	M3	99	В	OUTS HD LAMP CONT
Connector Name	r Name	CHASSIS CONTROL MODULE	Connec	Connector Name	INTEGRAL SWITCH	Connector Name	INTEGRAL SWITCH	99	a :	BLOWER FAN RLY CONT [With VR30 engine]
			ě			F		99	+	BLOWER FAN RLY CONT (With 2.0L turbo gasoline engine)
Connector Type	ı Iype	TH28FW	Connec	Connector Type	TH24FW-NH	Connector Type	TH12FW-NH	29	M/B	IGN RLYAY (F/B) CONT
Q.	_		Q.			1		89	w ;	DIMMER
雪			事			李万		69	¥ °	A/I SHIFI SELECT PWR SPLY
/HS.			Ţ	,	1	ES.		2 12	٥	DR DOOR BED SW
		1 3 4 5 6 8 9 10 121314			4 4		31 32 33	72	SB	PASS DOOR RED SW
		07 076747675717 61 71 61			10 10		36 37 38 39 40 41	75	æ	COMBI SW INPUT 5
								76	BG	COMBI SW INPUT 4
								77	^	COMBI SW INPUT 3
Terminal	_	f Signal Name (Specification)	Terminal	0	Signal Name (Specification)	ler	Of Signal Name (Specification)	78	>	COMBI SW INPUT 2
No.	Wire	(company of classes and classes are classes are classes and classes are classes are classes and classes are class	No.	Wire	fine particular in the same of	_		79	91	COMBI SW INPUT 1
1	16	ACTUATOR (FL)-L	2	œ	ILLUMINATION SIGNAL	30 BR		80	_	TR LID OPNR SW
3	BR	ACTUATOR (RR)-H	3	PI	AV COMM (L)	31 W	GND			
4	BG	IGN	4	SB	AV COMM (H)	32 R	ENCD-B SIGNAL			
2	Μ	CHASSIS COMM-L	7	M/B	DISK EJECT SIGNAL	33 R	PUSH SWITCH A SIGNAL	Connector No.		M19
9	В	GROUND	*	9	HAZERD SIGNAL	34 W	PUSH SWITCH C SIGNAL	O months		TOTAL OF TOTAL
∞	BR	CHASSIS COMMA-H [Color of wire differs depending on production]	13	8	GND	36 V	ILLUMINATION CONTROL SIGNAL	Colliector		VINE IO WINE
00	٦	CHASSIS COMM-H [Color of wire differs depending on production]	14	SB	ACC [For 2.0L turbo gasoline engine]	37 W	ENCD-A SIGNAL	Connector Type		TH80MW-CS16-TM4
6	g	DRIVE MODE SELECT SW 050WW (Color of wire differs depending on production)	14	>	ACC [For VR30 engine]	38 6	SELECT SWITCH SIGNAL	١		
6	>	DRIVE MODE SELECT SW (DOWN) (Color of wire differs depending on production)	15	89	ILLUMINATION CONTROL SIGNAL	39 B	PUSH SWITCH B SIGNAL	E		
10	_	CAN-H	16	BG	DISK EJECT SIGNAL GROUND	40 B	SHIELD			
12	9	ACTUATOR (FR)-H	18	œ	IGN [For VR30 engine]	41 L	L/R_DETECTION SIGNAL	Ċ.		
13	9	ESS RELAY	18	W	IGN [For 2.0L turbo gasoline engine]					
14	٦	ACTUATOR (RL)-L	19	BR	CAMERA SWITCH SIGNAL					
15	٨	ACTUATOR (RR)-L	20	91	AIR BAG INDICATOR OFF SIGNAL	Connector No.	M14			
17	^	ACTUATOR (FL)-H				Connector Name	BCM (BODY CONTROL MOBILIE)			
19	_	CHASSIS COMIM-H				COLLECTO INGLIE		Terminal	Color Of	[mother grant of annual N mother control
21	Μ	CHASSIS COMIM-L	Connec	Connector No.	M2	Connector Type	TH40FB-NH	No.	Wire	Signal Name (Specification)
22	>	DRIVE MODE SELECT SWITCH (UP)	,					1	>	
23	۵		Connec	connector Name	INTEGRAL SWITCH	Œ		2	o	
24	۵	CAN-L [Without Gateway]	Connec	Connector Type	Tyco 1554987-6			e	SB	
24	œ	CAN-L [With Gateway]				Š		4	BR	
25	G	NSI	Œ	_			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5	>	
56	>	ACTUATOR (RL):H	4					9	~	
28	œ	ACTUATOR (FR)-L	1	.:				7	×	
					27 28			00	>	
					62	Terminal Color O	L	10	88	
							Signal Name [Specification]	11	BR	
						48 R	PUSH-BTN IGN SW ILL PWR	12	97	
			Terminal	al Color Of	4	52 6	DONGLE LINK	13	GR.	
			No.	Wire	Signal Name [Specification]	>4	COMM LINE	14	~	
			27	>	(+)	55 R	RAIN SENSOR	15	_	
			28	æ	FADS (-)	59 P	CAN-L	16	>	
			29	SHIELD		7 09	CAN-H	18	≥	
						61 G	REAR WINDOW DEF RLY CONT	19	BR	
						H	STARTER RLY CONT	50	>	
						H	I-KEY WARN BUZZER	22	SB	
									1	

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[INFINITI INTOUCH] < WIRING DIAGRAM >

. 51 V .	engine] 52 L - [With	- [With VR30 engine] 52 Y - [With VR30 engine]	M]		- 26 P	+	+	. 88 SB	، ب	62 P - [With	- [With 2.0L turbo gasoline engine] 62 V - [With VR30 engine]		- F	- [With VR30 engine] 68 L	angine]	- (With 2.0L turbo gasoline engine)	71 R	72 G	>	LG - [With	- With VB30 andired 74 - With VB30 andired 74 - Mith VB30 and Mit	74 LG - IWith	75 P	- [With VR30 engine] 76 SB - [With 2.0L turbo gasoline engine]	engine]	 	- [with Z.DL turbo gasoline engine] /8 L -	ngine) 80	- 80 W - [With VR30 engine]	8	81 R	. [With	SHIELD	- [With	W	BB.	84 SHIELD - [With	engine] 85 BR		[With 2.0L turbo gasoline engine]	- [With VR30 engine]		8/ [6	8/ LG 87 SHIELD - [With
																	Ш	Ш			VAHHA V	Mith 2 Of turk		- [With V	- [With 2.0L turk	- [With V	- [with 2.0L turk	- [With 2.0L turk		- [With VR30 engine a	- [With 2.0L turk	- [With VR30 engine				٥		- [With 2.0L turk		0		- Except with VR30 engine and with BOSE system	- [With VR30 engine	
S S P B B C C C C C S S C C C C C C C C C C C	++++++					+H	+	+		+	- BG	$^{+}$	SB	┞	H	~	91	Н	T	SHED.		+	5	91	Μ	+	> ~	╀	×	Ь	œ	+	υ.	+	+	풄	Ь	В	-	SHIELD	9	L	BR	ی
15		ST ST	16	17	18	19	20	21	22	57	24	5	25	56	26	27	29	30	30	31	32	3 8	34	35	35	36	37	37	38	39	39	39	40	4	45	43	44	45	45	46	47	48	48	49
				V - [With 2.0L turbo gasoline engine]	W - [With VR30 engine]	GR -	GR .	M :	+	T	Y - [Except with VR30 engine and with BOSE system]		M22	Т	ne Wike IO Wike	e TH80MW-CS16-TM4		100		211		3		or Of Signal Name (Consideration)	Wire Signal value [Specification]	FIG	C - [With 2 OI furbo gasoline engine]	L	R - [With VR30 engine]	SHIELD - [With VR30 engine]	Y - [With 2.0L turbo gasoline engine]	G - [With VR30 engine]	- [With	4	- [With	4	P - [With 2.0L turbo gasoline engine]	G - [With 2.0L turbo gasoline engine]	P - [With VR30 engine]	LG - [With 2.0L turbo gasoline engine]	SHIELD - [With VR30 engine]		GR .	· ·
84 L	_	20	+	۸ 68	+	+	+	+	+	+	86		Connector No.	:	onnector Name	Connector Type		_	Ž,					Terminal Color Of	┪		H.	3 B	3 B	4 SHIE	4	+	+	+	9	7	_		8)T 6	9 SHI	۸ ا	11 G	12
∞ ∞	200	ľ	0 00	∞	∞	6		6	6	1	6		Conr	Į,	5	Conr	4	ß	7					Tern	δ.	1	<u> </u>	1.,	,	7		"		_				~		0,	Ü	-	-	Ĺ
- [With 2.0L turbo gasoline engine] - [With VR30 engine]	30 engine)	[constant and an a	- [With VR30 engine]																						•				-						,	Ü				-		- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	
- [With 2.0L turbo ga	The same of the sa	- [With VR30 engine]	- [With \)-	- [With	
	+	Y - [With VR	-	9	œ	œ	BR	8	œ ;	^	۵.		P1 28	a.	9	BR	BR	BR	98	» ;	> >	. 4	2 ~	В	W	> 5	9g 9	9	BG	BR	>	œ	91 ::	M	8	M	1	W	BR	8	SB]- -	W - [With	α

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< WIRING DIAGRAM > [INFINITI INTOUCH]

INFINIT	INFINITI INTOUCH (BOSE AUDIO WITHC	NTOC	IAVIGA:	WITHOUT NAVIGATION) (VR ENGINE)							
06	lig.	Conne	Connector No.	M33	36	×		s	_	,	_
06	V - [With VR30 engine]	Jung	Constant Name	3diw Of 3diw	37	8		9	R		
95	L - [With 2.0L turbo gasoline engine]	3	ector Marile	WINE IO WINE	40	Ь		7	В		
	W - [With VR30 engine]	Conn	Connector Type	NH60MW-TS12	41	SB		8	W	-	
		¢			43	Μ	 [Except with VR30 engine and without ISS] 	6	GR		
93 SF	SHIELD - [With 2.0L turbo gasoline engine]	ß	_		43	>	- [With VR30 engine and without ISS]	10	>	-	
94		+	e		44	BG		11	Y	-	
92	L - [With 2.0L turbo gasoline engine]	1	ė.	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	46	BR		13	16		
92	Y - [With VR30 engine]				47	9		14	W		
96	R - [With 2.0L turbo gasoline engine]				49	۸		16	9		
96	W - [With VR30 engine]				20	8		17	В		
- 26	L - [With VR30 engine]				52	BR		18	W		
- 6	R - [With 2.0L turbo gasoline engine]	Terminal	inal Color Of	f Cinnal Mamo Consideration	23	В		19	8		
	BR .	No.	. Wire		55	BG		20	SB	- [With DRPO]	
H	BR - [With VR30 engine and with BOSE system]	2	*		99	97		20		- [Without DRPO]	
66	P - [With 2.0L turbo gasoline engine]	4	9		57	۸	4	21	SHIELD		
66	Y - [With VR30 engine and without BOSE system]	5	G		28	ď		22	8	,	
L	BR - [With VR30 engine]	9	œ		29	ŋ		23	BG	- [Without DRPO]	
100	W - [With 2.0L turbo gasoline engine]	_	~		09	_		23	d	- [With DRPO]	
		∞	GR		61	g		24	9		
		6	H		62	æ		25	91		
Connector No.	o. M25	10	┝		63	>		56	BG	- [Without DRPO]	
	Π	11	1 SHIELD		64	В		56	BR	- [With DRPO]	
Connector Name	ame DAIA LINK CONNECTOR	12	م 2		9	~		27	œ		
Connector Type	pe BD16FW	13	3 SB		99	BR		28	SB		
	1	14	╀		89	۵		29	BG	- [Without DRPO]	
Œ		15	╀		69	>	,	53	W/B	- [With DRPO]	
		16	٠ ٨		70	*		30	7		
Ź	11 12 13 14 16	17	4 L		7.1	97		49	۵	,	
	345678	18	8 W/B		72	>		25	>		
		19	┝	- [With DRPO]				22	8		
		19	×	- [Without DRPO]				99	SB		
		20	>		Connector No.		M34	27	g		
Terminal Co	Color Of	21	1 B			Г		28	ŋ		
No.	Wire Signal Name (Specification)	22	2 BG	- [Without DRPO]	Connector Name		WIRE TO WIRE	29	91		
3	LG M_CAN_L	22	2	- [With DRPO]	Connector Type		NH60MW-TS12	09	œ		
4	B EARTH	23	3 [ľ	_		63	8		
2	B EARTH	24	, t					64	В	-	
9	L CAN-H	25	9B 9C	- [Without DRPO]	· ·			99	BR		
7	V KLINE [With 2.0L turbo gasoline engine]	25	1 2	- [With DRPO]	Ş		2	99	٨		
7	W KLINE [With VR30 engine]	56	٠ ٠					69	BR		
00	W IGN_SW	27	7 GR					70	٨		
11	SB M_CAN_H	28	>					7.1	SB		
12	R CAN-L	29	9 E					72	W		
13	L CAN-H	30	w c		Terminal	Color Of	Simal Name (Specification)				
14	P CAN-L	31	\dashv		No.	Wire	ognal value [openication]				
16	W POWER	32	S SB		1	>					
		33	+		2	æ					
		34	_		4	9	- [With DRPO]				
		ñ	P		4	SB	- [Without DRPO]				

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< WIRING DIAGRAM > [INFINITI INTOUCH]

INFINITI	INI	NFINITI INTOUCH (BOSE AUDIO WITHC	/N TUC	T NAVIGAT	ITHOUT NAVIGATION) (VR ENGINE)	-	9	METER CONTROL SMITCH GROLIND	Connector No	M87	
	Т				CCINI	101	5 5	TRID/DEST SIGNAL		, com	
Connector Name		WIRE TO WIRE	Connec	Connector Name	MULTIFUNCTION SWITCH	21	9 4	STEERING SWITCH SIGNAL GROLIND	Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	
Connector Type	Τ	UN WICCUT	Journal	Connector Type	UN WOCINT	23		CTECONIC CIVITOR CICINAL A	Connector Type	TK08ECV 1V	
	7	11221.00.12011		1 1	11771.44	23	W/R	STEERING SWITCH SIGNAL A	201	Troop of the control	
Œ			Œ	_		27	2 -	WASHER EVEL SWITCH SIGNAL	Œ		
至丁			手			25	ي ر	BRAKE ELLID LEVEL SWITCH SIGNAL	主		
H.S.	L	╣	Y	·	Ė	35	3 >	DARKING BRAKE SWITCH SIGNAL	H.S.	10 10	
	-14	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1				27	> (PASSENGER SEAT BELT WARNING SIGNAL		25 24 31 32	
	2	2			7 8 9 10 11 12	28	> >	SEAT BELLEKI SOMITCH SIGNAL (DBLVEB SIDE)		33	
						200	\$ (SEAT BEET BOCKLE SWITCH STORAGE (DAILY EN SIDE)			
						8 8	9 5	MANITAL MODE SIGNAL [With 2:01 to 100 gasonine engine]			
	John Of		Tomorion	to solo		5	3	MONING MACHINE MACHE (MACH 1990) CONTROL	Torminal Color Of	L	
No.	Wire	Signal Name [Specification]	N.		Signal Name [Specification]	31	o _	NON-MANUAL MODE SIGNAL [With V.O. engine]		Signal Name [Specification]	
1	W/B		-	BR	111	32	98	MANUAL MODE SHIFT UP SIGNAL	t		
2	SB		2	*	GND	33	æ	MANUAL MODE SHIFT DOWN SIGNAL [With VR30 engine]	25 SB		
т	-		٣	œ	ENCD-B SIGNAL	33	۵	MANUAL MODE SHIFT DOWN SIGNAL [With 2.0]. Turbo gasoline engine]	31 W/B	,	
4	۵	- [Without Gateway]	4	~	PUSH SWITCH A SIGNAL	34	BG	PADDLE SHIFTER UP SWITCH SIGNAL	32 γ		
4	œ	- [With Gateway]	2	>	PUSH SWITCH C SIGNAL	35	9	PADDLE SHIFTER DOWN SWITCH SIGNAL	33 B		
ın	8		7	>	ILLUMINATION CONTROL SIGNAL	36	>	ILLUMINATION CONTROL SWITCH SIGNAL (+)			
9	SB		- 00	*	ENCD-A SIGNAL	37	- B	ILLUMINATION CONTROL SWITCH SIGNAL (-)			
7	-	,	6	ی	SELECT SWITCH SIGNAL	388	œ	VEHICLE SPEED SIGNAL (8-PULSE)	Connector No.	M92	
. α	*		10	-	PUSH SWITCH B SIGNAL						
6		- [Without BOSE system]	1	0	SHIELD				Connector Name	WIRE TO WIRE	
ō	>	- [With BOSE system]	12	-	L/R DETECTION SIGNAL	Connector No.		MS8	Connector Type	NS16MW-CS	
10	>						Γ				
11	SB					Connector Name		COMBINATION METER	Œ		
12	9		Connec	Connector No.	MS7	Connector Type	Γ	TH12FW-NH			
13	9				0.00				Ĉ.	1 2 3 - 4 5 6 7	
15	œ		Sauto	connector Name	COMBINATION METER	E				8 9 10 11 12 13 14 15 16	
16	SB		Connec	Connector Type	TH40FW-NH	· ·		<u> </u>			
Н	SHIELD		4			Ź		41 42 43 44 45 46			
18	Μ							2 4 4 0 1 1 2 2			
19	٨		ŧ					20 10 04 /4	Terminal Color Of	Signal Name [Specification]	
20	_		5	5	1 6 7 8 11 12 13 14 16 17 18				No. Wire	(incompanie) among an incompanie	
21	ŋ	•			21 22 23 24 25 28 27 28 30 31 32 33 34 35 36 37 38				1	-	
22	œ	•				Terminal	Color Of	Signal Namo [SportBoation]	2 BR		
23	BR					No.	Wire	orginal Marine [openingation]	3 ^		
24	æ					41	7	CAN-H	4 R		
25	7		Terminal	al Color Of	Cincol Name Consideration	42	Ь	CAN-L	5 GR		
56	٨		No.	Wire	olgilal Nallie [operilication]	43	В	ILLUMINATION CONTROL SIGNAL	۸ 9		
27	97		-	8	GROUND	44	٨	FUEL LEVEL SENSOR GROUND	7 L		
28	BR		9	GR	STOP/START OFF SWITCH INDICATOR SIGNAL	45	Μ	BATTERY POWER SUPPLY	d 6		
59	W/B		7	9	SECURITY SIGNAL	46	98	IGNITION SIGNAL [Except with VR30 engine and without ISS]	10 GR		
30	>	1	∞	m		46	œ	IGNITION SIGNAL [With VR30 engine and without ISS]	11 SB		
31	W		11	٨	ALTERNATOR SIGNAL	47	SB	AV COMMUNICATION SIGNAL (H)	12 W		
32	_	- [With Anti-theft diode]	12	o	LED HEADLAMP (RH) WARNING SIGNAL	48	91	AV COMMUNICATION SIGNAL (L)	13 G		
32	91	- [Without Anti-theft diode]	13	BR	LED HEADLAMP (LH) WARNING SIGNAL	51	BR	FUEL LEVEL SENSOR SIGNAL	14 BR		
			14	>	ACC POWER SUPPLY	52	В	GROUND	15 P		
			16	>	AIR BAG SIGNAL				16 LG		
				-					$\frac{1}{1}$		

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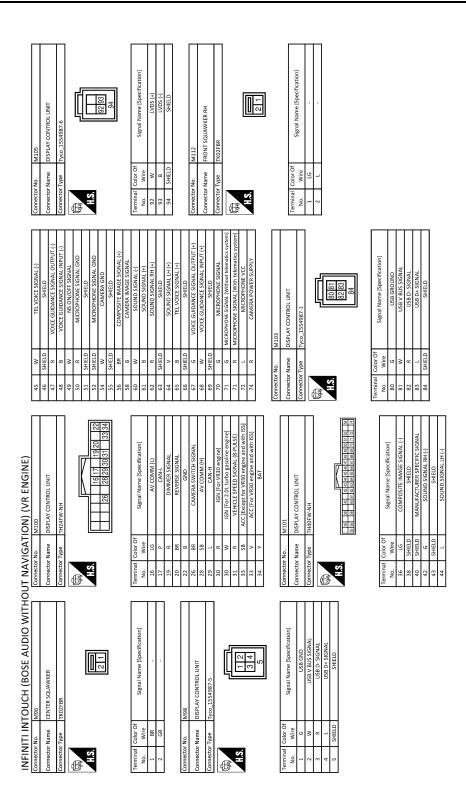
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[INFINITI INTOUCH] < WIRING DIAGRAM >

Connector No. M115 Connector Name FRON		INTERNATIONAL (BOSE ACETO WITHOUT INAVIGATION) (VICTINGINE)	,					-	
		Connector No.	M133	29	9	,	Connector No.		42
	FRONT SQUAWKER LH	Connector Name	FUSE BLOCK (J/B)	2 2	0 0		Connector Name		EXTERNAL DATA INPUT BOX
Connector Type TK02FBR	FBR	Connector Type	TH40FW-NH	96	>		Connector Type	П	GT17VS-10DS-HU
1		1					Œ		Ę
0-		O E		Connector No.	o. M135				2-1
H-O		2	20 100 100 100 100 100 100 100 100 100 1	Connector Name	ame JOINT CONNECTOR-M09	R-M09	5		9 1
			32) We (32) (32) (33) (33) (33) (33) (33) (33)	Connector Type	74342 4GA2A				9 10
									11
				Œ					
lei	Signal Name [Specification]	lal	Signal Name (Specification)) <u>-</u>	9	4 3	Terminal	Color Of	Signal Name [Specification]
No. Wire		^		į	-	ñ	No.	Wire	
1		10C V			181	7 16 15 14 13	1	_	USB D+ SIGNAL
2 V		12C L			24 2	3 22 21 20 19	2	W	USB V BUS SIGNAL
		13C L					3	В	USB D- SIGNAL
		14C Y	•				4	9	USB GND
Connector No. M132	2	15C R		Ja.	<u>+</u>	Cirral Namo [Crosification]	7	9	USB GND
Connector Name	ELISE BLOCK (1/B)	16C R	-	No.	Wire	aut [abreumented]	8	Я	USB D- SIGNAL
	(a (a) a)	17C L		1	8		6	W	USB V BUS SIGNAL
Connector Type NS16	NS16FW-CS	_	- [Without DRPO]	2	В	-	10	Ţ	USB D+ SIGNAL
q		18C P	- [With DRPO]	Э	В		11	SHIELD	SHIELD
医		+		4	В	1			
الاد		4		2	8				
His	1	20C W		9	8		Connector No.	No. M143	43
	168 138 148 138 118 98	21C L	-	6	91		Connector Name		EXTERNAL DATA INPUT BOX
-		22C L		10	91		,	Т	
		+		11			Connector Type	٦	TH12FW-NH
		4		13	+	- [With VR30 engine]	Q		
<u></u>	Signal Name [Specification]	26C SB		13		- [With 2.0L turbo gasoline engine]	等		
No. Wire		\dashv		14	4	- [With VR30 engine]) I		/ \ \
		_		14	4	 [With 2.0L turbo gasoline engine] 	5		12 13 14 16 17
4		+		15	1	- [With VR30 engine]			20 21 22
7 TAR		+		q ;	1	- [With 2.0L turbo gasoline engine]			
16B V		30C K		16	> - [with 2:01	- [with 2.0L turbo gasoline engine]			
+		+		2 2	+	DMith 2 Of turbo carolino carrinol	Torminal	Color Of	
48 W		+	- IWith WR30 engine	17	+	- Mith VR30 engine	N	Wire	Signal Name [Specification]
╀		33C B	- [With 2 Of turbo assoline angine]	3 2	SB . DWith 2 OI	turbo ascolina anginal	12	, w	HI INDISIGNITA
+		3	56.5	000	-	- [With VR30 anging]	13	: 0	Ally Allon-
1		╀		t	CHIEID	Tall Barrier	17	: 0	ALIX SOLIND SIGNAL BH
		+		t	2		15	0	GND
		1		02 50			10	,	GNB
		+		†	×		γ,	-	BAI
		+		†	SHIELD		70	-	AUX IMAGE SIGNAL (+)
				23	_		21	┪	AUX IMAGE SIGNAL (-)
		4		24	٦		22	SB A	ACC [Except with VR30 engine and with ISS]
		40C G					22	>	ACC [With VR30 engine and with ISS]
		4C P							
		40C G					22	>	∢

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INFIN	N	INFINITI INTOUCH (BOSE AUDIO WITHO	NT NA	VIGATI	WITHOUT NAVIGATION) (VR ENGINE)							
Connector No.	Н	M159	Connector No.	Ш	M160	14	Ь	SOUND SIGNAL REAR RH (-)	69	SHIELD	SHIELD	_
Connector Name		WIRE TO WIRE	Connector Name		WIRE TO WIRE	19	> @	BAT	72	œ @	AUX SOUND SIGNAL GND AUX SOUND SIGNAL RH	_
Connector Type	П	TH40FW-NH	Connector Type	П	NS08FW-CS							1
E			Œ			Connector No.		M164	Connector No.		M166	_
H.S.			HS.		3 - 2 1	Connector Name		AV CONTROL UNIT	Connect	Connector Name	AV CONTROL UNIT	
	_	20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1 0 3 38 38 38 38 38 38 38 38 38 38 38 38 3			8 7 6 5 4	Connector Type	П	TH40FW-NH	Connector Type	П	TH16FW-NH	
						Œ			Œ			
Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	N S	_	\$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	H.S.		75 76 77 78 79	
1	9		1 0	> -			-				81 82 83 84 85 86 87 88	
3 6	- E		4 65	2 %								
4	œ		4	œ		Terminal	\sim	Signal Name (Specification)	Terminal	_	Signal Name (Specification)	
2	GR		9	8		S	Wire	Transport of the state of the s	No.	Wire	Topographic and the second sec	-
ی و	× ¾	- [With VR30 engine and with ISS]	\ α	¥ >		77	၅ -	ALIX IMAGE SIGNAL (+)	7/	S P	I EL VOICE SIGNAL (+)	,
^	-	- Leverpt with 1930 engine and with 1931	,			8 8	, BB	COMPOSITE IMAGE SIGNAL (+)	72	9	VOICE GUIDANCE SIGNAL (+)	_
6	SHIELD					39	91	COMPOSITE IMAGE SIGNAL (-)	9/	8	SHIELD	
10	W	,	Connector No.	Ш	M163	40	SHIELD	SHIELD	77	9	SOUND SIGNAL FRONT LH (+)	,
11	æ		Connecto	Connector Name	TINIT IORLUCY AV	42	SB	AV COMM (H)	78	_	SOUND SIGNAL FRONT LH (-)	
12	1					26	>	AUX IMAGE SIGNAL (-)	79	PI I'C	SOUND SIGNAL REAR LH (+)	
13	9		Connector Type	П	NH18FW-CS2	57	SHIELD	SHIELD	80	۵	SOUND SIGNAL REAR LH (-)	_
14	>		ą	_					81	*	TEL VOICE SIGNAL (+)	
15	8		图						82	SHIELD	SHIELD	_
17	8) 		[Connector No.		M165	83	æ	VOICE GUIDANCE SIGNAL (-)	_
19	œ		2	_	12345 789	Connector Name		AV CONTROL UNIT	84	В	SHIELD	,
20	S 8	[Except with VR30 engine and with BOSE system] [Mith VR30 engine and with BOSE system]			19 10 11 12 13 14 20	Connector Type	- 1	TH12EW-NH	88 88	œ -	SOUND SIGNAL FRONT RH (+)	_
21	00						1		87	8	SOUND SIGNAL REAR RH (+)	_
22	9					B			88	W	SOUND SIGNAL REAR RH (-)	_
24	В		Terminal	Color Of	Simal Name (Specification)	¥.		<u> </u>				1
25	*		No.	Wire		2	_	61 62 63 65 66				
37	× 0			SHIELD	SHIELD SOUND SIGNAL EBONT LH (4)			67 68 69 71 72				
78			4 6	. ~	SOUND SIGNAL FRONT LH (+)							
53	9		4	91	SOUND SIGNAL REAR LH (+)							
30	[_		2	SB	SOUND SIGNAL REAR LH (-)	Terminal	Color Of	Common Masson (Committee or				
31	Μ		7	SB	ACC [Except for VR30 engine and with ISS]	No.	Wire	oighal Name [openiication]				
32	×		7	>	ACC [For VR30 engine and with ISS]	61	>	SOUND SIGNAL LH (+)				
33	_		00	M/B	DISK EJECT SIGNAL	62	œ	SOUND SIGNAL RH (+)				
36	>		5	8	DISK EJECT SIGNAL GND	63	SHELD	SHELD				
38	91		10	SHIELD	SHIELD	92	SHIELD	SHELD				
40	≥		= =	، و	SOUND SIGNAL FRONT RH (+)	99	≥ .	AUX SOUND SIGNAL LH				
			13	۵	SOUND SIGNAL FRONT RH (+)	/9	_ 6	SOUND SIGNAL LH (-)				
				1								

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< WIRING DIAGRAM > [INFINITI INTOUCH]

21 [6	+	24 16 -	┨		Connector No. M175	TORK OCTOBRISHOOD THE CO.		Connector Type NH20FL-DC				8 7 6 5 4 3 2 1	20 19 17 16 15 14 13 12 11 10				la l	No. Wire	1 1	2 L -	3	4		٠		+	11 0	╀	13 Р	14 P	15 P	16 P - (With VR30 engine)	16 R - [With 2.0L turbo gasoline engine]	17 P - [With VR30 engine]	17 R - [With 2.0L turbo gasoline engine]	В	 W - [Except with VR30 engine and with ISS] 	20 R - [With VR30 engine and with ISS]	W .								
- [With 2.0L turbo gasoline engine] - [With VR30 engine]	Date of the continue	- [With 2.0L turbo gasoline engine] - [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine and without ISS]	- [With VR30 engine and with ISS]		- [With VR30 engine and without ISS]	- [With VR30 engine and with ISS]		[5	- [With VR30 engine and with ISS]			M174	JOINT CONNECTOR-M04		24342_4GA2A			5 1 2	D	24 22 22 24 13				Signal Name [Specification]																				•
9 8	<u> </u>	2 %	9	ď	SB	>	В	SB	>	æ	SB	۸				Connector Name	П	٦								Color Of		-	_	_	_	_	7	٨	γ	γ	٨	>	>	SB	SB	SB	SB	SB	SB	97	97
19	3 8	27	21	22	22	22	23	23	23	24	54	24			Connector No.	Connecto		Connector Type	q	生力						Tormina	No	-	2	m	4	2	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20
- [With VR30 engine]	fwith 2.00 tubo gasonie enginej	- [With VK50 engine] - [With 2.0L turbo gasoline engine]			- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]			M173	DINT CONNECTOR-MO3		24342_4GA2A		E	5 4 3	6 . 6 .	24 25 25 24 25 16				Signal Name [Specification]						,										- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]
× ×	- {	ž >	9	9	97	88	PI	88	91	SB					T	٦								. 0	Color Of	-	1-	-	_	-	7	æ	œ	ж	н	ж	ж	SB	SB	SB	-	SB	1	88	_	SB	BR
17	3	8 8	19	50	22	22	23	23	24	24			Connector No.	Connector Name		Connector Type	q	事	Š					[lerminal	į,	٠,	, m	4	2	9	7	×	6	10	11	12	13	14	15	16	16	17	17	18	18	19
22	AV CONTROL UNIT	Tyco 1554987-1				06 68	91 92	66			Cional Nama Consideration	ogna ivalie (openication)	USB GND	USB V BUS SIGNAL	USB D- SIGNAL	USB D+ SIGNAL	SHIELD			71	JOINT CONNECTOR-M01		24342_4GA2A		6543214	σ 0 0 1	16 5	00 00 00	77 77 77		(- 3 - 3 W 3	olghar ivanie (opecification)					•									- [With VR30 engine]	- [With 2.0L turbo gasoline engine]
	Connector Name AV C	Connector Type Tycc	ı								Color Of	Wire	9	>	œ	_	SHIELD		1	Connector No. M171	Connector Name JOIN	1	Connector Type 243								Color Of	Wire	8	В	В	В	В	8	8	æ	8	9	9	<u>_</u>	В	SB	٨
Connector No.	ā																																														

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INFINITIIN	NFINITI INTOUCH (BOSE AUDIO WITH	DUT NAVI	WITHOUT NAVIGATION) (VR ENGINE)			
Connector No.	M177	Connector No.	o. M301	Connector No.	M376	Connector No. M389
Connector Name	JOINT CONNECTOR-M07	Connector Name	ame COMBINATION SWITCH (SPIRAL CABLE)	Connector Name	WIRE TO WIRE	Connector Name WINDOW ANTENNA (FM SUB)
Connector Type 24342_4GA2A	24342_4GA2A	Connector Type	ype TK08FGY	Connector Type	GT13SCN-2-1PP-HU	Connector Type P01FB-A
H.S.	6 5 4 3 2 1 12 11 10 9 8 7 7 18 21 12 14 13 9 24 23 22 21 20 19	H.S.	2019181716151413	H.S.		H.S.
Terminal Color Of No. Wire	Signal Name [Specification]	Terminal Ci	Color Of Signal Name [Specification] Wire	Terminal Color Of No. Wire	Signal Name [Specification]	Terminal Color Of Signal Name [Specification]
2 [14		2 .	•	,
3		15		3		Passacetoca No.
5 4 L		17				_
9		18		Connector No.	M386	
\perp		19		Connector Name	ANTENNA AMP.	Connector Type P01FB-A
x 0		707		Connector Type	GT13SSN-1-1PP-HU	
10 P				4		
11 P		Connector No.	o. M375	彦	0	
12 P		Connector Name	ame WIRE TO WIRE	<u> </u>	•	3
13 L		Connector Type	gri3SC-2-45-HII		<u> </u>	
15 L					2	
16 L		E				Te
17 L		ě	Ē			No. Wire
+		121	10	Terminal Color Of	Signal Name [Specification]	1 .
70 M][+	IANOS NO GRAN ANNOTAN	
+			3	, ,	AM-FM MAIN	Connector No. M394
╁						
23 P		Terminal	Color Of Color Of			Connector Name AV CONTRUL UNII
24 P		O	Wire Signal Name [Specification]			Connector Type GT135H-2-15-HU
		1				
		2 5				(III)
		9				H.S.
						<u> </u>
						198

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< WIRING DIAGRAM > [INFINITI INTOUCH]

		А
NWRE -NH -1 2 3 4 5 6 7 8 1 0 10 11 12 13 14 15 16 Signal Name [Specification]		В
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Connector No. Connector Name Connector Name Connector Name Connector Type Connector No. Connector No. Connector No. Connector Name Connecto		D
(cation)		Е
WHE TO WIFE GTIEC-1PP-HU Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]		F
		G
Connector Nam Co		Н
Wife P-HU Signal Name [Specification]		I
MA17 Signal Na		J
Terminal Color Of Terminal Color Of Terminal Color Of No. Wire Connector Name Con		K
(cation) Ication) Ication) Ication)		L
Signal Name [Specification] Signal Name [Specification] AMTENNA AMP. ON SIGNAL ANTENNA AMP. ON SIGNAL ANTENNA AMP. ON SIGNAL Signal Name [Specification]	_	M
NOT 1 1 1 1 1 1 1 1 1		AV
NEINITT Terminal Color 150 150 152	JRNWF6622GB	0
		Р

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	Connector type TRO2FBR	Terminal Golor Of Signal Name (Specification) No. Wire	Connector No. R20 Connector Name test atritionore latrice reast constitution Connector Type Tri02F9R	Terminal Golor Of Signal Name [Specification] No. Wire Wire	
ION) (VR ENGINE)	· [Without BOSE system]	Color of wire diffres depending on production) (Color of wire diffres depending on production)		NSGBANW.CS	Signal Name [Specification]
VIGATI	> 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	. 28 ° 8 8 8 8	S B B L S C L S		Color Of
OUT NA	14 15 17 19 20 20 20 21 21 21	25 26 27 28 29	31 31 31 31 31 31 31 31 31 31 31 31 31 3	Connector Name Connector Type	Termina No. 1 1 2 2 2 3 3 4 4 4 4 6 6 6 6 7 7 7 7 8 8
INFINITI INTOUCH (BOSE AUDIO WITHOUT NAVIGATION) (VR ENGINE) Lonnector No. R14 12 L 13 G 13 G	ПИЗБРИЗАНН 8 7 6 5 4 3 2 1 16 13 14 13 12 11 10 9	Signal Name (Specification)		WHE TO WHE THAOMWAN H THE STATE OF THE STAT	Signal Name [Specification]
INFINITI IN Connector No.	1	Mire G G G G SB	W W W W W LG G G G G G G G G G G G G G G	Connector Name Connector Type H.S.	Wire Wire G G LG LG BR V V V BG GR BR SHELD
Connector No.	Connector Type	Terminal No. 1 2 2 4 4	7 7 8 8 8 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Connector Name Connector Type H.S.	Terminal No. 1 2 2 2 3 3 3 5 6 6 6 6 9 9 9 9 9

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< WIRING DIAGRAM > [INFINITI INTOUCH]

INFINITI INTOUCH (BOSE AUDIO WITH NAVIGATION)

Wiring Diagram

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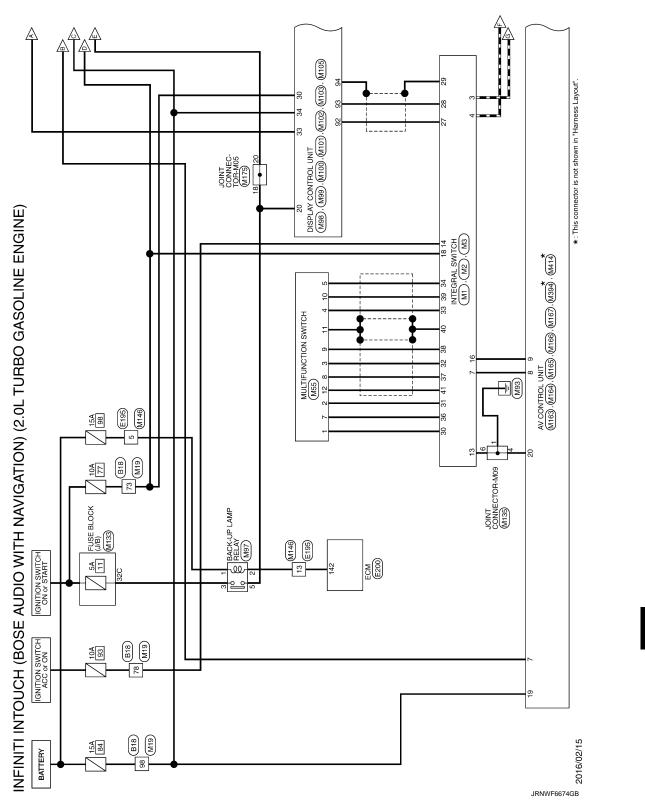
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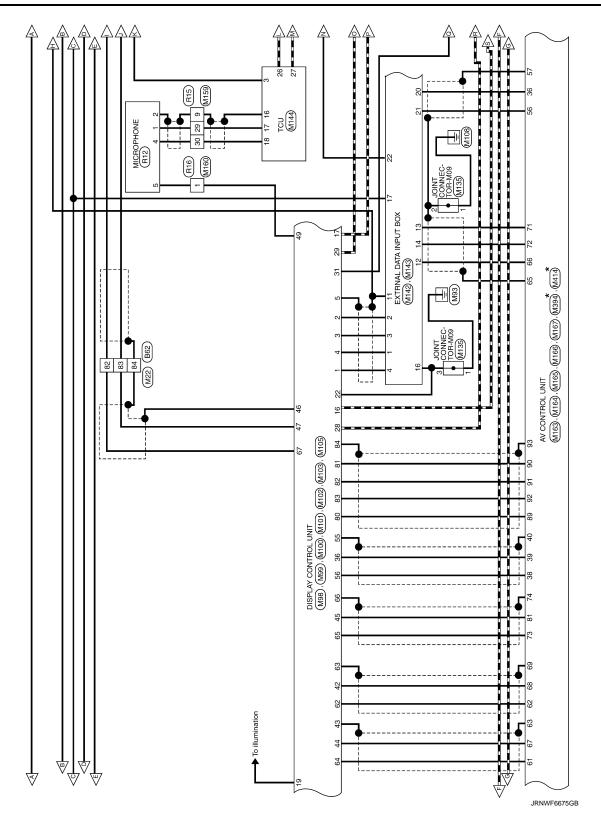
ΑV

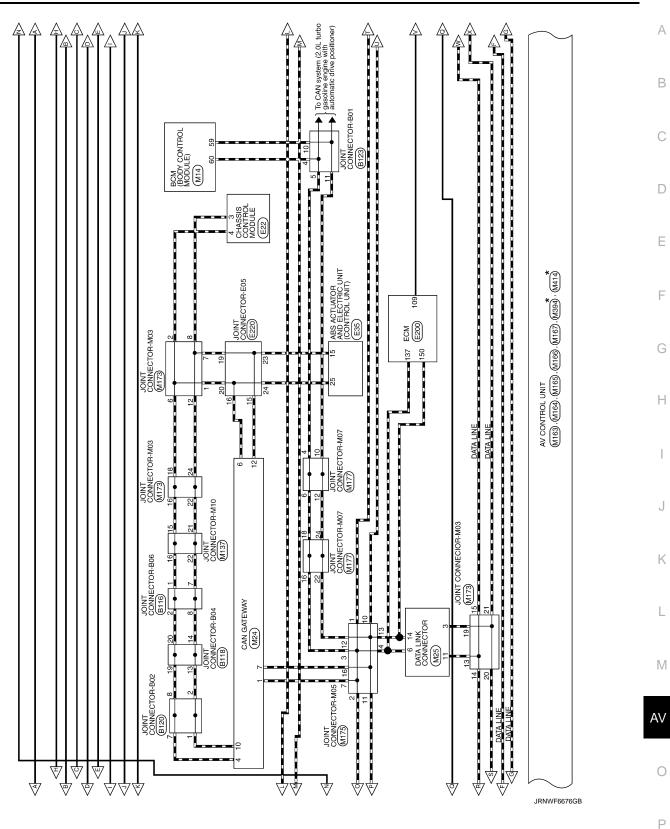
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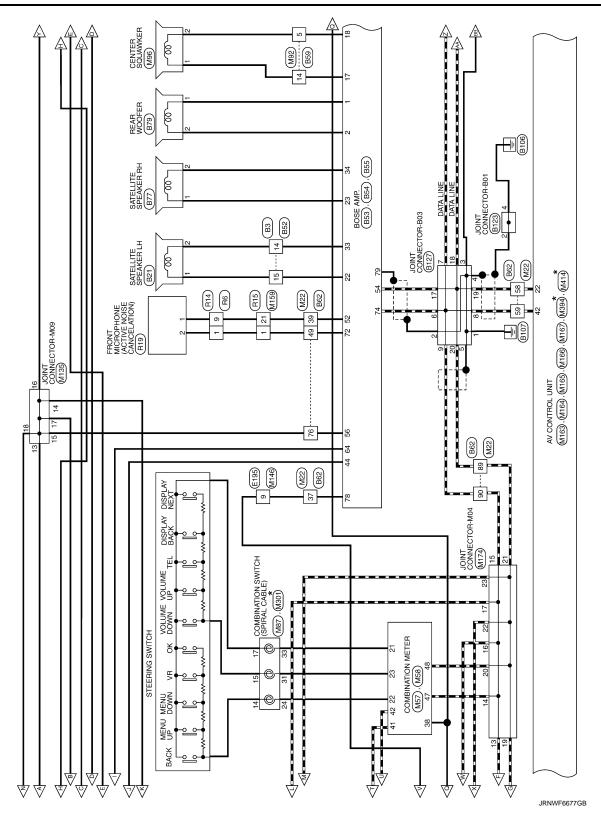
Ρ

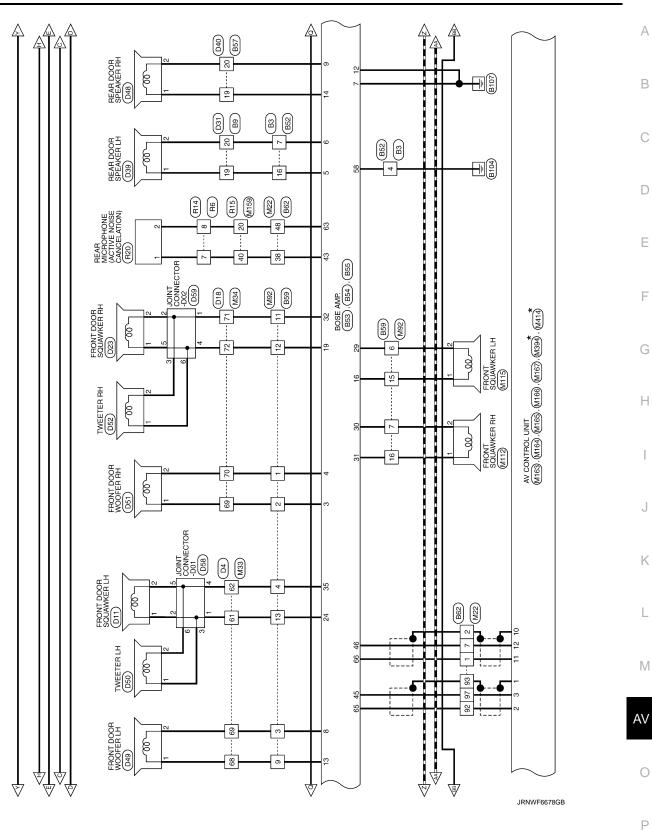
2.0L TURBO GASOLINE ENGINE

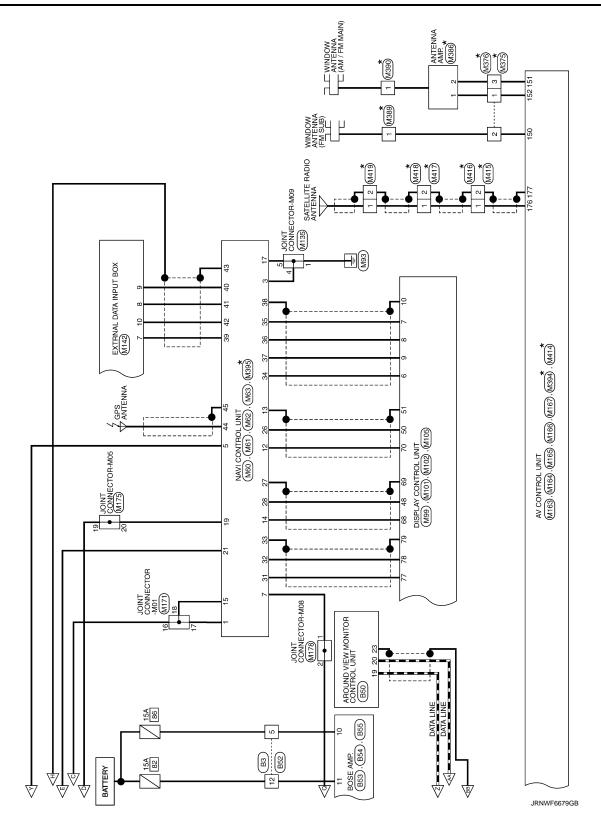












< WIRING DIAGRAM > [INFINITI INTOUCH]

Connector Name Wire TO Wire No. 1670 Name Connector Name No. 1670 Name Connector Name Connecto		8				
Connector No. State Conn	++++++	20	-	č	40	
Connector Name Wilt TO WIRE Signal Name Specification Signal Name Signal Name Specification Signal Name Signal			•	.T.	5	
Connector No. 318 36 37 38 38 38 38 38 38 38		9		94	GR	
Connector No. Signal Name Specification Signal Name		Р	-	96	Υ.	-
Connector Name Signal Name Specification Signal Name	++++	W		97	>	
Total Signal Name Specification Terminal Color of the Name Specification Signal	+++	88		86	BR	 [With VR30 engine and with BOSE system]
7 6 5 4		ų.		86	\	- Except with VR30 engine and with BOSE system
Territorial Name Specification Territorial Territo	₩					
Signal Name Specification	╀					
Signal Name Specification	_	2 9		Connector No	Γ	700
Signal Name [Specification] Sign	ŀ	JK.	,	COILLECTO	I	179
Signal Name [Specification] Automate Specification Automate A	+	3G		Connector Name		SATELLITE SPEAKER I H
Signal Name [Specification] Sign		92				
Figure Signal Name Specification Signal Name Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Signal Name Specification Signal Name Signal Na	46	~		Connector Type		TKO2FBR
Terminal Color Of Wire Signal Name (Specification) 5.4 1.0	╀				1	
Ferminal Color Of Name Toward Name Especification 15 15 15 15 15 15 15 1	+	A 5		1		
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Terminal Color Of Vine Signal Name (Specification) S4		9		2		
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10 10 10 10 10 10 10 10	2					
1	2 2	: **				
2)¢	8				
Signal Name Specification Signal Name Signal N	28	^				
1		3R		Terminal	Color Of	(
Signal Name Specification Signal Name Signal Nam	ŀ			No	Wire	Signal Name [Specification]
Signal Name Specification	1.9			-	>	
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NH SET ON WIRE TO WIRE SIGN SIG	99	R		Connector No.		850
Wire To Wire Wire To Wire To Wire Wire To Wire To Wire Wire To Wire Wire To Wire To Wire Wire To Wire To Wire To Wire Wire To Wi	70	R	-	Connector Name		ABOILIND MEW MONITOR CONTROL LINIT
WINE TO WINE WINE TO WINE 13 GR	7.1	W				
MH10FW-CS10	7.5	8		Connector Type		TH40FW-NH
NHIDFW-CS10 15 1	L	M		ı		
15 15 15 15 15 15 15 15	74	1		E		
S	75		- [Without paddle shift]	·		
S S A 3 2 1 19 88 76 77 77 78 78 77 77 7	75		- [With paddle shift]	H.S.	L	7
0 0 4 1 0 2 1 20 W 77 77 77 77 77 77 77	╀					2 2 4 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
20 19 13 12 11 10 9 8 7 22 8 7 23 V 78 79 79 79 79 79 79 79	+	*				13 20 20 20 20
20 19 15 12 11 10 19 12 12 12 13 13 13 14 15 15	+	a				
123 V 174 15 14 15 14 15 15 15 1	+					
24 R With 2.01 turbo gasoline engine 79 79 74 74 74 74 74 74	79		- [With VR30 engine]			
24 Y - - - - - -			- [With 2.0L turbo gasoline engine]	Terminal	Color Of	Cional Massa (Cocoldination)
Signal Name [Specification] 25 P IWith 20L turbo gazoline engine and without gatewayl 82 75 V IWith 20 Intrins exonine point out gatewayl 83	81			No.	Wire	olgiidi ivaliie [opeciiicatioii]
Signal Name [Specification] 25 V . IWth 2 OII nurho exceller penine and with parteuravi R3	83	2		-	ď	GND
	ł	: 9		۲	,	TVG
A CONTRACTOR OF THE CONTRACTOR	+	2 .		4 6	- !	ING.
LG	#8			m	9]	NSI
	82		 [Without paddle shift] 	4	۵	ACC
	82		- [With paddle shift]	19	۵	AV COMM (H)
	98	B		20	91	AV COMM (L)
7 B With VR30 engine 88 G	88	ŋ		23	SHIELD	AV COMM GND
Mith DOE surbow 31 DD Mith 301 turbo moraling 00	S	ļ	Mith 2 Of trutho gardino paginol	ž	20	PENEDSE SICHAL
or - [with book system] 31 or - [with 2.0L turbo gasonine engine] 69	60	4	rbo gasoline enginej	67	20	REVERSE SIGNAL

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< WIRING DIAGRAM > [INFINITI INTOUCH]

Connector No. B57 Connector Name Wife TO Wife Connector Type NH10FW-CS10 6 5 4 3 2 1 20 19 13 12 11 10 9 8 7	lal Col	Connector No. 659 Connector Name WIRE TO WIRE Connector Type NS16FW-CS		No. Wire 2 1 Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	6 V
24 5 SOUND SIGNAL FRONT LH (+) 24 6 SOUND SIGNAL FRONT LH (+) 29 V SOUND SIGNAL FRONT SQUAWEER H+ (+) 30 L SOUND SIGNAL FRONT SQUAWEER H+ (+) 32 B SOUND SIGNAL FRONT SQUAWEER H+ (+) 34 B SOUND SIGNAL FRONT SQUAWEER H+ (+) 34 P SOUND SIGNAL ARMELITE SPEAKER H+ (+) 34 P SOUND SIGNAL SATELLITE SPEAKER H+ (+) 35 R SOUND SIGNAL SATELLITE SPEAKER H+ (+) 35 R SOUND SIGNAL SATELLITE SPEAKER H+ (+) 35 R SOUND SIGNAL FRONT H+ (+)	Connector No. 855 Connector Name 8055 AMP. Connector Type 11405№-N-NH	la Col	K V V V V V V V V V V V V V V V V V V V	66 W FRONT MICROPHORE SIGNAL 72 G FRONT MICROPHORE SIGNAL 74 P AVI COMMI (H) 78 W ENGINE SPEED SIGNAL 79 SHIELD SHIELD	
MITH NAVIGATION (2.0L TURBO GASOLINE ENGINE	Terminal Color Of Signal Name Specification	7 8 SOUND SIGNAL RONT DOOR WOOFER LH (-)	Connector No. 854 Connector Name 805E AMP. Connector Type SCA19FBR-SGA4	H.S. 88 94 38 183 11 00 28 28 184 16 17 16 184 16	Terminal Color Of Signal Name Specification No. Wire 16
NTOUCH (BOSE AUDIO V CAN-H CAN-L [Withour ADAS] [For VE30 en CAN-L [Withour ADAS] [For Union CAN-L [With ADAS] CAN-L [Withour ADAS] [For On Union EFFRACT MOTOR OPERATING SIGNAL, BETRACT MOTOR OPERATING SIGNAL, BETRACT MOTOR OPERATING SIGNAL,	Connector Name NSI 6 NWRE Connector Type NSI 6 NW - CS 1 2 3 1 4 5 6 7 8 9 10 11 12 13 14 15 16	N N N N N N N N N N N N N N N N N N N	11 8		

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< WIRING DIAGRAM > [INFINITI INTOUCH]

INFINIT	INTOUCH	4 (BOSE AUDIO WITH	NAVIC	ATION	NFINITI INTOUCH (BOSE AUDIO WITH NAVIGATION) (2.0L TURBO GASOLINE ENGINE)	NGINE)					
15	Ь		18	-		99	>		94	В	
16	Ь		19	œ		22	ď		95	٦	- [With 2.0L turbo gasoline engine]
			70	8		28	91		95	>	- [With VR30 engine]
			21	œ		59	Ь	•	96	œ	- [With 2.0L turbo gasoline engine]
Connector No.	, B62		22	>		61	_		96	8	- [With VR30 engine]
Constant	WIRE TO WIRE	3017	23	>		62	Ь	- [With VR30 engine]	46	_	- [With VR30 engine]
COLLIECTO		VINE	24	BG	- [With 2.0L turbo gasoline engine]	62	۸	- [With 2.0L turbo gasoline engine]	6	В	- [With 2.0L turbo gasoline engine and with BOSE system]
Connector Type	pe TH80FW-CS16-TM4	S16-TM4	24	>	- [With VR30 engine]	63	7		46	W	- [With 2.0L turbo gasoline engine and without BOSE system]
-			25	1	- [With 2.0L turbo gasoline engine]	64	Μ		86	91	
E			25	SB	- [With VR30 engine]	99	9]		66	BR	- [With VR30 engine and with BOSE system]
ŧ	•		26	9	- [With VR30 engine]	89	٦		66	Ь	- [With 2.0L turbo gasoline engine]
6.5		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	56	3	- [With 2.0L turbo gasoline engine]	69	۵		66	>	- [With VR30 engine and without BOSE system]
			27	œ		71	g	- [With 2.0L turbo gasoline engine]	100	BR	- [With VR30 engine]
		0 22	29	97		7.1	æ	- [With VR30 engine]	100	N	- [With 2.0L turbo gasoline engine]
	7		30	97	- [With 2.0L turbo gasoline engine]	72	ø	- [With VR30 engine]			
			30	۵	- [With VR30 engine]	72	>	- [With 2.0L turbo gasoline engine]			
Terminal Co	Color Of		31	SHIELD		73	~	- [With 2.0L turbo gasoline engine]	Connector No.	Г	877
No.	Wire	Signal Name [Specification]	32	t		73	SHELD	- [With VR30 engine]			
t	+	- [With 2.0L turbo gasoline engine and without BOSE System]	33	60	- [With VR30 engine]	74	88	- (With 2.0L turbo gasoline engine)	Connector Name		SATELLITE SPEAKER RH
1	t		33	9	- [With 2.0L turbo gasoline engine]	74	_	- [With VR30 engine]	Connector Type	Γ	TKOZEBR
	T	- [With 2.0L turbo gasoline engine and with BOSE system]	34	15	L	75	S.	- [With 2.0L turbo gasoline engine]		1	
2	-	- [With VR30 engine]	35	9	- [With VR30 engine]	75	>	- [With VR30 engine]	Œ		
2 \$	SHIELD - [Wi	- [With 2.0L turbo gasoline engine]	35	H	- [With 2.0L turbo gasoline engine]	92	g.	- [With VR30 engine]			
~	L	- (With 2 Of turbo gasoline engine)	8	╀	- [With VR30 engine]	75	>	- [With 2 OI turbo gasoline angine]	5.5		
2 0	t	DMith VB20 angles and with BOSE custom	8 96	ł	Mith 2 Of turbo english	7.		facility of the color of the co			2 1
, ,	t	DMith VB20 coming and without BOSE customs	3 5	+	Datish 2 Of surbo continuo continuo da unisha di BOSE curroni		-				
t	6	Mark Woo carried	è c	+	DAGE VOO Commission of the Com	0 6	ه د				
t	1	- [with veatering]	ام	+	[außia ocua ilian] -	6/	2 5				
4 1	1	- [with 2.0L turbo gasoline engine]	Ŷ i	+	- [with 2.0L turbo gasoline engine and with BUSE system]	8 8	5	- [With 2.0L turbo gasoline engine]	-		
n	+	- [With VK30 engine]	8	+		80	>	- [With VK30 engine]	ē	5 500	Signal Name [Specification]
+	+	- [With 2.0L turbo gasoline engine]	8	+	- [With VR30 engine and without BOSE system]	150	В	- [With VR30 engine]	No.	Wire	
+		- [With VR30 engine]	39	+	- [With 2.0L turbo gasoline engine]	81	œ	- [With 2.0L turbo gasoline engine]	-	_	
9	┪	 [With 2.0L turbo gasoline engine] 	33	≥	- [With VR30 engine and with BOSE system]	82	_U	- [With 2.0L turbo gasoline engine]	2	۵	
7		- [With 2.0L turbo gasoline engine and with BOSE system]	40	9	-	82	SHIELD	- [With VR30 engine]			
7	Ť	- [With VR30 engine and without BOSE system]	41	_	-	83	œ	- [With 2.0L turbo gasoline engine]			
7	W - [With VF	- [With VR30 engine and with BOSE system]	45			83	*	- [With VR30 engine]	Connector No.		879
7	Y - [With 2.0L tu	· [With 2.0L turbo gasoline engine and without BOSE System]	43	SHIELD		84	BR	- [With VR30 engine]	Connector Name		BEAR WOORED
80	B - [With VF	- [With VR30 engine and with BOSE system]	44	а		84	SHIELD	- [With 2.0L turbo gasoline engine]			WEST WOOLEN
00	6 - [Wi	- [With 2.0L turbo gasoline engine]	45	80	- [With 2.0L turbo gasoline engine]	82	BG	- [With VR30 engine]	Connector Type		NS02FW-LC
00	Y - [With VR3	- [With VR30 engine and without BOSE system]	45	9	- [With VR30 engine]	85	ŋ	- [With 2.0L turbo gasoline engine]	Ü		
6	LG - [Wii	- [With 2.0L turbo gasoline engine]	46	SHIELD		98	×	- [With 2.0L turbo gasoline engine]	E		
6	SHIELD	- [With VR30 engine]	47	g		86	>	- [With VR30 engine]	·		
10	>		48	98		87	9	- [With VR30 engine]	N. H.		
┢	GR	,	49	H		87	SHELD	- [With 2.0L turbo gasoline engine]			<u>]</u>
ł	; >		5	╀		8	٥	[a6]			2 1
1 2			3 2	. 8		8 8	2 .	DMith 3 Of turbo garding garding			
+	١ -		7	+		26		- [with 2.0t turbo gasonine erigine]			
+	4		25	≥	- [With 2.0L turbo gasoline engine]	06	>	- [With VR30 engine]			
+		 [With 2.0L turbo gasoline engine] 	25	+	- [With VR30 engine]	95	_	 [With 2.0L turbo gasoline engine] 			
\dashv	GR	- [With VR30 engine]	23	\dashv		95	≥	- [With VR30 engine]			
16	>		54	æ		93	ď	- [With VR30 engine]			
17	<u>ـ</u>		22	_	-	93	SHIELD	- [With 2.0L turbo gasoline engine]			

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15 W .	5	t	19 B - [With 2.0L turbo gasoline engine]	Н	20 GR - [With VR30 engine]	SHIELD	B - [With	+	+	23 W	-		Connector No. 8123	. 1	Connector Type TK04FW-J		S.	1 2 6 4 11			Terminal Color Of	┪	1 SHIELD -	S SHIELD	9			Connector No. B127	L		Connector Type NH20FG-DC				Ω ! Ω !	20 19 18 17 15 14 13 11 10				
- IWith 2.0L turbo gasoline engine and without gateway]			- [With 2.0L turbo gasoline engine]		- 5		- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	angine]	- [With VR30 engine] 2	- [with VR30 engine]		Conn		LConn R120	JOINT CONNECTOR-B02	24342 4GA2A			5 t 11 10 9 8	13	24 23 22 21 20 19 No.			Signal Name [Specification]	- 4		- [With VK30 engine] - [With 2.01 turbo gasoline engine]	Γ	- [With 2.0L turbo gasoline engine]	Conn		Atth	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]			
IE)	14 B	╀	15 R	16 L	17 L	18 L	7	19 SHIELD	+	20 SHIELD	21 SHIELD	Н	23 R		Connector No.	Connector Name	Connector Type		E	H.S.				orania langua		Н	2 R		4	4 R	2 2	л . 9	- R	٦ 6	9 R	10 L	+	+	13 W K	Н
WITH NAVIGATION) (2.0L TURBO GASOLINE ENGINE:			P - [With VR30 engine]	Y - [With 2.0L turbo gasoline engine]		1	. B118	me JOINT CONNECTOR-B04	T	pe 24342_4GA2A		5 4 3		24 23 22 21 20 19		Color Of Signal Name [Specification]	- [With VR30 engine]	engine]		SHIELD - [With 2.0L turbo gasoline engine]	LG - [With VR30 engine]	SHIELD - [With 2.0L turbo gasoline engine]	\downarrow	D - [With 2.0L turbo gasoline engine]	ingine	₩	<u>C</u>	LG - [With 2.0L turbo gasoline engine] R - [With VR30 engine and without paddle shift]	T	П	+	≥	LG - [With 2.0L turbo gasoline engine] SHIFLD - [With VR30 engine]	- [With	SHIELD - [With VR30 engine]	- [With	SHIELD - [With VR30 engine]	- [With VR30 engine]	†	L - [With VR30 engine]
VIGATIO	ŀ	23	24	24			Connector No.	Connector Name		Connector Type	1	N I				Terminal Colc	t	1 SH	2 (3 8	4	4 SHI	2	†	HS 9	Н	+		╁	Н	+	+	10 SH	t	11 SH	Н	+	+	+	14
TOUCH (BOSE AUDIO	Signal Name [Specification]					B116	JOINT CONNECTOR-B06		24342_4GA2A	צוו		11 10 9 8 7	24 23 22 21 20 19			Signal Name [Specification]						- [With Gateway]	- [Without Gateway]	- [With Gateway]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		- [With Gateway] - [Without Gateway]			- [With		1	- [With VR30 engine]			_	- [With 2.0L turbo gasoline engine]	1	D - [With VR30 engine]
INFINITI IN	No.	+	2 L			Connector No.	Connector Name		Connector Type	€.	THE STATE OF THE S	i.S.			Terminal Color Of		2 1	3 1	4 L	0 9	- L	8	>	6 0	10 k	H	+	12 P	t	14 SHIELD	+	15 SHIELD	16 L	t	17 SHIELD	Н	18 SHIELD	+	20 L	20 SHIELD

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< WIRING DIAGRAM > [INFINITI INTOUCH]

	21 SHIELD -	П	23 BG -	+	+	27 6	+	+	+	+	- FG	52 p		56 Y -	\dashv	-		. 9 09	63 8 -		65 BR -	\dashv	+	\dashv	71 8G .	\dashv		ſ	Connector No. D23	Connector Name FRONT DOOR SQUAWKER RH	Т	Connector Type TKUZFBR			<u> </u>	2 1			Terminal Color Of Signal Name (Secretion)	Wire	1 У	2 BG -							
71 LG .		Connector No. D11	Connector Name FRONT DOOR SQUAWKER LH	Connector Type TYO2ERP	1	4		<u> </u>						<u>_</u>		1 BG -	2 Y -			Connector No. D18	Coppertor Name W/IRF TO W/IRF	П	Connector Type NH60FW-TS12	á				(12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13				Signal Name [Specification]	+	2 P	H	5 BR -	-	- 91 2	 · 1 6	10 L	Ĭ	13 Y -	+	16 R					
									•			-					-	•			- [Color of wire differs depending on production]	- [Color of wire differs depending on production]			•	-				-	-	- [Color of wire differs depending on production]	Supplied on clothing and to							•									
15 Y 16 GR 17 R	H	Н	20 W	21 LG	+	24	+	+	+	+	4	29 B	30 W	31 P	\dashv	33 BR	34 L	35 R	36 GR	37 G	40 LG	\dashv	_	43 BG	44 Y	\dashv	47 R	49 BR	+	+	+	55 GR	+	╀	L	V 65	9 09	61 BG	63 SB	64 B	\dashv	66 BR	۸ - 89	1 69	-				
Signal Name [Specification]								- fMith VD30 engine	[Mith 2 0] turks expline coning]	TANKIN Z.OL (GIDO BASOIIILE ENBIRE)	- [with vk30 engine]	- [With 2.0L turbo gasoline engine]					-					D4	WIRE TO WIRE		NH60FW-TS12					277 7 8 8 6 7 3 3 3 3 3 3 3 3 5 3 3 5 3 3 5 3 3 5 3 3 5 3 5 3 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 5 3 5				Signal Name [Specification]															
Terminal Color Of No. Wire	2 SHIELD	3 SHIELD	4 SHIELD	S SHIELD	+		+	ł	٥	Ť	11	1	13 BG	14 BG	\dashv	4	18 LG	91 6	20 LG			Connector No.	Connector Name	П	Connector Type		昼	٦	2				Terminal Color Of	No. Wire	H	4 BG	5 R	^ 9	9 8	9 GR	┪	11 SHIELD	+	13	-				

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INFINITI INTOUCH (BOSE AUDIO WITH I	WITH NAVIGATION) (2.0L TURBO GASOLINE ENGINE)	GINE) Connector No. D49	Connector No. D51
Connector Name WIRE TO WIRE	Je	Je	9
Connector Type NH10MW-CS10	Connector Type NH10MW-CS10	Connector Type NS02FW-LC	Connector Type NS02FW-LC
H.S. 1 2 3 4 5 6 7 7 8 9 10 11 12 13 19 20	7 8 9 10111213 19 20	#8 	HS.
No. Wire Signal Name (Specification) 1 8R 2 Y 3 3 W	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification] 1 8R	Terminal Color Of Signal Name [Specification] No. Wire	Terminal Color Of Signal Name Specification No. Wire 1 W 2 L .
	7 B	Connector No. D50	Connector No. D52
P - [With BOSE system]	Ь	Connector Name TWEETER I H	Connector Name TWEETER RH
R - [Without BOSE system] BR - [With BOSE swetem]	19 R - [Without BOSE system]	Т	
Ï			1
Connector No. D39 Connector Name REAR DOOR SPEAKER LH Connector Type NSD2FW-C5	Connector No. Dd8 Connector Name REAR DOOR SPEAKER RH Connector Type NS02FW-C5	H.S.	H3.
HS.	#S.	Terminal Color Of Signal Name Specification No. Wire 1 86 2	Terminal Color Of Signal Name Specification No. Wire Y
Terminal Color Of Signal Name [Specification] No. Wire I P I With BOSE excrem]	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification]		
BR - [With BOSE system]	2 BR - [With BOSE system] 2 L - [Without BOSE system]		

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< WIRING DIAGRAM > [INFINITI INTOUCH]

Connector No. E195 Connector Name WIRE TO WIRE Connector Type TX36FW4NS10	H.S. ENGREGATION DESCRIPTION OF 1.1.7.7.	Terminal Color Of Signal Name (Specification No. Write S BR S S S S S S S S S	13	1 1 5	 	37 SHELD
51NE) Connector No. E35 Connector Name Association was accessive connector Type SA220F953/24-U	H.S.	Terminal Color Of Signal Name (Specification) No. Wire GND Supering Name (SALD Supering Name (SALD Supering Name Supering Name	4 Y MOTOR BATTERY 5 IG STOP LAMP BY SIGNAL [WITH ASC] 5 V STOP LAMP BY SIGNAL [WITH ASC] 7 GR REH WHEEL SCHOOL SIGNAL 8 G C STOP LAMP BY SIGNAL [WITH ASC] 8 G C STOP LAMP BY SIGNAL [WITH ASC] 9 G G SED LAMP BY SIGNAL [WITH ASC]	B B C R C R	N	
NAVIGATION (2.0L TURBO GASOLINE ENGINE)	Connector No. E22 Connector Name CHASSIS CONTROL MODULE Connector Type TH24FW-NH	1.3. 4 5 6 7 8 1011112 1.3. 4 5 6 7 8 1011112	Terminal Color Of Signal Name (Specification)	DRIVE MODE SELECT'S PORIVE MODE SELECT'S WITC PORIVE MODE SELECT'S WITC PORIVE MODE SELECT'S WITC PORIVE MODE SELECT'S W CHAS.	IGN [WITH IGN GROUND [W CHASSIS COMM CHASSIS COMM ESS RELAY [V	
INFINITI INTOUCH (BOSE AUDIO WITH N Connector No. D58 Connector Name IOINT CONNECTOR-D01 Connector Type NSSGEW-J	H3.	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) 1 86 - With BOSE system 1 8R - With With BOSE system 2 86 - With BOSE system 2 88 - With BOSE system 1 88		V CR ≺ CR	Connector No. DS9 Connector Name JOINT CONNECTOR-D02 Connector Type NS067W-J	Terminal Color Of Signal Name [Specification]

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≫ ∪ ¢	40 B SHIFTD	L L/R_DET		Connector No. M14	Connector Name BCM (BODY CONTROL MODULE)	Connector Type TH40FB-NH	Œ		(1.2) (2) (3) (4) (4) (4) (4) (4) (4) (4)	80 73 77 77 77 75 77 77 79 69 67 66 65 64 62 64 E2 61			la l	No. Wire PHISH-BTN IGN SW III DWR	: 0	>	R	а	+	61 G KEAK WINDOW DEF KLY CON I	4 >	8	В	Y BLOWER FAN F	67 W/B IGN RLYAY (F/B) CON I	GR A/T SHIFT	70 B IGN RLYAY (IPDM E/R) CONT	9		75 BR COMBISWINDITS	3 >	· >-	79 LG COMBISW INPUT 1	80 L TRLID OPNR SW				
ACC [F.	V ACC [For VR30 engine]	L	R IGN [For VR30 engine] W IGN [For 2.0L turbo gasoline engine]	BR CAMERA SWITCH SIGNAL	LG AIR BAG INDICATOR OFF SIGNAL			ne INTEGRAL SWITCH	е Тусо_1554987-6	[27 28	29		or Of	Wire Specification	W LVDS (+)	B LVDS (-)	SMIELD		M3	ne INTEGRAL SWITCH	T	HIZFW-NH			30 31 32 33 34	36 37 38 39 40 41				Wire Signal Name [Specification]	BR ILL	W GND	R ENCD-B SIGNAL	W PUSH SWITCH A SIGNAL	ILLU
	15	+	18	19	20		Connector No.	Connector Name	Connector Type	<u>4</u>		Ź				Terminal Color Of	\dashv	\dashv	+	FS 67		Connector No.	Connector Name		Connector Type	Œ	į.	2				Terminal Color Of	No.	30	Н	32	+	Н
WITH NAVIGATION) (2.0L TURBO GASOLINE ENGINE: Connector No. E220 Connector Name JOINT CONNECTOR-EDS	Т	1		7. T	16 15		Tarminal Color Of		3 W	7 W	1 8	11 w .		15 P - [Without Gateway]		19 P - [Without Gateway]	19 R - [With Gateway]	1	۵	23 K - [With Gateway]			Connector No. M1	Connector Name INTEGRAL SWITCH	Connector Type TH24FW-NH	1			2 3 4 7 8	13 14 15 16 18 19 20			Terminal Color Of Constitution (Constitution)	No. Wire Signal Name [Specimentori)	2 R ILLUMINATION SIGNAL	91 83	-	
NFINITI INTOUCH (BOSE AUDIO WITH I	Connector No. 15200	١,				H.S. 100 100 100 100 100 100 100 100 100 10				Signal Name [Specification]	t	В	. G	100 B ECM GROUND 101 G POWER SUIDDLY (MAIN)	9 8	\ C00III	104 Y SENSOR POWER SUPPLY	æ		109 P ENGINE SPEED SIGNAL DOWNER SLIDDLY	2 2	BR	BG SENSOR GROUND	BR:	12/ V FUEL PUMP ON SIGNAL 132 G ACCELERATOR PEDAL POSITION SENSOR 1	1	138 L DRIVETRAIN CAN-H	GR	143 LG REFRIGERANT PRESSURE SENSOR	145 L ACCELERATOR PEDAL POSITION SENSOR 2	, _		151 P DRIVETRAIN CAN-L	152 B EVAP CANISTER VENT CONTROL VALVE	153 G EVAP PURGE CONTROL VALVE			

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[INFINITI INTOUCH] < WIRING DIAGRAM >

WIRE TO WIRE THBOMW-CS16-TM4 T	G With VR30 engine
i Specification)	N N N N N N N N N N N N N N N N N N N
e (Specification)	SB SWIELD LG B B B B B B B B B B B B B B B B B B
	SB SB SHELD H. L.
	SHIELD LG
	SHIELD L B B LG LG
	1 B B 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1
	8 91 IC
	91 9
	3 5
	O I
I	- [with vk30 engine]
- 36	W
	5 R - [With VR30 engine]
- [With VR30 engine] 36	5 V - [With 2.0L turbo gasoline engine]
	7 R - [With VR30 engine]
- [With 2 01 turbo easoline engine]	ŀ
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n vksu enginej	+
engine	×
- [With VR30 engine] 39	V - [With VR30 engine and with BOSE system]
- [With 2.0L turbo gasoline engine] 40	. 9 (
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ingine]	B - [With
- [With VR30 engine] 45	5 G - [With VR30 engine]
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	L - (With DRPO)	+	GR .		4	+	+	SB -	+	+			В .		8S	W - [Except with VR30 engine and without ISS]	Y - [With VR30 engine and without ISS]	BG			^				\dashv	- 51	1	+					۸ -			BR -		^		- 91	۸ ا									
	25	56	27	28	29	30	31	32	m	34	32	36	37	40	41	43	43	44	46	47	49	20	52	23	55	26	27	28	29	9	61	62	63	64	9	99	89	69	70	71	72									
	CAN-H	KLINE [With 2.0L turbo gasoline engine]	KLINE [With VR30 engine]	IGN_SW	M_CAN_H	CAN-L	CAN-H	CAN-L	POWER			M33	WIRE TO WIRE		NH60MW-TS12				147 333 332 333 333 34 44 5 5 5 5 5 5 5 5 5 5 5 5 5	3697868204733 67 68 8 77 72	4			Signal Name (Specification)	i communadol acuna music				•											•		- [With DRPO]	- [Without DRPO]			- [Without DRPO]	- [With DRPO]		•	- [Without DRPO]
	٦	> [>	>	SB	æ	_	Ь	8				r Name		or Type									Terminal Color Of	Wire	Α	o	9	æ	æ	GR	GR	*	SHIELD	Ь	SB	16	*	γ	Ь	W/B	97	>	>	m	BG	o	٦	γ	BG
INE)	9	_	_	80	11	12	13	14	16			Connector No.	Connector Name		Connector Type		E	¥.	Ś					Termina	No	2	4	2	9	7	∞	6	10	11	12	13	14	15	16	17	18	19	19	20	21	22	22	23	24	25
LINE ENG	(gine	: system]		[e]		ſ	T		1										Г		i i	Γ	2)	П	5)	1)	out ISS]	iout ISS)	T 2)		IT 2)								F				_	1						
H NAVIGATION) (2.0L TURBO GASO	۵	Y - [With VR30	BR	100 W - [With 2.0L turbo gasoline engine]			Connector No. M24	Connector Name CAN GATEWAY	П	Connector Type TH12FW-NH	¢			1 3 1 5 6	· ;	7 1 1 0 1 6 1 7			Terminal Color Of Cincal Manage (Consideration)	No. Wire Signal Name (Specification)	1 L CAN-H (CAN COMMUNICATION CIRCUIT 1)	3 W BATTERY POWER SUPPLY	4 L CAN-H (CAN COMMUNICATION CIRCUIT 2)	5 B GROUND	6 L CAN-H (CAN COMMUNICATION CIRCUIT 2)	۵	œ	W	\dashv	æ	12 R CAN-L (CAN COMMUNICATION CIRCUIT 2)			Connector No. M25	ONTA LINK CONNECTOR		Connector Type BD16FW	Ĺ			11112113114 116	3 4 5 6 7 8	11			Terminal Color Of	No. Wire Signal Name [Specification]	3 LG M_CAN_L	4 B EARTH	5 B EARTH
TOUCH (BOSE AUDIO WITH NAVIGATION) (2.0L TURBO GASOLINE ENGINE)	۵	> :	100 BR	engine] 100 W	- [With VR30 engine]		Connector No.	ngine] Connector Name	П	Connector Type	- [With 2.0L turbo gasoline engine]		engine]	V 6	· ;	2111018 7		- [With 2.0L turbo gasoline engine]	Terminal Color Of	No. Wire	- [With 2.0L turbo gasoline engine] 1 L CAN-H (CAN COMMUNICATION CIRCUIT	w E	4	ngine) 5 B	J 9	- [With VR30 engine] 7 P	- [With 2.0L turbo gasoline engine] 9 R	M 6	10 R	11 B	œ		- [With 2.0L turbo gasoline engine]	Connector No.			Connector Type		- [With VR30 engine]		- [With 2.0L turbo gasoline engine]	7	11	- [With VR30 engine]	- IWith 2.0L turbo gasoline engine	Color Of	No. Wire	3 LG	4 B	В
NFINITI INTOUCH (BOSE AUDIO WITH NAVIGATION) (2.0L TURBO GASO	۵	→ 66 - 1 - 1 - 1 - 1 - 1 - 1 - 1	. 100 BR	- [With 2.0L turbo gasoline engine] 100 W	R - [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]		- [With VR30 engine] Connector Type	1		- [With 2.0L turbo gasoline engine]	1 3 1	· ;	7 1 1 1 0 1 6 1 7	٥	GR - [With 2.0L turbo gasoline engine]	- [With VR30 engine] Terminal Color Of	No. Wire	T T	w E	4	S B	- [With VR30 engine] 6 L	- [With VR30 engine] 7 P	D - [With 2.0L turbo gasoline engine] 9 R	- [With VR30 engine] 9 W	- [With 2.0L turbo gasoline engine] 10 R	11 B	12 R			- [With VR30 engine] Connector No.	Compart Name		Connector Type				1.3.	7		y - [With VR30 engine]	R - With 2.0L turbo gasoline engine	- [With VR30 engine] Terminal Color Of	No. Wire	- [With 2.0L turbo gasoline engine] 3 LG n	4 B	- [With VR30 engine and with BOSE system] 5 B

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< WIRING DIAGRAM > [INFINITI INTOUCH]

Connector No. MSS Cornector Name COMBINATION METER Connector Type IT+12FW-NH		Terminal Color Of Signal Name [Specification] No. Wire	41 L	AL 42 P CAN-L	>	M S	45 BG IGNITION SIGNAL (EXCEPT WITH VR3D engine and without ISS) 46 R IGNITION SIGNAL [With VR3D engine and without ISS]	SB	LG A	51 BR FUEL LEVEL SENSOR SIGNAL	٥		Connector No. M60	Connector Name NAVI CONTROL UNIT	Connector Type TH28FW	4	多	H.S. [11 3 15 17 1 1919]	122	loc)	line	Terminal Color Of	No. Wire Signal Name [Specification]	1 Y	8 E	5 SB AO	+	+	SHIELD	W VOICE GUIDAN	>	
Gomestor No. M57 Cornector Name COMBINATION METER Cornector Type TH40PW-NH		Terminal Color Of Signal Name [Specification] No.	8	6 GR STOP/START OFF SWITCH INDICATOR SIGNAL 7 G SECTION SIGNAL		w e	13 BR LED HEADLAMP (HJ) WARNING SIGNAL	>	>	17 BR METER CONTROL SWITCH GROUND	B STEERING	22 P STEERING SWITCH SIGNAL A	W/B	24 L WASHER LEVEL SWITCH SIGNAL 25 IG BRAKE FILID LEVEL SWITCH SIGNAL	>	27 G PASSENGER SEAT BELT WARNING SIGNAL	ť	SB o	g	31 L NON-MANUAL MODE SIGNAL [With 2.0t turbo gasoline engine 22 RG MANULIA! MODE CHIET LID SIGNA!	GR MANU.	۵	34 BG PADDLE SHIFTER UP SWITCH SIGNAL	9	>	37 GR ILLUMINATION CONTROL SWITCH SIGNAL (-)	×					
	64 R 6		Connector No. M55	Connector Name MULTIFUNCTION SWITCH	Connector Type TH12FW-NH	4	7	H.S.	- Ç	2		Terminal Color Of Girmal Mamo (Condification)	0	1 BR ILL	ENCI	4 R PUSH SWITCH A SIGNAL	5 W POSH SWITCH C SIGNAL		9	10 B PUSH SWITCH B SIGNAL	L/R DE											
M34 WIRE TO WIRE NHGONW-TS12		f Signal Name [Specification]		- [Odga +:iwi] -	- [Without DRPO]										1	- [With DRPO]		,	- [Without DRPO]	- [With DRPO]		- [Without DRPO]	- [With DRPO]			- [Without DRPO]	- [with DRPO]		,			
Connector No. Connector Name Connector Type	H.S.	Terminal Color Of No. Wire	Ħ	2 V		H	9 C	8 W	\dashv	10 V	13 16	H	H	17 B	+	20 SB	20 7	t	Н	23 P	+	┝	26 BR	H	28 SB	+	30 W/B	49	. v	55 B	56 SB	

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Connector No. M97 Connector Name BACK-UP LANP RELAY Connector Type MSOZFI-M2-LC SAME SAME SAME SAME SAME SAME SAME SAME	Terminal Color Of Signal Name (Specification)	Connector No. M/98 Connector Type Tyro_1354987.5 H.S. Type Type Type Type Type Type Type Type	Terminal Color Of Signal Name Specification No. W/re USB GND 1	
Connector No. M92	Terminal Color Of Signal Name Specification No. Wire Signal Name Specification	7 1 L	e	Terminal Color Of Signal Name [Specification] No. Wire 1 8R
17 8 GND G	Terminal Color Of Signal Name (Specification) No. Wr. Wisher Stepan Stepan 39	Connector No. M87 Connector Name Conditional Switch (Spited Coald) Connector Type TKG8FGY-1V LS. 25 24 31 32 25 24 31 32	Terminal Color Of Signal Name [Specification] No. Wire 24 P -	
INFINITI INTOUCH (BOSE AUDIO WITH N	Connector Name NAVI CONTROL UNIT Connector Type Tyco_1554987-3 HAS.	Terminal Color Of Signal Name Specification No. Wire 1 U/OS (+) 31 W 1 U/OS (+) 32 B 1 U/OS (+) 33 SHELD SHELD SHELD Connector No. M62 Connector Name NAVI CONTROL UNIT Connector Type Tvo. 1554989.4	7	No. Write Signal Name [Specification] 34 G

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[INFINITI INTOUCH] < WIRING DIAGRAM >

Management of the state of the	H.S. 92 883
lar O	Terminal Color Of Signal Name (Specification)
SIGNAL (-)	w c
78 B	94 SHIELD SHIELD
SIGNAL RH (-)	
SOUND SIGNAL LH (-) Connector No. M103	Connector No. M112
CE SIGNAL (-) Connector Name DISPLAY CONTROL UNIT	Connector Name FRONT SQUAWKER RH
VOICE GUIDANCE SIGNAL OUTPUT (-) Connector Type Tyco_1554987-1	Connector Type TK02FBR
T	•
- QNE	_
201	13.
SHIELD SHIELD	
Terminal Color Of	Terminal Color Of Signal Name [Specification]
80	t
RH(+) 81 W U	2 1 .
82 K	T
84 SHIELD	
SHIELD	
E SIGNAL OUTPUT (+) CE SIGNAL INPUT (+)	
HELD	
MICROPHONE SIGNAL	
[Without telematics system]	
_ [With telematics system] PHONE V.C.	
OWER SUPPLY	
OWENSOPLI	
n 14100	Terminal Color of No. Wire 77 W M. 778 B B 79 SHELD Connector Name OISPLAY Connector Name OISPLAY Connector Type Tyco. 155 LL S 81 SHELD No. Wire 82 R SHELD SHELD No. Wire 82 R SHELD No. Wire 82 R SHELD SHELD No. Wire 84 SHELD S

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INFINI	NFINITI INTOUCH (BOSE AUDIO WI	TH NA	VIGAT) (NOI	WITH NAVIGATION) (2.0L TURBO GASOLINE ENGINE)	NGINE	_			
Connector No.	No. M115		28C	W		14	t SB	- [With 2.0L turbo gasoline engine]	Connector No.	M142
Connector Name	Name FRONT SQUAWKER LH		29C	>		12	\dashv	- [With VR30 engine]	Connector Name	EXTERNAL DATA INPUT BOX
	╗	_ _	3C	œ		15	\dashv	- [With 2.0L turbo gasoline engine]		٦
Connector Type	Type TK02FBR	_ _	30C	œ		16	SB	- [With 2.0L turbo gasoline engine]	Connector Type	GT17VS-10DS-HU
Q		_1	310	>		16	+	- [With VR30 engine]	1	
THE T			32C	۰		17	SB	- [With 2.0L turbo gasoline engine]	李	Œ
Si.			330	m ,	- [With VR30 engine]		+	- [With VR30 engine]	SH	C 4
	<u> </u>		330	~	- [With 2.0L turbo gasoline engine]	188	S S S	- [With 2.0L turbo gasoline engine]		
		_1	34C	M/B		81	+	- [With VR30 engine]		S 5 8
			35C	SB		19	3 SHIELD			
			36C	В	_	20	R	-		
			37C	W		21	R R			
Terminal Color Of	Color Of Sirnel Name (Secriffication)		38C	SB		22	SHIELD		Terminal Color Of	feethers [see] JC
No.	Wire Signal Ivalie (Specification)	_	39C	^		23	3		No. Wire	
1		 	30	۵		24			1	USB D+ SIGNAL
2	^		40C	9					2 W	USB V BUS SIGNAL
		1	4C	_					3	USB D- SIGNAL
		<u> </u>	2C	۵		Conn	Connector No.	M137	4	USB GND
Connector No.	No. M133	Г	29	g		Ļ	:	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	7 6	USB GND
	3	<u> </u>	7C	9		Conne	Connector Name	JOIN CONNECTOR-MILE	80	USB D- SIGNAL
Connector Name	Name FUSE BLOCK (J/B)		8C	9		Conn	Connector Type	24342 4GA2A		USB V BUS SIGNAL
Connector Type	Type TH40FW-NH		96	>][10 L	USB D+ SIGNAL
	l	י 1				Œ	•		11 SHIELD	
Œ						-		5 4 3 2 1	1	
		ت	Connector No.		M135	1	Žį.	11 10 9 8 7		
Ġ.		L`	Omega Money	Г	OOM GOLDSININGS TINIO	_		15	Connector No.	M143
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		1	Connector Type		24342_4GA2A				CONTROL INGINE	
		<u> </u>	ń			l			Connector Type	TH12FW-NH
	-	<u> </u>	F		6 6 4 3 5 4	Terminal	_	Signal Name [Specification]	ą	
al	Color Of Signal Name [Specification]		Ę) ;	o'N	>		李	
No.	Wire	3	Ž		6 1		8) i	/ \ \
10C	^	_			18 17 16 15 14 13	2	В		1.3	12 13 14 16 17
12C	٠ - ١	_			24 23 22 21 20 19	3	В			00 01
13C	٠.	_				4	В			20 21 22
14C		 				2	6			
15C		_	rerminal C	Color Of	Signal Name (Specification)	7	В			
16C		_	No.	Wire	financia del acciono del	8	В		lal	Of Signal Name (Specification)
17C			1	8		6	8		No. Wire	
18C	BG - [Without DRPO]		2	8		10	9 B		12 W	AUX SOUND SIGNAL LH
18C	P - [With DRPO]		3	8		11	8		13 R	AUX_AUDIO-
19C		 	4	m		13			14 B	AUX SOUND SIGNAL RH
10		I	2	<u>в</u>		14	1		16 B	GND
20C	. ·	<u> </u>	9	89		15	-		17 Y	BAT
21C			6	97		16	٦ 2		Z0 L	AUX IMAGE SIGNAL (+)
22C		<u> </u>	10	Pl		19	a R		21 V	AUX IMAGE SIGNAL (-)
23C	- 1	<u>г</u>	12	9		20	2		22 SB	ACC [Except
25C	. 91	<u> </u>	13	8	- [With VR30 engine]	21			H	t
260	SS	T	13	55	- [With 2.0] turbo gasoline engine]	2	╀			
27C		т Т	14	3 60	- [With VR30 engine]]	-			
,		ر د	1	, 	facilitation acres consult	_				

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< WIRING DIAGRAM > [INFINITI INTOUCH]

40 W	A B C
Connector No. M13:9 Connector No. M14:9 Connector No. Conn	E F G
AVIGATION (2.0L TURBO GASOLINE ENGI Connector No. Middicano Middicano	J K
MANUEL INTOUCH (BOSE AUDIO WITH NAVIGATION) (2.01 TURBO GASOLINE ENGINE) Conventent Name Victor Conventent Name Convent	M AV
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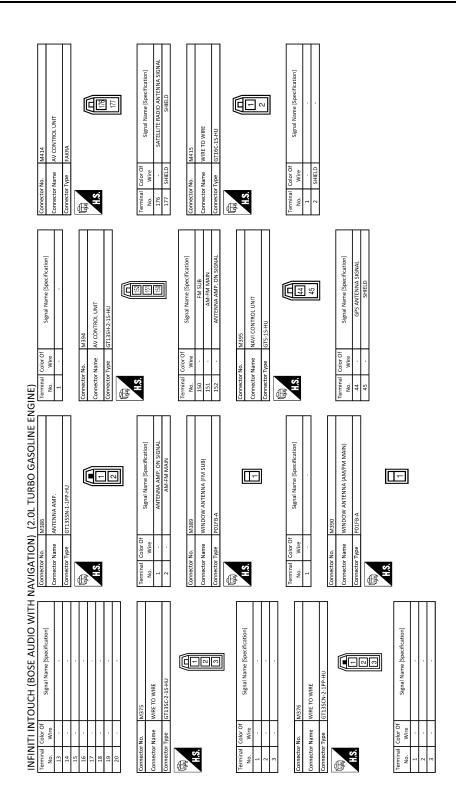
Ē T	WITH NAVIGATION) (2.0L TURBO GASOLINE ENGINE) Max	Connector No. Connector Name Connector Type	M167 AV CONTROL UNIT Tyco_1554987-1	17 17 18 18 19	1
72		医 E	[06] [68]	22	- [With
Connector No.	M166 AV CONTROL UNIT		93	23	LG - [With VR30 engine] SB - [With 2.0L turbo gasoline engine] LG - [With VR30 engine]
Connector Type	TH16FW-NH	Terminal Color Of No. Wire	Signal Name [Specification]	24	SB - [With 2.0L turbo gasoline engine]
E.S.	75 76 77 78 79	89 G 90 W 91 R	USB GND USB V BUS SIGNAL USB D- SIGNAL	Connector No.	o. M173 ame JOINT CONNECTOR-M03
	81 82 83 84 85 86 87 88	2	USB D+ SIGNAL SHIELD	Connector Type	/pe 24342_4GA2A
Te de	Signal Name [Specification] TEL VOICE SIGNAL (+)	Connector No.	M171 JOINT CONNECTOR-M01	H.S.	6 5 4 3 2 1 1 12 11 10 9 8 7 7 18 1 18 17 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18
*	VOICE GUIDANCE SIGNAL (+)	Connector Type	24342_4GA2A		-4
77 G	SOUND SIGNAL FRONT LH (+)	Œ	6543214	Terminal	Color Of Signal Name [Specification]
73 IG	SOUND SIGNAL REAR LH (+)	E.S.	11 10 9 8 7	++	
Ħ	TEL VOICE SIGNAL (-)		23 22 20 19	ı m	
83 RR	SHIELD VOICE GUIDANCE SIGNAL (-)			4 2	
84 B	SOLIND SIGNAL EBONT BH (±)	Terminal Color Of	Signal Name [Specification]	9 1	1
	SOUND SIGNAL FRONT RH (-)	H	-	. 00	
+	SOUND SIGNAL REAR RH (+)	+		6	
M 88	SOUND SIGNAL REAR RH (-)	9 B		11	œ œ
		H		12	Я.
		6 8		13	SB -
		8 B		15	
		Н		16	- [With 2
		+		16	SB - [With VR30 engine]
		+		17	- [With
		14 B		118	SB - [With VR30 engine] L - [With 2.0L turbo gasoline engine]
		16 SB	- [With VR30 engine]	18	SB - [With VR30 engine]
	_	16 Y	- [With 2.0L turbo gasoline engine]	19	BR - [With VR30 engine]

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< WIRING DIAGRAM > [INFINITI INTOUCH]

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W-DC W-DC W-DC 18 7	В
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Connector No. Connector Name Connector Type Connector Type 10	D
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5 2	G
ENGINE) Gonnector Nam Connector Nam Connector Nam Connector Nam Connector Nam (Sometor Type 13 14 14 14 15 15 16 17 18 18 19 19 19 10 10 11 10 11 11 12 13 14 14 14 14 14 14 14 14 14	Н
THE NAVIGATION C.OL TURBO GASOLINE ENGINE	1
C2.0L TURBO	J
AVIGATION) 21 1G 23 1G 23 1G 24 1G 24 1G 25 1G 26 1G 27 1G 28 1G 29 1G 29 1G 20 1G 20	К
Interengine Interengent In	L
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	AV
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< WIRING DIAGRAM > [INFINITI INTOUCH]

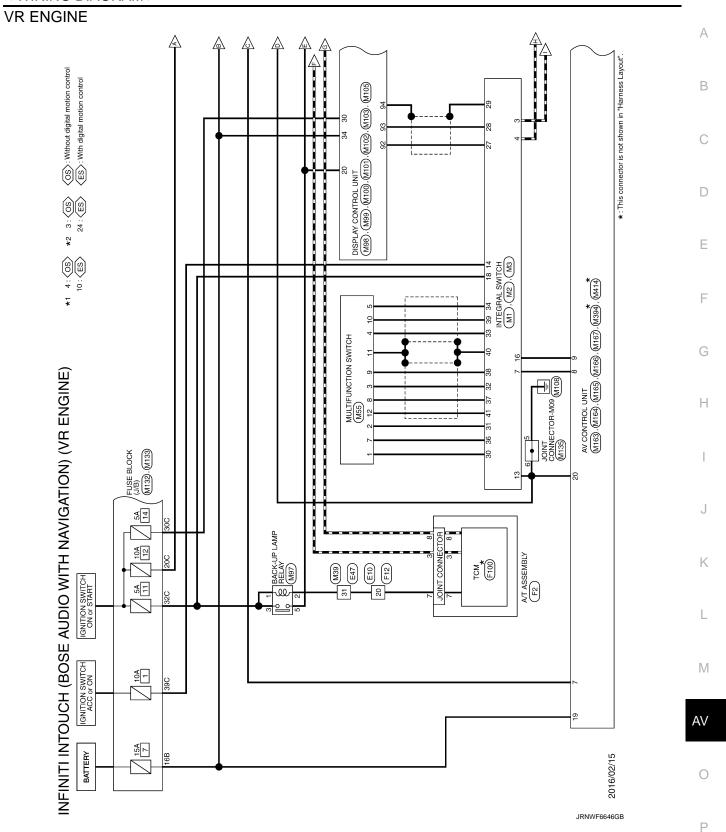
	A
MIRE TO WIRE THIGHWAN Signal Name Specification Signal Name Specification NIS WIRE TO WIRE THANNANAH B C	
Connector No. Connector Name Connector Type 1	Terminal Color of Mire No. Wire No. Wire Color of State Color of S
1516 1516 1010101	E E
NW-NHE 1 2 3 4 5 6 9 10 11 12 13 14 10 11 11 12 13 14 10 11 11 12 13 14 10 11 11 12 13 14 10 11 11 12 13 14 10 11 11 12 13 14 10 11 11 12 13 14 10 11 11 11 11 11 10 11 11 11 11 11 10 11 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 11 11 10 11 11 10 11 11 11 10 11 11 11 10 11 11 11 10 11 11 11 10 11 11 11 10 11 11 11 10 11 11 11 10 11 11 11 10 11 11 11 10 11 11 11 10 11 11 10 11 11 11 10 11 11 10 11 11 10 11 11 11 10 11 11 10 11 11 11 10 11 11	Signal Name Especification
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Commetter No. M418 Commetter No. M419	I
MA19 Signal Name [Specaring And 197] Signal Name [Specaring And 197] MA19 SATELUTE RADIO ANTENNA GT16C-1PP-HU Signal Name [Specaring And 197]	J
MAVIGATION) Connector Name Connector Type I	K
DIO WITH	L
NFINITI INTOUCH (BOSE AUDIO WITH Connector No. MA15	M
INFINITI INTOUCH Connector Name Wife 10 Wife 10 Wife 10 Wife 10 Wife 10 Wife 1 Sign 10 Wife 1 Si	AV
INFINITI II Connector Name Connector Type 1	0
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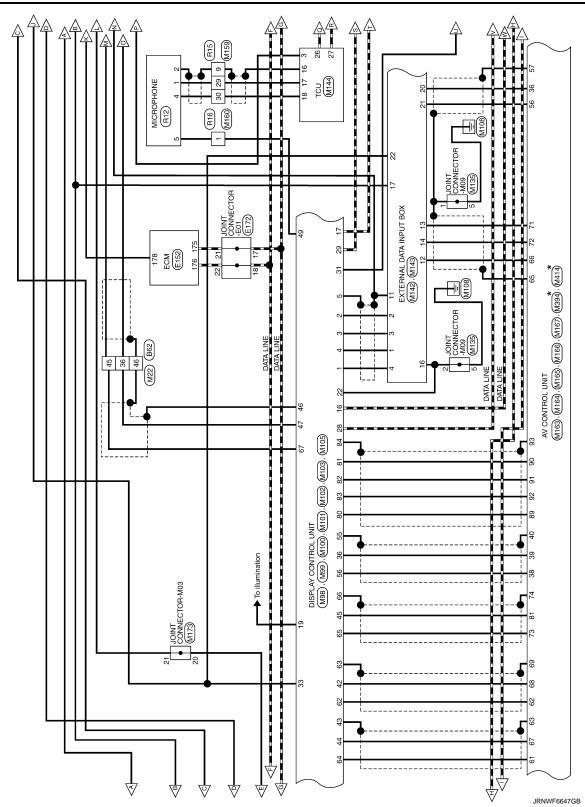
Revision: November 2016 AV-243 2016 Q50

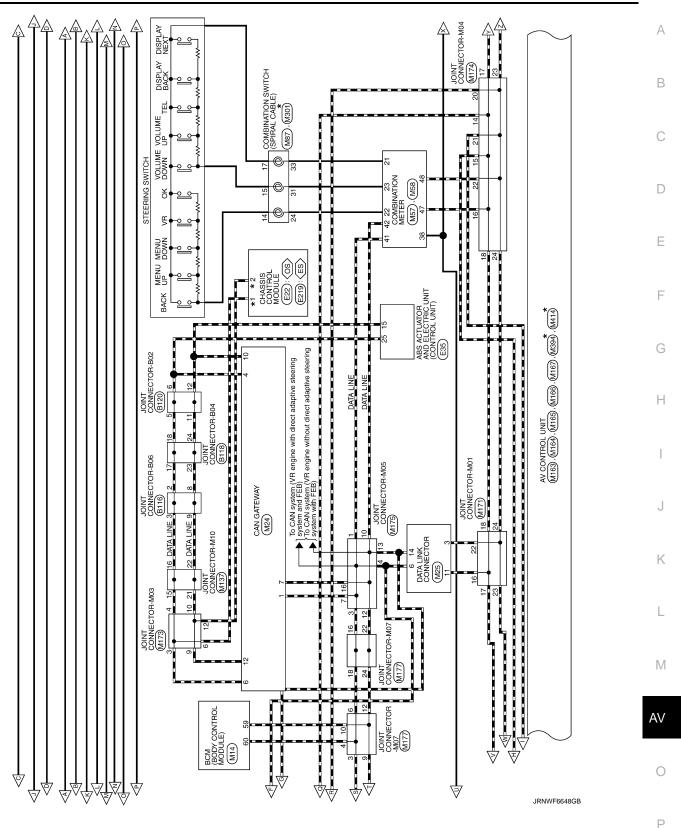
INFIN	N I	TOUCH (BOSE AUDIO WITH	NAVIGATION)	INFINITI INTOUCH (BOSE AUDIO WITH NAVIGATION) (2.0L TURBO GASOLINE ENGINE)	(BINE)
11	œ		Connector No.	R19	
12	_	•	Connector Name	FRONT MICROPHONE (ACTIVE NOISE CANCELLATION)	
13	9				
14	>	-	Connector Type	TK02FBR	
15	В	•	0		
17	SB		E		
19	BG		Š	[
20	BG	- [Without BOSE system]	Ċ.	<u>마</u>	
20	BR	- [With BOSE system]		1 2	
21	~				
22	9				
24	В				
25	BG	- [Color of wire differs depending on production]	Terminal Color Of	[mojecofficons] owney [maxi3]	
25	۵	- [Color of wire differs depending on production]	No. Wire	olgnar ivame [opecification]	
56	BR		1 W		
27	GR		2 LG		
28	8				
59	œ				
30	_		Connector No.	R20	
31	>				
32	*		Connector Name	REAR MICROPHONE (ACTIVE NOISE CANCELLATION)	
33	_		Connector Type	TKOZFBR	
36	BR				
38	SB		Œ		
40	*				
			13	1 2	
Connector No.	r No.	R16			
Connector Name	r Name	WIRE TO WIRE			
Connector Type	r Type	NS08MW-CS	Terminal Color Of		
				Signal Name [Specification]	
修			+		
	_	4 5 6 7 8			
Terminal No.	Color Of Wire	Signal Name [Specification]			
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00	>				

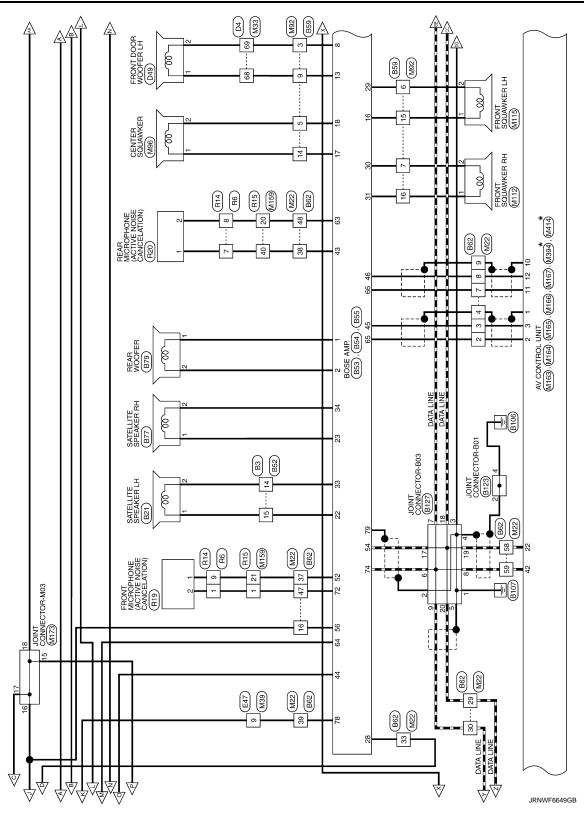
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< WIRING DIAGRAM > [INFINITI INTOUCH]

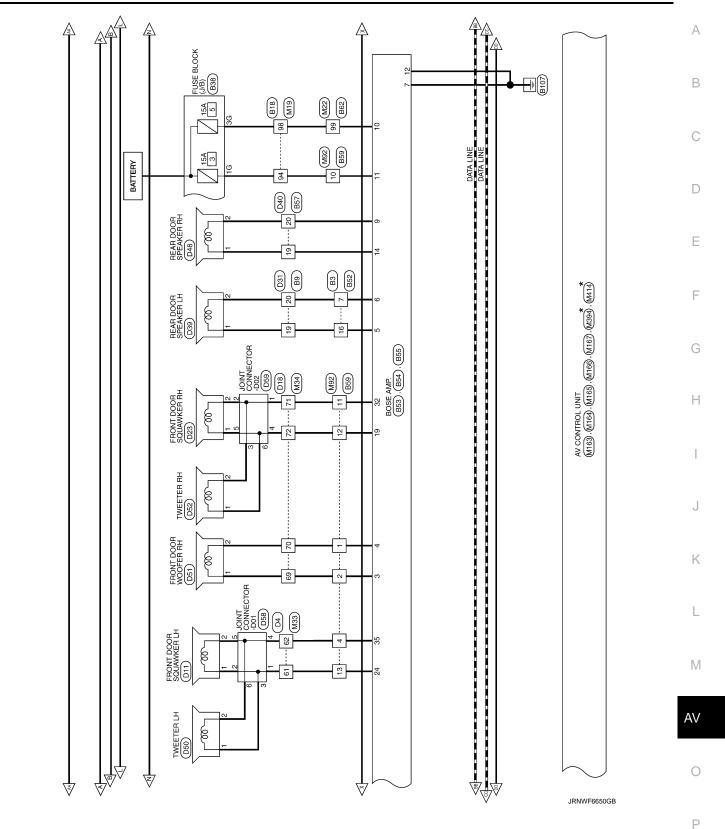


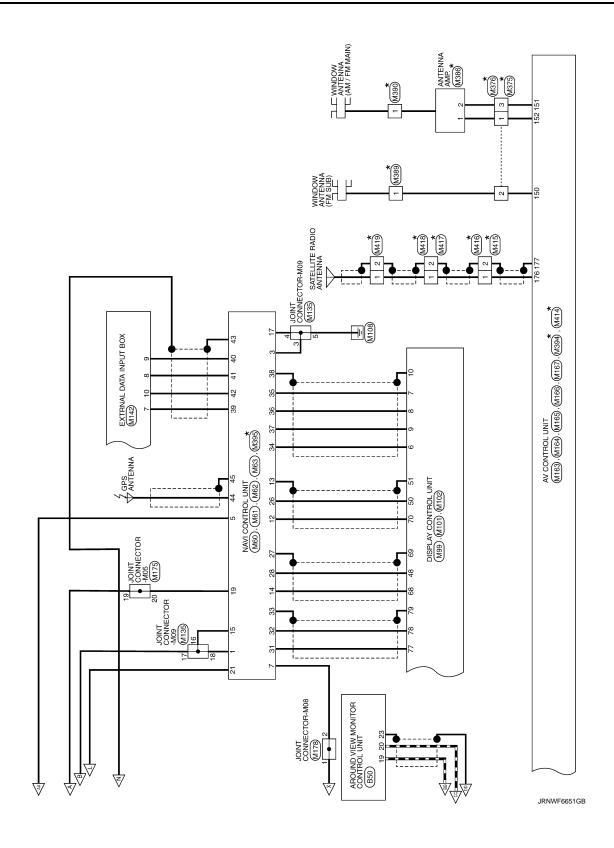






< WIRING DIAGRAM > [INFINITI INTOUCH]





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	The part Notice Control Cont	Convector Yang Wist Cokrot Cokr	9 8 8 8 8 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8	> > % >
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	1 1 1 1 1 1 1 1 1 1	A	9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	П
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Freminal Color Of Signal Name [Specification] Spiral Name [Spiral	Freminal Color Of Signal Name [Specification] Freminal Color Of Signal Nam	Terminal Color Of C	- 8 91 - 97	XI.
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Terminal Color Of	Transition Coin	Terminal Color Of Signal Name (Specification) S43 LG	. 91	
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15 V V V V V V V V V	15 V V V V V V V V V	15 V		A. S.
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State Signal Name Specification 25	State Stat	Signal Name [Specification] 25 W 13 12 11 10 10 13 12 11 10 10 13 13 13 14 14 15 14 14 15 14 15 14 14	William Description	100
1	1	5 5 4 3 2 1 20	A Land page simil	
20 19 13 12 11 10 15 14 4 5 5 5 5 5 5 5 5	20 19 13 12 11 10 10 10 13 12 11 10 10 10 10 10 10	20 19 13 12 11 10 9 77 8 78 58 78 78 58 78 7	+	56 56
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24 R With 2.01 Lurbo gasoline engine 24 R With 2.01 Lurbo gasoline engine 25 P W With 2.01 Lurbo gasoline engine 25 P With 2.01 Lurbo gasoline engine and with gateway 25 P With 2.01 Lurbo gasoline engine 25 P With 2.01 Lurbo	Terminal Color Of Feetings 24 R Feetings 25 R Feetings	Signal Name (Specification) 24	^	
Signal Name Specification 24	Signal Name [Specification] 24	Signal Name [Specification] 23	MAY DAVISH TO A A CHEST	Color Of
Signal Name (Specification 25	Signal Name (Specification) 23	Signal Name (Specification) 24	W - [With 2.0L turbo gasoline engine]	5
Signal Name Specification 25 P Winht 2 Uturb paroline regime and without previowal 83 8G P Signal Name Specification 25 W Winht 2 Uturb paroline regime and without previowal 84 L Signal Name	Signal Name Specification 25	Signal Name [Specification] 25		Wire
Wire Sign and control of prediction and office and with pattern of the control of the	Wire Wire SS V - (Wirth 201 turbo gosiline engine) 83 BG W W 1C 25 W - (With 201 turbo gosiline engine) 85 R - (With 201 turbo gosiline engine) 85 R - (With 201 turbo gosiline engine) 85 W - (With 201 turbo gosiline engine) 85 W - (With 201 turbo gosiline engine)	VM/Pe		_
LG X With With Wi30 engine] 84 L L RR RR <td>LG 25 W -[With NR30 engine] 84 L L RR RR</td> <td> 1.6 </td> <td>. BG</td> <td>M</td>	LG 25 W -[With NR30 engine] 84 L L RR	1.6	. BG	M
LG 26 G Companie BS R - [Without paddle shift] SG W R R 27 R R - [WITH VISB engline] 85 V - [With paddle shift] SG W R R R - [WITH VISB engline] R R C R R R R - [WITH D All Latting passeline pengline] R C - [WITH D All Latting passeline pengline] R R - [WITH D All Latting passeline pengline]	1.G 26 G G R - [Without paddle shift] SG W R R 27 R R - [With 201 turbo gasoline engine] RS F - [With 2.01 turbo gasoline engine] RS GR R RS GR R RS R </td <td> 1.6 2.6 6.0 8.5 8.1 8.2</td> <td></td> <td>BR.</td>	1.6 2.6 6.0 8.5 8.1 8.2		BR.
LG Companies Compa	1	N N N N N N N N N N	Contraction of the Contraction o	
K K K K K K K K K K	K	N	R - [without paddle shirt]	M
V N N N N N B B B B B G B G C B G C	V V S S R S S S S S S S	V 28 R -[With VR30 engine] 86 B 8 31 8 -[With 2.01 turbo gascoline engine] 88 G 88 -[With 2.01 turbo gascoline engine] 89 V	V - [With paddle shift]	\dashv
B	BR	8 With BOSE system 31 8 With 2.0 tumbo gasoline engine 89 V		
BR - IWith BOSE system] 3.1 BR - IWith 2.01 turbo assoline engine] 89 V	BR With BOSE system 31 BR With 2.01 turbo gasoline engine 89 V	BR - [With BOSE system] 31 BR - [With 2.01 Lurbo gasoline engine] 89 V	L	
		A 60 Islandia sumassa onom 107 intal). I val 15		
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INFIN	N E	INFINITI INTOUCH (BOSE AUDIO WITH I	VAVIG/	TIOI	D WITH NAVIGATION) (VR ENGINE)			
Connector No.	No.	850	∞	SHIELD	ELD - Connector No. B54	4	54 LG	AV COMM (L)
Connector Name	Name	AROUND VIEW MONITOR CONTROL UNIT	6	۵	. Connector Name	BOSE AMP.	26 V	ACC
			11	60			+	ENGINE TYPE SIGNAL 1
Connector Type	Type	TH40FW-NH	12	R	- Connector Type	SCA19FBR-SGA4	63 BG	REAR MICROPHONE SIGNAL
9			13	9			64 G	VOICE GUIDANCE SIGNAL (+)
B			14	В			T 59	SOUND SIGNAL LH (+)
Ě			15	Μ			W 99	SOUND SIGNAL RH (+)
2			16	BR		35 34 33 32 31 30 29 28	72 G	FRONT MICROPHONE SIGNAL
		13 23 23 23 23				242322 19181716	74 P	AV COMM (H)
			Connector No	N N	Cad		ī	CINCINC SPEED SIGNAL
			Colline	. I	Т		1	SHIELD
Terminal	Color Of		Connect	Connector Name	e BOSE AMP.			
	Wire	Signal Name [Specification]	Connector Type	or Type	SGA12FBR-SJA2 No.	Signal Name [Specification]	Connector No.	857
1	В	GND			16 P S	SOUND SIGNAL FRONT SQUAWKER LH (+)	Complete Nome	POLYN OF POLYN
2	٨	BAT	E		17 BR	SOUND SIGNAL CENTER SQUAWKER (+)	COIIIIECTOI INGILIE	Wine IO Wine
3	97	NDI	ť			SOUND SIGNAL CENTER SQUAWKER (-)	Connector Type	NH10FW-CS10
4	Ь	ACC	2		14 13 12 11 10 w 19 w	SOUND SIGNAL FRONT RH (+)	۵	
19	Ь	AV COMM (H)			9 8 7 6 5 4 3 2 1 22 W St	SOUND SIGNAL SATELLITE SPEAKER LH (+)	E	
20	91	AV COMM (L)			23 L	SOUND SIGNAL SATELLITE SPEAKER RH (+)	S	6 5 4 3 2 1
23	SHIELD	AV COMM GND			24 G	SOUND SIGNAL FRONT LH (+)	Ĉ.	
52	BG	REVERSE SIGNAL			28 B	ENGINE TYPE SIGNAL 2		13 12 11 10 9 8 7
27	_	CAN-H	Terminal	I Color Of	V 29 V	SOUND SIGNAL FRONT SQUAWKER LH (-)		18 17 16 15 14
28	۵	CAN-L [Without ADAS] [For VR30 engine]	No.	Wire	oignal Name (openination) 30 L	SOUND SIGNAL FRONT SQUAWKER RH (-)		
28	æ	CAN-L [With ADAS]	1	æ	SOUND SIGNAL REAR WOOFER (+) 31 P	SOUND SIGNAL FRONT SQUAWKER RH (+)		
28	٨	CAN-L [Without ADAS] [For 2.0L turbo gasoline engine]	2	٦	32 B	SOUND SIGNAL FRONT RH (-)	Terminal Color Of	Circui Nama (Caacification)
59	В	CAN GND	e	٦	33 8	SOUND SIGNAL SATELLITE SPEAKER LH (-)	No. Wire	Jigual value [Specification]
30	×	RETRACT MOTOR OPERATING SIGNAL (OPEN)	4	>	.) 34 P	SOUND SIGNAL SATELLITE SPEAKER RH (-)	1 1.6	
32	9	RETRACT MOTOR OPERATING SIGNAL (CLOSE)	2	BR	\forall	SOUND SIGNAL FRONT LH (-)	2 W	
			9	œ	SOUND SIGNAL RE		+	
			7	60	GND		۸ ۷	
Connector No.		B52	∞	>		5	7 B	
Connector Name	Name	WIRE TO WIRE	6	۽ ۵	SOUND SIGNAL REAR DOOR SPEAKER RH (-)	BOSE AMP.	+	
			TO	ž	BAI		Z0 P	
Connector Type	lype	NS16MW-CS	=======================================	E .	BAT Connector lype	TH40FW-NH		
Q			15	<u></u>	GND			
至了			ET :	٠ .	+			
S II'		100	14	1	SOUND SIGNAL REAR DOOR SPEAKER RH (+)			
		10 11 12 13 14 15				58 58 52 46 45 44 43 13 13 12 12 16 15 16 15 16 16 16 16		
la	Color Of	Signal Name [Specification]			ler O	Signal Name [Specification]		
No.	Wire				>			
1	- -				+	REAR MICROPHONE GND		
4 '	œ 8	Table Pool Lines			+	VOICE GUIDANCE SIGNAL (-)		
n u	ž >	- [With BOSE system]			45 A A A A	SOUND SIGNAL LH (5)		
0 1	- 6	- (Without Bose system)			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOUND SIGNAL RH (-)		
,	×				37 K	FROINT MICROPHOINE GIND		

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< WIRING DIAGRAM > [INFINITI INTOUCH]

INFINITI INTOUCH (BOSE AUDIO WIT	TH NAVI	GATIOI	WITH NAVIGATION) (VR ENGINE)						
Connector No. 859	,	BR BR	- [With 2.0L turbo gasoline engine]	36	R	- [With VR30 engine]	76	^	- [With 2.0L turbo gasoline engine]
Connector Name WIRE TO WIRE		3 R	- [With VR30 engine and with BOSE system]	36	W	- [With 2.0L turbo gasoline engine]	77	Ь	
	.,	W .	- [With VR30 engine and without BOSE system]	37	Ь	- [With 2.0L turbo gasoline engine and without BOSE system]	78	_	
Connector Type NS16FW-CS		4 SHIELD		37	ч	- [With VR30 engine]	79	R	-
(4 γ	- [With 2.0L turbo gasoline engine]	37	W	- [With 2.0L turbo gasoline engine and with BOSE system]	80	GR	- [With 2.0L turbo gasoline engine]
		5 6	- [With VR30 engine]	38	W	•	80	W	- [With VR30 engine]
		2 N	- [With 2.0L turbo gasoline engine]	39	Ь	- [With VR30 engine and without BOSE system]	81	8	- [With VR30 engine]
5 4	_	9g 9	- [With VR30 engine]	39	×	- [With 2.0L turbo gasoline engine]	81	R	- [With 2.0L turbo gasoline engine]
16 15 14 13 12 11 10 9 8		6 BR	- [With 2.0L turbo gasoline engine]	39	W	- [With VR30 engine and with BOSE system]	82	9	- [With 2.0L turbo gasoline engine]
		8	- [With 2.0L turbo gasoline engine and with BOSE system]	40	o		82	SHIELD	- [With VR30 engine]
	ľ	7 BR	Ė	41	٦	×	83	œ	- [With 2.0L turbo gasoline engine]
		^	- [With VR30 engine and with BOSE system]	42	ď		83	M	- [With VR30 engine]
Terminal Color Of Signal Manua (Supplification)		۸	- [With 2.0L turbo gasoline engine and without BOSE System]	43	SHIELD		84	BR	- [With VR30 engine]
No. Wire Signal Name (Specimeation)	~	8 B	- [With VR30 engine and with BOSE system]	44	Ь		84	SHIELD	- [With 2.0L turbo gasoline engine]
1 Y .		8 6	- [With 2.0L turbo gasoline engine]	45	В	- [With 2.0L turbo gasoline engine]	82	BG	- [With VR30 engine]
2 L		۸ 8	- [With VR30 engine and without BOSE system]	45	9	- [With VR30 engine]	82	9	- [With 2.0L turbo gasoline engine]
3 v		97 6	- [With 2.0L turbo gasoline engine]	46	SHIELD		98	×	- [With 2.0L turbo gasoline engine]
4 R		9 SHIELD	D - [With VR30 engine]	47	9		98	Μ	- [With VR30 engine]
5 GR -	-	10 V		48	BG		87	91	- [With VR30 engine]
- A 9	7	11 GR		49	ŋ		87	SHIELD	- [With 2.0L turbo gasoline engine]
7 1		12 Y		20	>		68	91	
		13 R		51	GR		90	Ь	- [With 2.0L turbo gasoline engine]
10 GR .		14 BG		52	Μ	- [With 2.0L turbo gasoline engine]	06	>	- [With VR30 engine]
11 8		15 BG	- [With 2.0L turbo gasoline engine]	52	>	- [With VR30 engine]	95	_	- [With 2.0L turbo gasoline engine]
12 W -	1	15 GR	- [With VR30 engine]	53	R		95	M	- [With VR30 engine]
13 G -		16 V		54	GR		93	æ	- [With VR30 engine]
14 BR -		17 P		22	٦		93	SHIELD	- [With 2.0L turbo gasoline engine]
15 P .	1	18		99	۸		94	R	
16 P -	7	19 R		22	×		92	7	- [With 2.0L turbo gasoline engine]
	2	20 GR		58	91		92	γ	- [With VR30 engine]
	2	21 R		59	Ь	-	96	В	- [With 2.0L turbo gasoline engine]
Connector No. B62	2	22 V		61	L		96	W	- [With VR30 engine]
Connector Name IV/IRE TO W/IRE	2	23 W	-	62	Ь	- [With VR30 engine]	97	L	- [With VR30 engine]
\prod	2	4 BG	- [With	62	>	- [With 2.0L turbo gasoline engine]	97	æ	- [With 2.0L turbo gasoline engine and with BOSE system]
Connector Type TH80FW-CS16-TM4	2	24 V	- [With VR30 engine]	63	L		6	W	- [With 2.0L turbo gasoline engine and without BOSE system]
¢	2	\dashv	- [With 2.0L turbo gasoline engine]	64	Α		86	16	
	2	25 SB	- [With VR30 engine]	99	ΓC		66	BR	 [With VR30 engine and with BOSE system]
10 12 12 12 12 12 12 12 12 12 12 12 12 12	2	26 6	- [With VR30 engine]	89	٦	-	66	Ь	 [With 2.0L turbo gasoline engine]
ala s	2	26 W	- [With 2.0L turbo gasoline engine]	69	Ь		66	Υ	 [With VR30 engine and without BOSE system]
	2	27 R		7.1	GR	- [With 2.0L turbo gasoline engine]	100	BR	- [With VR30 engine]
	2	29 LG		7.1	В	- [With VR30 engine]	100	W	- [With 2.0L turbo gasoline engine]
	æ	30 LG	- [With	72	9	- [With VR30 engine]			
	3	П	- [With VR30 engine]	72	٨	- [With 2.0L turbo gasoline engine]			
al	8	31 SHIELD		73	ď	- [With 2.0L turbo gasoline engine]			
	e e	32 L		73	SHIELD	- [With VR30 engine]			
1 BR - [With 2.0L turbo gasoline engine and without BOSE System]		33 B	- [With VR30 engine]	74	BG	- [With 2.0L turbo gasoline engine]			
1 LG - [With VR30 engine]	3	33 LG	- [With 2.0L turbo gasoline engine]	74	٦	- [With VR30 engine]			
1 With 2.0L turbo gasoline engine and with BOSE system		34 SHIELD		75	æ	- [With 2.0L turbo gasoline engine]			
٦				75	>	- [With VR30 engine]			
2 SHIELD - [With 2.0L turbo gasoline engine]	3	35 W	- [With 2.0L turbo gasoline engine]	76	GR	- [With VR30 engine]			

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< WIRING DIAGRAM > [INFINITI INTOUCH]

INFINITI INTOUCH (BOSE AUDIO WITH N	JAVIGAT) (NOI.	WITH NAVIGATION) (VR ENGINE)							
Connector No. B77	Connector No.	Vo. B116	116	Connec	Connector No.	8118	19	_	- [With 2.0L turbo gasoline engine]	
Connector Name SATELLITE SPEAKER RH	Connector Name		JOINT CONNECTOR-B06	Connec	Connector Name	JOINT CONNECTOR-B04	19	SHIELD	- [With VR30 engine]	
Connector Type TK02FBR	Connector Type	Γ	24342 4GA2A	Connec	Connector Type	24342 4GA2A	20	SHIELD	- [With VR30 engine]	
1	9]] [21	7	- [With 2.0L turbo gasoline engine]	
	F			F			21	SHIELD	- [With VR30 engine]	
	Š		το 1 4 6 6 0 7 0	Ę		6 t 6 c 7 c	22	~ (
			x ;		•	n ;	23	¥		
1 7			23 22 21 20			23 22 21 20	24	×		
							Connector No		130	
Torminal Color Of	Torminal	Color Of		Tormina	ol Color Of				27	
		Wire	Signal Name [Specification]	No.		Signal Name [Specification]	Connector Name		JOINT CONNECTOR-B02	
1 1 .	1	1		-1	97	- [With VR30 engine]	Connector Type	П	24342_4GA2A	
2 р	2	7		1	SHIELD	- [With 2.0L turbo gasoline engine]	ú			
	е	_		7	97	- [With VR30 engine]	E			
	4	1		7	SHIELD	- [With 2.0L turbo gasoline engine]	¥		6 5 4 3 2 1	
Connector No. B79	2	1			SHIELD		Ĉ.		12 11 10 9 8 7	
October Name DE AB MOOFED	9	1		4	91	- [With VR30 engine]			17 15 14	
.	7	В		4	SHIELD	- [With 2.0L turbo gasoline engine]			24 23 22 21 20 19	
Connector Type NS02FW-LC	00	œ	- [With Gateway]	2	91	- [With VR30 engine]				
	00	>	- [Without Gateway]	'n	SHIELD	- [With 2.0L turbo gasoline engine]				
	6	œ	- [With Gateway]	9	91	- [With VR30 engine]	Terminal	Color Of		
	6	>	- [Without Gateway]	9	SHIELD	- [With 2.0L turbo gasoline engine]	No.	Wire	ognal Name [opecification]	
2	10	~	- [With VR30 engine]	_	~	- [Color of wire differs depending on production]	1	~		
2 1	10	>	- [With 2.0L turbo gasoline engine]	7	>	- [Color of wire differs depending on production]	2	œ		
	11	>		∞	97	- [With 2.0L turbo gasoline engine]	8	-	- [With VR30 engine]	
	12	а.	- [With Gateway]	∞	œ	- [With VR30 engine and without paddle shift]	ю	œ	- [With 2.0L turbo gasoline engine]	
	12	~	- [Without Gateway]	∞	>	- [With VR30 engine and with paddle shift]	4	-	- [With VR30 engine]	
Terminal Color Of Signal Name (Specification)	13	SHIELD		6	91	- [With 2.0L turbo gasoline engine]	4	æ	- [With 2.0L turbo gasoline engine]	
No. Wire Signal Name [Specification]	14	SHIELD		6	æ	- [With VR30 engine and without paddle shift]	S	-		
1 R	15	-8	- [With 2.0L turbo gasoline engine]	6	>	- [With VR30 engine and with paddle shift]	9	_		
2 1 -	15	SHIELD	- [With VR30 engine]	10	91	- [With 2.0L turbo gasoline engine]	7	7		
	16	1	- [With VR30 engine]	10	SHIELD	- [With VR30 engine]	00	٦		
	16	SHIELD	- [With 2.0L turbo gasoline engine]	11	97	- [With 2.0L turbo gasoline engine]	6	7	- [With 2.0L turbo gasoline engine]	
	17	1	- [With VR30 engine]	11	SHIELD	- [With VR30 engine]	6	ж	- [With VR30 engine]	
	17	SHIELD	- [With 2.0L turbo gasoline engine]	12	FIG.	- [With 2.0L turbo gasoline engine]	10	٦.	- [With 2.0L turbo gasoline engine]	
	18	٦	- [With VR30 engine]	12	SHIELD	- [With VR30 engine]	10	æ	- [With VR30 engine]	
	18	SHIELD	- [With 2.0L turbo gasoline engine]	13	7	- [With VR30 engine]	11	ď		
	19	1	- [With 2.0L turbo gasoline engine]	13	Ь	- [With 2.0L turbo gasoline engine and without gateway]	12	Я		
	19	SHIELD	- [With VR30 engine]	13	~	- [With 2.0L turbo gasoline engine and with gateway]	13	>		
	20	٦	- [With 2.0L turbo gasoline engine]	14	_	- [With VR30 engine]	14	8		
	20	SHIELD	- [With VR30 engine]	14	۵	- [With 2.0L turbo gasoline engine and without gateway]	15	>		
	21	-		14	œ	- [With 2.0L turbo gasoline engine and with gateway]	17	SHIELD		
	22	Ь		15	٦	- [With VR30 engine]	18	В		
	23	Ь		15	ď	- [With 2.0L turbo gasoline engine]	19	В	- [With 2.0L turbo gasoline engine]	
	24	Ь	- [With VR30 engine]	16	٦		19	GR	- [With VR30 engine]	
	24	>	- [With 2.0L turbo gasoline engine]	17	_		20	GR	- [With VR30 engine]	
				18	_		H	SHIELD	- [With 2.0L turbo gasoline engine]	

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< WIRING DIAGRAM > [INFINITI INTOUCH]

Connector No D11	Т	Connector Name FRONT DOOR SQUAWKER LH	Connector Tune	CONTINUE IN TABLE	4					2 1						e E	No. Wire	t	. Bo	2 γ				Connector No. D18		Connector Name WIRE TO WIRE	T	Connector Type NH60FW-1S1Z					8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	[2] [2] [2] [3] [3] [3] [3] [3] [3] [3] [3] [3] [3					Terminal Color Of Simpl Name (Specification)	No. Wire olgilal Name (Specification)	1 GR	2 b	$^{\perp}$	4 SB .	5 BR -	. д	9	27	8 W	- 1 6	10	$^{+}$	11 GR	13	14 R	+	+	-	18 W	90	+	20 G	t	Z1 SHIELD -	
35 88	+	+	+		29 B	30 W	: 6	+	32 Y	33 BR	+	34 L	35 R		+	9	40 LG - [Color of wire differs depending on production]	,	40 P - [color of Wire differs depending on production]	41 L	A3 BG	2	_	46 W	47 R	: 6	+	+	52 v	65	+	5	-	. S6 BR -	57 R	-	4 3	+	- 9 09	61 BG -	, , , , ,		3	64 B	65 Y	- BR	,	-		70 W	ŀ	+													
NAVIGATION) (VR ENGINE)		2 2	SHIELD	TT FG - [With VR3U engine]	SHIELD	13 86	$^{+}$	DG.	15 BG .	17 16	+	18 16	H		4			N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T		Connector Name WIKE U WIKE	T	Connector Type NH6UFW-TSTZ											Terminal Color Of Circus Nama (Consideration)	No. Wire	t	+	+	5 R	^ 9	7 1.6	· ·	> 6	. 25	10 Y	11 SHIELD .	t	26	13 L .	14 B .	>	+	_	17 R		ł	+	-	21 16	, C	. M 77	23 1	ł	24 6	
NITI INTOUCH (BOSE AUDIO WITH	+	Y CK	. W 27	+	4			1	Connector No. B123	Г	Connector Name JOINT CONNECTOR-801		Connector Type TK04FW-J	1	Q	APATA APATA			8 4 3 2 1						Terminal Color Of	Signal Name [Specification]	WIE CONTRACTOR	1 SHIELD -		T	a Dina	SHIELD	4 B			Connector No B127	T	Connector Name JOINT CONNECTOR-803		Connector Type NH20FG-DC					987654321	20 19 18 17 15 14 13 11 10	5.1.5.				Terminal Color Of	Signal Name [Specification]	Wire	- 8	2 SHIELD -		1	4 SHIELD -	S SHIELD -	t		7 P	ł	- d. 80	

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INFINITI INTOUCH (BOSE AUDIO WITH NAVIGATION) (VR ENGINE)	H NAVIGATION) (VR ENGINE)			
22 GR -	Connector No.	D31	Connector No.	D40	Connector No. D49
23 BG .	1	TOTAL OF TOTAL		TOWN OF TOWN	
H	Connector Name		Collinector Ivallie	WIRE IO WINE	CONTRECTOR NATIVE FROM LOOK WOOFER LT
25 BR -	Connector Type	NH10MW-CS10	Connector Type	NH10MW-CS10	Connector Type NS02FW-LC
26 V -			ı		
27 6 -	13		13		
28 V	¥	1 2 3	· ·	4 5 6	
29 Y -	2	,	2	, 	
30 R		9 10 11 12 13		9 10 11 12 13	2 1
49 LG .		14 15 16 17 18 19 20		8 14 15 16 17 18 19 20	
52 P					
. 1 55					
- × 95	Terminal Color Of	Simpl Name Consideration	Terminal Color Of	[mojtos@joses N Joses S	Terminal Color Of Signal Name (Succition)
S7 R -	No. Wire		No. Wire	olgilal Nallie (opecilication)	No. Wire ognering Specification
	1 BR		1 BR		1 γ
S9 R	2 Y		2 Y	•	2 L
. 9 09	3		3 M		
63 B -	۷ ۷		۷ /		
	7 B		7 B		Connector No. D50
. BR -	19 P	- [With BOSE system]	19 P	- [With BOSE system]	
	19 R	- [Without BOSE system]	19 R	- [Without BOSE system]	CONTRECTOR NATIVE INVESTIGN LT
- M 69	20 BR	- [With BOSE system]	20 BR	- [With BOSE system]	Connector Type TK02FBR
- T 0/2	20 L	- [Without BOSE system]	20 L	- [Without BOSE system]	
71 BG -					
72 Y -					
	Connector No.	D39	Connector No.	D48	2
	Connector Name	PEAR DOOR CREAKER I	Connector Name	DEAD DOOD SDEAKED BH	2 1
Connector No. D23	Connector Name	KEAR DOOK SPEAKER LH	Connector Name	KEAK DOOK SPEAKEK KH	
Connector Name FRONT DOOR SQUAWKER RH	Connector Type	NS02FW-CS	Connector Type	NS02FW-CS	
Connector Type TK07588	1		Œ		Terminal Color Of
1	李		至		No Mire Signal Name [Specification]
	H.S.		H.S.		╁
H.S.		2 1		2 1	2 4
	Terminal Color Of No. Wire	Signal Name [Specification]	Terminal Color Of No. Wire	Signal Name (Specification)	
lal	1 P	- [With BOSE system]	1 P	- [With BOSE system]	
No. Wire	4	- [Without BOSE system]	1 R	- [Without BOSE system]	
	2 BR	- [With BOSE system]	2 BR	- [With BOSE system]	
2 BG -	2 L	- [Without BOSE system]	2 L	- [Without BOSE system]	

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< WIRING DIAGRAM > [INFINITI INTOUCH]

33 R	43 Y	
5 GR	1	
AVIGATION) (VR ENGINE) Connector No. D58 Connector Name JOINT CONNECTOR-D01 Connector Type NSD6FW-J (6 5 4 3 2 1	Number Color Of Signal Name Specification Number Numbe	
INFINITI INTOUCH (BOSE AUDIO WITH NAVIGATION) (VR ENGINE) Connector Name FRONT DOOR WOOFER RH Connector Type NSO2FW-LC Terminal Color Of Signal Name (Specification) 1 W S. Whree 2 L Connector No. DS2 Connector Type TX02FBR Terminal Color Of Signal Name (Specification) 1 Y Signal Name (Specification) 2 BG Terminal Color Of Signal Name (Specification)		

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Connector No. E72 Connector Name JOINT CONNECTORED. Connector Type SGASFIER- LONG CONNECTORED. CONNECTOR TYPE SGASFIER- LONG CONNECTORED. CONNECTOR TYPE SGASFIER- LONG CONNECTORED. CONNECTOR TYPE SGASFIER- LONG CONNECTORED. CONNECTOR TYPE SGASFIER- LONG CONNECTOR TYPE S	No. Signal Name Specification No. Wire Signal Name Specification 2		++++	98 S 8 S 8 S 8 S 8 S 8 S 8 S 8 S 8 S 8 S	24 IG (Color of wire differs depending on production) 25 P P (Color of wire differs depending on production) 26 I P 27 Y 28 R 1	
E152 ECM RH24FB-RZ8-L-RH TT T	Signal Name [Specification] FUEL TANK PRESSURE SENSOR CAN-H SENSOR POWER SUPPLY THE TANK PRESSURE SENSOR)	FUEL TANK TEMPERATURE SENSOR FUEL PUMP CONTROL MODULE (FPCM) CHECK IGNITION SWITCH ASCD STEERING SWITCH	SENSOR GROUND IASCO STEERING SWITCH] EVEL IN NOW CONTROL MODILE (FRCM) EVENINE COMMUNICATION LINE-I ENGINE COMMUNICATION LINE-I STATE OF LAMP SWITCH BRAKE PEDA, POSITION SWITCH	THE CONTRIBUTION OF THE CO	SENSOR GROUND ECM GROUND ACCELERATOR FEDA, POSSTRON SENSOR 1 SENSOR GROUND ECM GROUND	
Connector No. Connector Name Connector Type	Terminal Color Of Wire 173 SB 175 P 176 L 177 G 177 G 177 C	180 P 182 W 185 SB 186 SB	+++++	++++++	200 V 201 B 202 Y 203 G 203 G	
DWITH NAVIGATION) (VR ENGINE) Connector Name WIRE TO WIRE	Signal Name (Specification) (Color of wire differs depending on production) (Color of wire differs depending on production)	- [Color of wir	+++++	Q.		
Connector No. Connector Name Connector Type H.S.	Color Of	5 W 8 6 SB 7 BR	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	5	++++	26 BG 27 LG 28 BR 29 W 30 Y 31 G 32 GR
NFINITI INTOUCH (BOSE AUDIO WITH NAVI 12 8/W GROUND With 2.01 turbo gasoline engine 19 8R CHASSIS COMMA-HIWRH VR3D engine 19 1 CHASSIS COMMA-HIWR VR3D engine 23 6 ESS RELAY With 1.01 turbo gasoline engine 23 R ESS RELAY With 2.01 turbo gasoline engine Connictor No. (35 Charles	Tem 2 25 17 18 19 10 18 3 4 4 1 1 5 7 8 9 10 18 3 3	Signal Name [Specification]	h VR30 engine] urbo gasoline engine] TTERY TYERY AL (WINH ADAS) AL (WINH ASCD) SORS SIGNAL		h vR30 engine] NAL SUPPLY UPPLY	VDC OFF SW SIGNAL 2 2 2 2 2 2 2 2 2
Z × × V V W		Mire B	9 9 7 7 5 > 8	GR BR BR C GR PR	N S S N N N N N N N N N N N N N N N N N	SHIELD G
INFINITION 12 8 19 19 19 19 19 19 19	優 H.S.	Terminal No. 1	1 E E 4 S 5 L	8 8 8 110 10 10 112 113 113 114 115 115 115 115 115 115 115 115 115	18 20 22 28 28	32 32 33

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< WIRING DIAGRAM > [INFINITI INTOUCH]

Connector No. F100	
110 B66 111 R R 131 LG 131 LG 131 LG 132 LG 135 LG 136 LG 23 GR 23 GR 23 GR 23 GR 23 GR 23 GR 24 S8 25 V 26 S9 38 P R 31 P R 31 P R 31 P R 32 R R 34 B66 35 LG 36 CR 37 V 38 P R 39 P CR 39 CR 40 SHELD 41 LG 42 R 43 V 44 CR 45 R 46 P 47 R 48 CR 49 B66 50 SHELD 51 W 52 V 53 SHELD 54 SHELD 55 SHELD 56 SHELD 57 V 58 SHELD 58 SHELD 59 SHELD 50 SHELD 50 SHELD 51 W	
Connector Name AT ASSEMBLY	
INFINITI INTOUCH (BOSE AUDIO WITH MAYIGATION) (VR ENGINE) Connector No. FAZES CONTROL MODULE Connector Name ATTASSEMBLY	
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41	42	43	44	46	20	51	25	23	54	22	57	28	99	61	62	63	64	99	70	7.1	72	73	74	7.5	77	78	79	62	81	82	83	84	82	00 00	68	68	91	94	96	- 26	86	86				
M19	TOWN OF TOWN	WIRE IO WIRE	TH80MW-CS16-TM4			8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		8 G 8 8 G 8 8 G 8 8 G 8				Signal Name [Specification]																				- [With 2.0L turbo gasoline engine]	[With VR30 engine]	- [with 2.0c turbo gasoline engine] - [With VR30 ongine]	[high con mail											
Connector No.		ector Name	Connector Type		_	٤	ā				- 1	Terminal Color Of	+		3 SB	4 BR	5 Y	6 R	+	\dashv	\dashv	+	+	13 GR	+	16 V	18 W	19 BR	Н		+	+	+	7 55 W	╁	╀	╀	╀	+	╀	34 V	35 P	_	+	38 [6	
O WITH NAVIGATION) (VR ENGINE) Comector No. M14 Com	THE CONTROL OF THE CO	BCM (BODY CONTROL MODULE)	Connector Type TH40FB-NH Con		(B)		80 88 88 88 88	18 12 12 12 12 12 12 13 18 18 18 18 18 18 18 18 18 18 18 18 18				Terminal Color Of Signal Name [Specification] Tel	B PUSH-BTN IGN SW ILL PWR	: 9	>	55 R RAIN SENSOR	l b	1	G REAR	œ	>	В	9	66 Y BLOWER FAN RLY CONT [With 2.01 turbo gasoline engine]	2/2	69 GR A/T SHIFT SELECT PWR SPLY	В	71 G DR DOOR REQ SW	SB	BR	BG	>	> !	%0 I TRIID OBNB SW		1		1	<u> </u>	1						
INFINITI INTOUCH (BOSE AUDIO WITH N	W	BR	20 LG AIR BAG INDICATOR OFF SIGNAL			Connector No. M2	Connector Name INTEGRAL SWITCH	П	Connector Type Tyco_1554987-6	á		E	27 28	g			al (Wire	W	В	29 SHIELD SHIELD		-	Т	Connector Name INTEGRAL SWITCH	Connector Type TH12FW-NH]			30 31 32 33 34	38 37 38 39 40 41	25 20 10		Terminal Color Of		30	×	R	R PUS	*	۸ اللات	W	9	B PUSH SI	40 B SHIELD	1

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[INFINITI INTOUCH] < WIRING DIAGRAM >

With 201 turbo gasoline engine 5	3	SB	- [With VR30 engine]	99	~		66	d :	- [With 2.0L turbo gasoline engine]
100 With the continue engine 71 R With 201 turbo gasoline engine 72 R With 201 turbo gasoline engine 73 SHIELD With 201 turbo gasoline engine 74 L With W130 engine engine 75 SHIELD With W130 engine engine 75 SHIELD With W130 engine engine 76 With W130 engine engine 76 With 201 turbo gasoline engine 76 SHIELD With W130 engine engine 76 With W130 engine e	56	0	- [With VR30 engine]	89	_	•	66	> 3	- [With VR30 engine and without BOSE system
1	26	> ∘	- [With 2.0L turbo gasoline engine]	69	م او	Mith 3 Ol strangers and Inc.	100	BR ×	- [With VR30 engine]
172 G 1, With 20, Lurbo gasoline engine	29	- 2		71	5 ~	- [with Z.OL turbo gasonine engine] - [With VR30 engine]	TOO	^	- [with 2.0t tubo gasonine engine
13 16 19 19 19 19 19 19 19	30	SB	- [With VR30 engine]	72	9	- [With VR30 engine]			
13 116 14 14 15 15	30	W	- [With 2.0L turbo gasoline engine]	72	>	- [With 2.0L turbo gasoline engine]	Connecto	r No.	M24
13 SHEID 1/With V30 engine 74 LG - With 2.01 turbo gasoline engine 74 LG - With 2.01 turbo gasoline engine 75 S9 - With 2.01 turbo gasoline engine 76 V - With 2.01 turbo gasoline engine 77 V - With 2.01 turbo gasoline engine 77 V - With V30 engine engine 77 V - With V30 engine engine 80 W - With V30 engine engine 80 W - With V30 engine engine 80 W - With V30 engine engine S8 SHEID - With V30 engine engine S9 W - With V30 engin	+	SHIELD		73	91	 [With 2.0L turbo gasoline engine] 	Connecto	r Name	CAN GATEWAY
- With 7.01 turbo gasoline engine 74	32	-[2	SHIELD	- [With VR30 engine]			
175 174	33	<u>ء</u>	- [With VR30 engine]	74	_	- [With VR30 engine]	Connecto	r Type	TH12FW-NH
With VR30 engine 76	+	9 1	- [With 2.0L turbo gasoline engine]	/4	<u>ء</u> و	- [With 2.0L turbo gasoline engine]	ą[
Thirty N30 engine Thirty N30 engine engine Thirty N30 engine	+	SHIELD	Control orders (1999)	0 1	7 5		至		
With N30 engine 76	32	P :	- [With VR30 engine]	9/	SB	- [With 2.0L turbo gasoline engine]	S II		1
With VR30 engine 77	32	>	- [With 2.0L turbo gasoline engine]	76	>	- [With VR30 engine]			1 3 4 5 6
With 2.01 turbo gasoline engine 378	36	ď	- [With VR30 engine]	77	>				7 9 10 11 12
Terminal Color Off	36	>	- [With 2:0L turbo gasoline engine]	78	_	4			
With VR30 engine and with BOSE system 28.1 B	$^{+}$	~ :	- [With VR30 engine]	79	σ ;				
With VR30 engine and with BOSE system 28.1 R	+	>	 [With 2.0L turbo gasoline engine] 	8	5	 [With 2.0L turbo gasoline engine] 			-
With VR30 engine and with BOSE system 8.1	+	× 4	Court Apple	80	» «	- [With VR30 engine]	Terminal		Signal Name [Specification]
1	+	.[[with was engine and without boat system]	0	۰	- [with was engine]	ÖN.	A .	
S	+	× >	- [With 2.0L turbo gasoline engine] - [With VR30 engine and with ROSF system]	8 8	∝ e	- [With 2.0L turbo gasoline engine] - [With 2.0L turbo gasoline engine]		- ≥	CAN-H (CAN COMMUNICATION CIRCI
S	$^{+}$			6	CHILLIA	- [Mith VB20 contino]		-	CAN-H CAN CONGRAINICATION CIPCING
10 10 10 10 10 10 10 10	+	-		8 8	2	- [With 2 OI turbo gasoline angine]	, ,	- a	GROLIND
State SR -	+	2		8	>	- [With VR30 engine]	9	-	CAN-H (CAN COMMUNICATION CIRCUIT 2)
Signature Sign	۳	SHIELD		88	æ	- [With VR30 engine]	_	۵	CAN-L (CAN COMMUNICATION CIRCUIT 1
With 2 Ot turbo gasoline engine	⊢	۵		84	SHIELD	- [With 2.0L turbo gasoline engine]	6	œ	IGNITION POWER SUPPLY [With VR30 engine and without ISS]
10	Н	В	- [With 2.0L turbo gasoline engine]	85	BR	- [With VR30 engine]	6	Μ	IGNITION POWER SUPPLY [Except with VR3D engine and without ISS]
11 8 1 1 8 1 1 8 1 1	Н	6	- [With VR30 engine]	82	9	- [With 2.0L turbo gasoline engine]	10	æ	CAN-L (CAN COMMUNICATION CIRCUIT 2)
Signature Color of the gradient Signature Sign	46	SHIELD		98	Ж	- [With 2.0L turbo gasoline engine]	11	8	GROUND
1	47	9		86	>	- [With VR30 engine]	12	æ	CAN-L (CAN COMMUNICATION CIRCUIT 2)
ST SHEED - With 2.0 turbo gasoline engine Connector No. M25	48	BG	- [Except with VR30 engine and with BOSE system]	87	2	- [With VR30 engine]			
10	48	BR	- [With VR30 engine and with BOSE system]	87	SHIELD	 [With 2.0L turbo gasoline engine] 			-
10 10 10 10 10 10 10 10	49	9		89	æ	- [With VR30 engine]	Connecto	r No.	M25
90 S8 -[With 2.0 turbo gasoline engine] 100	20	>		89	9]	 [With 2.0L turbo gasoline engine] 	Connecto	r Name	DATA LINK CONNECTOR
29	51	>		06	SB	 [With 2.0L turbo gasoline engine] 			
1	25	-]	- [With 2.0L turbo gasoline engine]	90	>	- [With VR30 engine]	Connecto	r Type	BD16FW
10	25	>	- [With VR30 engine]	95	_	 [With 2.0L turbo gasoline engine] 	ą		
10 10 10 10 10 10 10 10	23	~		92	≥	- [With VR30 engine]	臣		
10 10 10 10 10 10 10 10	54	GR		93	~	- [With VR30 engine]	M C		1 1 10 10 10 1
94 R -	55	٦		93	SHIELD	- [With 2.0L turbo gasoline engine]	115		/
55	99	Ь		94	~				345678
25 Y	57	×		95	٦	- [With 2.0L turbo gasoline engine]			11
96 R - (With Z.O.L turbo gazoline engine) Terminal Color of No. 97 L - (With Z.O.L turbo gazoline engine) 3 LG 97 R - (With Z.O.L turbo gazoline engine) 3 LG 98 BR - (With Z.O.L turbo gazoline engine) 4 B	28	FIG		95	٨	- [With VR30 engine]			
96 W - [With VR30 engine] Terminal Color Of Terminal 97 L - [With VR30 engine] No. Wire 97 R - [With Z.01 turbo gasoline engine] 3 LG 1 98 RR - [With Z.01 turbo gasoline engine] 4 B B	59	SB		96	æ	 [With 2.0L turbo gasoline engine] 			
97 L - (With VR30 engine) No. Wire 97 R - (With 2.01 turbo gasoline engine) 3 LG 98 RR + R B	61	1		96	Μ	- [With VR30 engine]	Terminal	-	f Signal Name (Specification)
97 R - [W/th 2.0L turbo gasoline engine] 3 98 BR 4	62	Ь	- [With 2.0L turbo gasoline engine]	97	_	- [With VR30 engine]	No.	Wire	
BR - 4	62	>	- [With VR30 engine]	97	۳	 [With 2.0L turbo gasoline engine] 	m	9	M_CAN_L
	63	٦		86	BR		4	α	EARTH

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M34	H	. 9 85	ı cc	63 B ·	\dashv	65 BR	۸ 99	- BR 69 BR	\dashv		72 W -			Т	Connector Name WIRE TO WIRE	Connector Type TH32FW-NH	1			1.3.	32 31 30 29 28 27 26 25 24 23 22 21 201 191 181			-	<u>_</u>	No. Wire	200	\vdash	4 P - [Without Gateway]	4 R - [With Gateway]	5 BR -	. 88 9	+	M	-	9 V - [With BOSE system]	\dashv	\dashv	12 6 .	13 6 -	Н	16 SB -	S		
NTOUCH (BOSE AUDIO WITH NAVIGATION) (VR ENGINE) Connector	M34	WIRE TO WIRE	NH60MW-TS12									Signal Name (Specification			COMPLET OF THE PORT OF THE POR	- [Without DRPO]						•						,	- [With DRPO]	- [Without DRPO]			- [Without DRPO]	- [With DRPO]	1		- [Without DRPO]	- [With DRPO]			- [Without DRPO]	- [With DRPO]			
MAVIGATION (VR ENGINE) MAVIGATION (VR ENGINE) Maximum	nnector No.	nnector Name	nnector Type		[*	S							+	+	+	ł	\vdash			H	H	Н	\dashv	+	+	+	╀	╀	H	L	П	\dashv	+	\dashv	+	\dashv	\dashv	Н	Н	Н	Н	Н	30 L	49 P	1
MYTOUCH (BOSE AUDIO CONH KUNE With 201 turbo gasoline en IKUNE WITH 201 turbo gasoline en IKUNE WITH 201 turbo gasoline en INTAR CONH CONN H CONN	UN) (VK EINGIINE) - (With DRPO)								3R	- 9-			- d	+	+	ŀ	3R			8	3R			. 9-		~ .							38												
MYTOUCH (BOSE AUDIO CON-H KLINE (With 201 turbo gasoline or RUME WITH 201 turbo gasoline or INJUNE WITH AURION OR MA CAN H CON-H	25	+	H		+	+	+	4	\dashv	Н	Н	\dashv	+	+	+	+	╀	┝	H	H	H	H	\dashv	+	+	+	+	╀		L	H	\dashv	\dashv	+	+	\dashv	\dashv	\dashv							
		KLINE [With 2.0L turbo gasoline engine] KLINE [With VR30 engine]	IGN_SW	M_CAN_H	CAN-L	CAN-H	CAN-L	POWER			VI33	VIBE TO WIRE		NH60MW-1512								Signal Name [Specification]																	- [With DRPO]	- [Without DRPO]			- [Without DRPO]	- [With DRPO]	factor action (a)
AFI A	<u> </u>	_	t	Н	1	†	†	1			Í		П									or Of	<u>e</u>	>	<u></u>	5 0		18	GR.	>	ELD	۵	<u></u>	9	>	>	۵	8/ _N	9	,		_	و	-	,

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< WIRING DIAGRAM > [INFINITI INTOUCH]

17 8 GND G	
Connector No. MSS Connector Name COMBINATION METER Connector Name COMBINATION METER Connector Type TH12FW-NH	
Connector No. Missamment Consideration Macricol	
NFINITI INTOUCH (BOSE AUDIO WITH 123	

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INFINITI INTOUCH (BOSE AUDIO WITH I	O WITH NAVIGATION) (VR ENGINE)	Connector No. M97	Connector No. M99	Г
a	ne	e e	e e	l
Connector Type Tyco_1554987-5	Connector Type NS16MW-CS	Connector Type MS02FL-M2-LC	Connector Type Tyco_1554987-4	П
4.5 4.3 4.3	H.S. 1 2 3 — 4 5 6 7 8 9 10 1112 13 14 15 16	H3.	#8. 8 6 7 10 10 10 10 10 10 10 10 10 10 10 10 10	
al Color Of Sign	Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name (Specification)	nal Color Of Sign	П
39 G USB UND 40 W USB V BUS SIGNAL	2 BR -	2 SB - [With 2.0L turbo gasoline engine]	7 W USB V BUS SIGNAL	T
~	Н	Н	~	П
42 L USB D+ SIGNAL 43 SHIELD SHIELD	5 GR		10 SHIELD SHIELD	Τ
-	Н		-	1
Connector No. M87	- d 6	Connector No. M98	Connector No. M100	П
Connector Name COMBINATION SWITCH (SPIRAL CABLE)	10 GR .	Connector Name DISPLAY CONTROL UNIT	Connector Name DISPLAY CONTROL UNIT	
Connector Type TK08FGY-1V	t	Connector Type Tyco_1554987-5	Connector Type TH24FW-NH	Τ
₫.	13 6	₫.	Į.	1
THAT .	14 BK 1	₩.		
25 24 31 32	16 LG .	2 -	1.3.	∾
		2 2		ᡨ
	Connector No. M96			
Terminal Color Of	Connector Name CENTER SQUAWKER	Terminal Color Of	Terminal Color Of	Γ
No. Wire Signal Name [Specification]	Connector Type TK02FBR	No. Wire Signal Name (Specification)	No. Wire Signal Name [Specification]	
+	q ₁		LG AV	T
31 W/8 -	Addition	2 W USB V BUS SIGNAL 3 R USB D-SIGNAL	19 R DIMMER SIGNAL	Т
32 ү		4 L USB D+ SIGNAL	20 BR REVERSE SIGNAL	l
33 B -	2 1	5 SHIELD SHIELD	22 B GND	
			BR CAM	
			SB AV	1
	Terminal Color Of		29 L CAN-H	Τ
	No. Wire Signal Name [Specification]		**	Τ
	1 BR .		R	П
	2 GR -		SB AO	
			33 V ACC [For VR30 engine and with ISS] 34 Y BAT	\Box

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< WIRING DIAGRAM > [INFINITI INTOUCH]

Connector Name DISPLAY CONNECTOR NAME DI	M302 OSPIAN CONTROL UNIT Tyco _1554087-3 Tyco _1554087-3 Tyco _1554087-3	Connector Name DISPLAY CONTROL UNIT Connector Type Tyco_1554987-6	Connector wo. M113 Connector Name FRONT SQUAWKER LH Connector Type TX02FBR TX15 TX15
TH40PW-NH Connector Name Display(DISPLAY CONTROL	FRONT SQUAWKER TK02FBR
THAOFW-NH		Tyco_1554987-6	TK02FBR
A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	্ হ	ν <u>ί</u>
Color Of Signal Name (Specification) No. Write		94	[12]
16 COMPOSITE MAGE SIGNAL (.) 77 W NEED	Signal Name [Specification]	Ferminal Color Of Signal Name (Specification) No. Wire	Terminal Color Of Signal Name [Specification] No. Wire
SHEED	(+) TADS (+)	t	t
SOUND SIGNAL (H) SOUND SIGNAL (H)	(-) FLADS (-)	8	2 V .
SHEED SOUND SIGNAL IH 1-1	SHIELD	94 SHIELD SHIELD	
1 SOUND SIGNAL (H !) Connector No. M103			Connector No. M132
SHELD		Connector No. M112	Connector Name FUSE BLOCK (J/B)
SHELD SHELD SHELD	DISPLAY CONTROL UNIT	Connector Name FRONT SQUAWKER RH	Т
B VOICE GUIDANCE SIGNAL, INPUT ()	Tvco 1554987-1	Connector Type TK02FBR	COINTECTOR INSTANTANTO
W MCROPHONE SIGNAL SHELD		1	
NUTROPHONE SIGNAL GND			
SHIELD	8081	<u></u>	58 4B
SHEED	2000		168 138 138 138 138
SHIELD	884		
BR COMPOSTE MAGE SIGNAL (+) Terminal Color Of Moderal Makes Signal, No. Wire Color Signal, No. No. Wire Color Signal, No. No			
B CAMREM IMAGES SIGNAL Terminal Color Of			lar
W SOUND SIGNAL (+) RO	Signal Name [Specification]	Terminal Color Of Signal Name (Specification)	Wire
R SOUND SIGNAL RH (+) 81	INSB GROUND	$^{+}$	138 P
SHELD SHELD 82	USB V BUS SIGNAL		148 G
V SOUND SIGNAL LH (+) 83 84 84 84 84 84 84 84	USB D- SIGNAL	-	15B Y -
SHIELD SHIELD SHIPM OF SIGNAL (*7)	USB D+ SIGNAL		168 Y
e	2		É
,			58 R
W VOICE GUIDA			. Y 86
SHIELD			
9			
+			
× .			
_			
74 R CAMERA POWER SUPPLY			

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INFI	NITIN	INFINITI INTOUCH (BOSE AUDIO WITH	NAVIG.	ATION	WITH NAVIGATION) (VR ENGINE)						
Connec	Connector No.	M133	99	Н		Connector No.	M137	lar	Color Of	Signal Name (Specification)	
Connec	Connector Name	FUSE BLOCK (J/B)	2 %	0 0		Connector Name	JOINT CONNECTOR-M10	No.	Wire	SIGNAL	
Connec	Connector Type	TH40FW-NH	9	╀		Connector Type	24342 4GA2A	2	. >	USB V BUS SIGNAL	
								m	. ~	USB D- SIGNAL	
E	_					13		4	9	USB GND	
Ę			Connector No.	or No.	M135	Ě	5 4 3 2 1	7	9	USB GND	
2	9	N	Connect	Connector Name	OINT CONNECTOR-MO9	Ĉ	в 6	8	Я	USB D- SIGNAL	
		(un) sec (sec) (se					_	6	*	USB V BUS SIGNAL	
			Connec	Connector Type	24342_4GA2A		N N	1	7	USB D+ SIGNAL	
			Œ					11 S	SHIELD	SHIELD	
Terminal	1-	Of Signal Name (Specification)	E		6 5 4 3 2 1	lei	Signal Name [Specification]				
No.	Wire		1	9	11 10 9	No. Wire		Connector No.	 M143 	3	
10C	>				7 16 15	1 8		Connector Name		EXTERNAL DATA INPUT BOX	
120	-				24 23 22 21 20 19	2 B	•		Т		
13C	-					3 B		Connector Type		TH12FW-NH	
14C	4					+		ą			
15C	4		Terminal	<u> </u>	Signal Name [Specification]	5 B		身			
16C	œ		No.	Wire		7 B		۳		/ /	
17C			П	8		8 8		5		12 13 14 16 17	
18C	BG	•	2	8		9 B				000	
18C	Ь	- [With DRPO]	3	В		10 B					
19C	В		4	В		11 B					
1C			2	В		13 L					
20C	W		9	В		14 L		Terminal	Color Of	Cinnal Nama [Concilionation]	
21C	7	•	6	91		15 L	•	No.	Wire	oglidi Name [Specification]	
22C	٦		10	PT PT		16 L		12	W	AUX SOUND SIGNAL LH	
23C	٦	-	11	ΓG		19 R		13	В	AUX_AUDIO-	
25C	16		13	В	- [With VR30 engine]	20 R		14	8	AUX SOUND SIGNAL RH	
26C			13	SB	- [With 2.0L turbo gasoline engine]	21 R		16	В	GND	
27C	Ь		14	В	- [With VR30 engine]	22 R		17	٨.	BAT	
28C	W		14	SB	- [With 2.0L turbo gasoline engine]			20	٦	AUX IMAGE SIGNAL (+)	
29C	W		15	В	- [With VR30 engine]			21	Н	AUX IMAGE SIGNAL (-)	
2C	æ		15	SB	- [With 2.0L turbo gasoline engine]	Connector No.	M142	22	SB ACC	ACC [Except with VR30 engine and with ISS]	
30C	Н		16	SB	- [With 2.0L turbo gasoline engine]	Connector Name	EXTERNAL DATA INPLIT BOX	22	^	ACC [With VR30 engine and with ISS]	
31C	4		16	>	- [With VR30 engine]						
32C	4		17	88	- [With 2.0L turbo gasoline engine]	Connector Type	GT17VS-10DS-HU				
330	4	- [With VR30 engine]	17	>	- [With VR30 engine]	q					
330	+	- [With 2.0L turbo gasoline engine]	18	SB	- [With 2.0L turbo gasoline engine]	B	4				
34C	4		18	>	- [With VR30 engine]	ě	12				
35C	SB		19	SHIELD		21	8				
36C	4		20	œ			C P				
37C	4		21	œ			0 10				
38C	SB	,	22	SHIELD			-				
39C	>		23	_							
30			24	٦							
40C	Ц										
4C											
SC	Ш										

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< WIRING DIAGRAM > [INFINITI INTOUCH]

13 7 84T
Connector No. M164 Connector Name AV CONT Connector Type TH40FW Connector Th40FW C
Connector No. M164
H\$.
Color Of Wire LG L R BR
L L BR
BR
LG COMPOSIT
40 SHIELD SHIELD 42 SB AV COMM (H)
V AUX
SHIELD SHIELD
Connector No. M165
9 AV CONTROL UNIT
Connector Type
Si salah
01 02 03 00 00 00 00 00 00 00 00 00 00 00 00
SOUND SIGNAL FRONT LH (+) SOUND SIGNAL FRONT LH (-) SOUND SIGNAL FRONT LH (-)
Terminal Color Of
ith ISS] No.
ISS] 61 V SOUND SIGNAL LH (+)
62 R
63 SHIELD
65 SHIELD
99 M
29
1 2 3 4 5 7 8 9 1 1 2 3 4 5 7 8 9 1 1 2 3 4 5 7 8 9 1 3 4 5 7 8 9 1 3 4 5 7 8 9 1 3 4 5 7 8 9 3 3 4 5 7 8 9 3 3 4 5 7 8 9 3 3 3 3 3 3 3 3 3

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LG - (With 2.0L turbo gasoline engine)		- [With	BR - [With VR30 engine]	LG - [With 2.0L turbo gasoline engine]	R - [With 2.0L turbo gasoline engine]	SB - [With VR30 engine and without ISS]	V - [With VR30 engine and with ISS]	R - [With 2.0L turbo gasoline engine]	SB - [With VR30 engine and without ISS]	+	cp [Mith VP20 paging and mithor 199]	+	,	pr No. M174	9		or Iype 24342_4GA2A		5 4 3	18 17 16 15 14 13	23 22 21 20		Color Of			- 1			-	γ .	×					BS			SB	88	SB	. 91
19	20	50	21	21	22	22	22	23	23	23	54	24		Connector No.	Connecto		Connector Type	Œ	N H				Termina	No.	1	2	m =	. 2	9	7	∞	6	10	11	12	13	14	15	16	17	18	19
- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]			- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		M173	JOINT CONNECTOR-M03	24342_4GA2A		6 5 4 3 2 1	11 10 9 8 7		50 27 27 60		Signal Name (Specification)															- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
SB	S >	SB	>	G	g	97	SB	91	SB	9 5	98		П		П							0	Wire	_	٦	٦	-	~	œ	В	œ	œ	ď	SB	SB	SB	_	SB		SB	_	SB
17	17	18	18	19	20	22	22	23	23	24	54		Connector No.	Connector Name	Connector Type	1	事	SH				Terminal	o' -	7	8	4	s 4	7	8	6	10	11	12	13	14	15	16	16	17	17	18	18
WITH NAVIGATION) (VR ENGINE) Connector No. M157		Connector Name AV CONTROL UNIT	Connector Type Tyco_1554987-1				80	91 92	93		Tarminal Color Of		9	90 W USB V BUS SIGNAL 91 R INSB D. SIGNAL	1	93 SHIELD SHIELD		Connector No. M171	Connector Name JOINT CONNECTOR-M01	Т	7	(F)	11 10 9 8 7	1817161514	23 22		Terminal Color Of		1 8	2 B .	3 8	4 B -	5 B -	6 B -		8 B	+	10 6	9	+	8	16 SB - [With VR30 engine]
INFINITI INTOUCH (BOSE AUDIO WITH 69 SHIELD SHIELD	AUX SOUND SIGNAL GND	AUX SOUND SIGNAL RH				TINIT IORINO AV					<u> </u>	73 74 75 76 77 78 79 80	81 82 83 84 85 86 8788		Signal Name (Specification)	value [specimeaton]	TEL VOICE SIGNAL (+)	VOICE GUIDANCE SIGNAL (+)	SHIELD	SOUND SIGNAL FRONT LH (+)	SOUND SIGNAL REAR LH (+)	SOUND SIGNAL REAR LH (-)	TEL VOICE SIGNAL (-)	VOICE GUIDANCE SIGNAL (-)	SHIELD	SOUND SIGNAL FRONT RH (+)	SOUND SIGNAL FRONT RH (-)	SOUND SIGNAL REAR RH (-)														

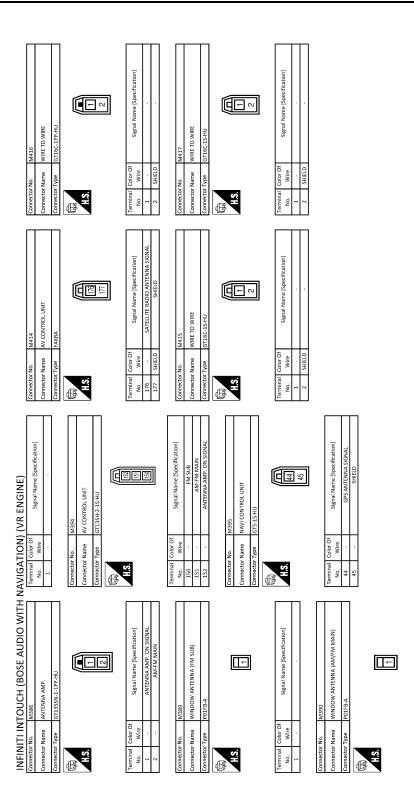
JRNWF6669GB

< WIRING DIAGRAM > [INFINITI INTOUCH]

		А
Signal Name (Specification)	WINE Signal Name [Specification] -2.19P-HU	В
	M376 ST135C2 ST135C3 M376 GT135C4	С
Terminal Color Of No. Wire 13 14 15 16 17 18 18 19 20 20	Connector Nan Connector Type Terminal Color Of No. Connector No	D
2 1 13 2 1 1 10	fication) fine fine fine or give fine or g	Е
ECTOR-M08	Signal Name (Specification) - (With Visio engine) - (With 2.0. turbo gasoline engine)	F
r No. r Name r Type	Color Of Tricks 19 19 19 19 19 19 19 1	G
	Terminal No. 10 10 10 10 10 10 10 10 10 10 10 10 10	Н
R-MO7	Signal Name [Specification]	I
(VR ENGINE) MJ77 JONN TONNECTOR-MO7 24342, 4GA2A [2 1 5 1 6 4 6 7 7 10 6 7 10 6		J
MAVIGATION (VR ENGINE) Comestor No. M177 Comestor No. M177 Comestor Name JOINT CONNECTOR MO Comestor Type 24342, 4032A Comestor Type 24342, 4032A Comestor Type M177 Comestor Type M178 M1	Terminal Color Of No. Wires Wires 1	К
A HTIW OIC	12 11 10 12 11 10 12 11 10 12 11 10 13 11 10 13 11 10 14 11 10 15 11 10	L
INFINITI INTOUCH (BOSE AUDIO WITH		M
NFINITI INTOUCH 21 16	N N N N N N N N N N	AV
INFINITI 21 16 22 16 23 16 24 16 24 16 20meetor No.	Terminal No. 0. 1 1 2 2 2 2 2 8 8 6 6 6 6 11 11 11 11 11 11 11 11 11 11 1	0
		JRNWF6670GB

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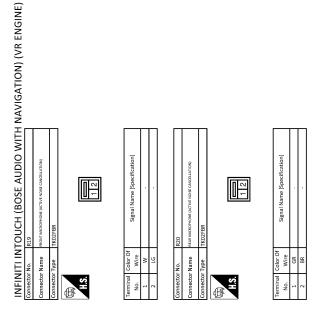


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< WIRING DIAGRAM > [INFINITI INTOUCH]

		Α
- [Without BOSE system] - [Without BOSE system] - [With BOSE system] - [With BOSE system] - [Color of wire differs depending on production] - [Col		В
Rife WIRE TO WIRE NSDBMW-CS Signal Na		С
111 R 131 1 R		D
10 10 10 10 10 10 10 10		Е
It is a large of the specific		F
No. Name N		G
Connector Name Conn		Н
FNGINE WANH 1 2 3 4 5 6 7 8		I
RIG WINE TO WI		J
Connector Name Conn		K
HIM I I I I I I I I I I I I I I I I I I		L
Connector Name Wire TO Wire Connector Name	_	M
No. M418	А	٩V
Connector Name Connector Name Connector Name Laborate Shell Color Of Name Laborate Shell Color Of Name Connector Name Laborate Shell Color Of Name Laborate S		0
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< BASIC INSPECTION > [INFINITI INTOUCH]

BASIC INSPECTION

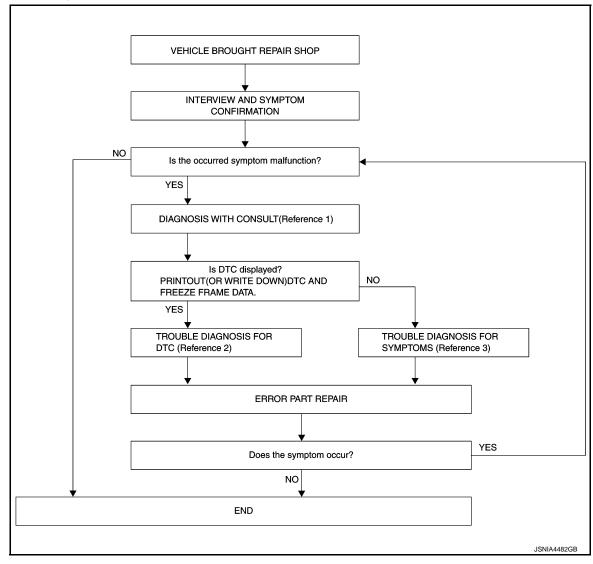
DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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OVERALL SEQUENCE



- Reference 1... Refer to <u>AV-96, "CONSULT Function"</u>.
- Reference 2··· Refer to <u>AV-107</u>, "<u>DTC Index</u>".
- Reference 3... Refer to AV-397, "Symptom Table".

DETAILED FLOW

1.INTERVIEW AND SYMPTOM CONFIRMATION

Check the malfunction symptoms by performing the following items.

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

Is the occurred symptom malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

2.DIAGNOSIS WITH CONSULT

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION > [INFINITI INTOUCH]

Connect CONSULT and perform a self-diagnosis for "MULTI AV". Refer to <u>AV-96, "CONSULT Function"</u>.
 NOTE:

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

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

Is DTC displayed?

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

3. TROUBLE DIAGNOSIS FOR DTC

- 1. Check the DTC indicated in the "Self-Diagnosis Results".
- Perform the relevant diagnosis referring to the DTC Index. Refer to AV-107. "DTC Index".

>> GO TO 5.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to <u>AV-397, "Symptom Table"</u>.

>> GO TO 5.

5. ERROR PART REPAIR

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

NOTE:

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

3. Check that the symptom does not occur.

Does the symptom occur?

YES >> GO TO 1.

NO >> INSPECTION END

ADDITIONAL SERVICE WHEN REPLACING DISPLAY CONTROL UNIT

[INFINITI INTOUCH] < BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING DISPLAY CONTROL UNIT Α Description INFOID:0000000012795574 Perform the following operations when replacing display control unit. В Configuration, refer to AV-275, "Work Procedure". Work Procedure INFOID:0000000012795575 1. SAVING VEHICLE SPECIFICATION (P)CONSULT Configuration D Perform "Before Replace ECU" of "Read / Write Configuration" to save or print current vehicle specification. NOTE: If "Before Replace ECU" of "Read / Write Configuration" can not be used, use the "Manual Configuration" after replacing display control unit. Е >> GO TO 2. F 2.REPLACE DISPLAY CONTROL UNIT Replace display control unit. Refer to AV-407, "Removal and Installation". >> GO TO 3. 3.WRITING VEHICLE SPECIFICATION Н ©CONSULT Configuration Perform "After Replace ECU" of "Read / Write Configuration" or "Manual Configuration" to write vehicle specification. Refer to AV-278, "Work Procedure". >> WORK END K M ΑV

AV-275 Revision: November 2016 2016 Q50

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT

< BASIC INSPECTION > [INFINITI INTOUCH]

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT

Description INFOID:000000012795576

Perform the following operations when replacing AV control unit.

Configuration of display control unit, refer to AV-276, "Work Procedure".

Work Procedure

1. SAVING VEHICLE SPECIFICATION

(P)CONSULT Configuration

Perform "Before Replace ECU" of "Read / Write Configuration" in "MULTI AV" to save or print current vehicle specification.

NOTE:

If "Before Replace ECU" of "Read / Write Configuration" can not be used, use the "Manual Configuration" after replacing AV control unit.

>> GO TO 2.

REPLACE AV CONTROL UNIT

Replace AV control unit. Refer to AV-408, "Removal and Installation".

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

(P)CONSULT Configuration

Perform "After Replace ECU" of "Read / Write Configuration" or "Manual Configuration" to write vehicle specification. Refer to <u>AV-278</u>, "Work <u>Procedure"</u>.

>> WORK END

ADDITIONAL SERVICE WHEN REPLACING NAVI CONTROL UNIT

INFINITI INTOUCH

ADDITIONAL SERVICE WHEN REPLACING NAVI CONTROL U	JNIT
Description	INFOID:0000000012795578
Perform the following operations when replacing NAVI control unit. Configuration of display control unit, refer to AV-277 , "Work Procedure".	
Work Procedure	INFOID:000000012795579
1. SAVING VEHICLE SPECIFICATION	
©CONSULT Configuration Perform "Before Replace ECU" of "Read / Write Configuration" in "MULTI AV" to save or pri specification. NOTE:	int current vehicle
If "Before Replace ECU" of "Read / Write Configuration" can not be used, use the "Manual C replacing NAVI control unit.	onfiguration" after
>> GO TO 2.	
2.REPLACE NAVI CONTROL UNIT	
Replace NAVI control unit. Refer to AV-409, "Removal and Installation".	
>> GO TO 3.	
3.WRITING VEHICLE SPECIFICATION	
©CONSULT Configuration Perform "After Replace ECU" of "Read / Write Configuration" or "Manual Configuration" to w fication. Refer to AV-278, "Work Procedure".	rite vehicle speci-
>> WORK END	

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CONFIGURATION (DISPLAY CONTROL UNIT)

< BASIC INSPECTION > [INFINITI INTOUCH]

CONFIGURATION (DISPLAY CONTROL UNIT)

Work Procedure

1. WRITING MODE SELECTION

©CONSULT Configuration

Select "Re/programming, Configuration" of "MULTI AV".

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

2. WRITING VEHICLE SPECIFICATION

©CONSULT Configuration

Select "Configuration" or "After Replace ECU", and write the vehicle specification saved in CONSULT to display control unit.

CAUTION:

Do not perform any operation such as the navigation operation during configuration writing.

>> GO TO 4.

3. WRITE VEHICLE SPECIFICATION

©CONSULT Configuration

Select "Manual Configuration", and write the setting value as shown in the following table to display control unit according to the vehicle specification.

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

MANUAL	SETTING ITEM	Detail				
Items	Setting value	Detail				
NAVIGATION	WITH	Models with navigation				
NAVIGATION	WITHOUT	Models without navigation				
	OFF	Except hybrid models				
HYBRID	FR TYPE	Hybrid models (2WD)				
	FR TYPE 4WD	Hybrid models (4WD)				
CAMERA SYSTEM	REAR CAMERA	With rear view monitor system				
CAIVIERA STSTEIVI	NONE/AVM ph3	With around view monitor system				
SONAR TYPE	NONE	Models without sonar				
SONAR TIPE	FRONT&REAR	Models with sonar				
AUDIO AMP TYPE	160W AMP	Models without BOSE system				
AUDIO AIVIP I TPE	2ch AMP	Models with BOSE system				
LDP (LANE DEPARTURE	On	Models with LDP				
PREVENTION)	Off	Models without LDP				
	WITHOUT/WITH AVM	With around view monitor system				
PREDICTIVE COURSE LINE	WITH (RVM WITHOUT DAST)	With rear view monitor system without direct adaptive steering				
	WITH (RVM WITH DAST)	With rear view monitor system and direct adaptive steering				
DESTINATION	US	Except for Canada				
DESTINATION	CAN	For Canada				

CONFIGURATION (DISPLAY CONTROL UNIT)

< BASIC INSPECTION >

[INFINITI INTOUCH]

Items		— Detail
	Setting value	Detail
GRADE	MODE1	Except VR30DDTT engine (2WD) with paddle shifter models
OTO IDE	MODE2	VR30DDTT engine (2WD) with paddle shifter models
>> GO TO : 1.PERFORM SELF		
CONSULT Self Di Perform self-diagnos SDTC U1223 detec	sis of CONSULT, and chec	k whether or not DTC U1223 is detected.
YES >> GO TO S NO >> GO TO S OPERATION CH	5.	
Check that the ope course lines) are not	ration of the display conti rmal.	rol unit and camera images (fixed guide lines and predictive
>> WORK I	END	

Revision: November 2016 **AV-279** 2016 Q50

B1F00 ACTIVE NOISE CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

DTC/CIRCUIT DIAGNOSIS

B1F00 ACTIVE NOISE CONTROL UNIT

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B1F00	ANC UNIT (Active noise control unit)	Active noise control unit malfunction is detected.

POSSIBLE CAUSE

Active noise control unit

FAIL-SAFE

Active noise cancellation and active sound enhancement function are deactivated.

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "ANC" using CONSULT.
- 5. Check DTC.

Is DTC B1F00 detected?

YES >> Proceed to AV-280, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498141

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- Perform DTC confirmation procedure again. Refer to <u>AV-280, "DTC Description"</u>.

Is DTC B1F00 detected again?

YES >> Replace active noise control unit. Refer to AV-429, "Removal and Installation".

NO >> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

B1F01 ENGINE SPEED SIGNAL

WITH BOSE SYSTEM

WITH BOSE SYSTEM: DTC Description

INFOID:0000000013498142

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B1F01	ENG SPEED SIG ERROR (Engine speed signal error)	When during engine running, the engine speed signal received via CAN communication and the engine speed signal inputted into BOSE amp detect 20% or more of error 1 second or more

POSSIBLE CAUSE

- · Harness or connectors (Engine speed signal circuit)
- BOSE amp.
- ECM

FAIL-SAFE

Active noise cancellation and active sound enhancement function are deactivated

DTC CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If B1F01 is displayed with DTC U1000 or U1010, first perform the confirmation procedure (trouble diagnosis) for DTC U1000 or U1010.

Is applicable DTC detected?

YES >> Perform diagnosis of applicable.

- U1000: Refer to AV-307, "DISPLAY CONTROL UNIT: DTC Description".
- U1010: Refer to AV-309, "DISPLAY CONTROL UNIT: DTC Description".

NO >> GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Start engine and wait at least 30 seconds.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC B1F01 detected?

- YES >> Proceed to AV-281, "WITH BOSE SYSTEM: Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

WITH BOSE SYSTEM : Diagnosis Procedure

INFOID:0000000013498143

1. CHECK SELF-DIAGNOSTIC RESULT OF ECM

(P)With CONSULT

Check "Self Diagnostic Result" of "ENGINE" using CONSULT.

Is any DTC detected?

YES >> Perform trouble diagnosis for detected DTC. Refer to following.

- VR30DDTT: <u>EC6-164</u>, "TURBO HIGH PRESSURE MODEL: <u>DTC Index"</u>
- 2.0L TURBO GASOLINE ENGINE: EC4-146, "DTC Index"

NO >> GO TO 2.

2.CHECK HARNESS CONTINUITY BETWEEN BOSE AMP. AND ECM

- 1. Turn ignition switch OFF.
- Disconnect BOSE amp. and ECM harness connector.

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< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

INFOID:0000000013498144

3. Check the continuity between BOSE amp. harness connector and ECM harness connector.

2.0L turbo gasoline engine

BOSE	E amp.	E	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B55	78	E200	109	Existed

VR30DDTT

BOSE amp.		ECM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B55	78	E152	178	Existed

Is inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.check harness continuity between bose amp. and ground

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

BOSE	amp.		Continuity
Connector	Terminal	Ground	Continuity
B55	78		Not existed

Is inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4. CHECK VOLTAGE BETWEEN BOSE AMP. AND GROUND

Check the voltage between BOSE amp. harness connector and ground.

(-	+)		Voltage
BOSE	amp.	(–)	(Approx.)
Connector Terminal			
B55 78		Ground	0 V

Is inspection result normal?

YES >> Replace BOSE amp. Refer to AV-413, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

WITHOUT BOSE SYSTEM

WITHOUT BOSE SYSTEM: DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B1F01	ENG SPEED SIG ERROR (Engine speed signal error)	When during engine running, the engine speed signal received via CAN communication and the engine speed signal inputted into active noise control unit detect 12.5% or more of error 1 second or more

POSSIBLE CAUSE

- · Harness or connectors (engine speed signal circuit)
- Engine type signal circuit
- ECM
- · Active noise control unit

FAIL-SAFE

< DTC/CIRCU	IT DIAGNOSIS	5 >		[INFINITI INTOUCH]
Active noise ca	ncellation and	active sound er	hancement fur	ction are deactivated
DTC CONFIR	MATION PRO	CEDURE		
1.CHECK DT	C PRIORITY			
If DTC B1F01 DTC B1F05.	is displayed wi	th DTC B1F05,	first perform th	ne confirmation procedure (trouble diagnosis) for
Is applicable D				
	rform diagnosis D TO 2.	of applicable.	Refer to AV-286	6, "DTC Description".
_	DTC CONFIRM	IATION PROCI	=DURE	
		7,11011111001		
With CONSITurn ignition	on switch ON.			
2. Turn ignition	on switch OFF a			
	e and wait at le If Diagnostic Re			NSULT.
5. Check DT				
Is DTC B1F01				
				: Diagnosis Procedure". fer to GI-45, "Intermittent Incident".
	onfirmation after			rer to <u>G1-45, intermittent incident</u> .
WITHOUT E	BOSE SYST	EM : Diagn	osis Proced	Ure (INFOID:000000013498145
4	LF-DIAGNOSTI	· ·		
(P)With CONSU				
	agnostic Result	' of "ENGINE" ເ	using CONSUL	Г.
Is any DTC det	tected?			
				efer to following.
	2.0L turbo gasol /R30DDTT: EC			<u>dex"</u> URE MODEL : DTC Index"
	O TO 2.			
2.CHECK EN	GINE TYPE SIG	GNAL		
	on switch ON.			
2. Check the	voltage betwee	n active noise	control unit harr	ess connector and ground.
2.0L turbo gas			_	
	Terminals	I		
	+)		Voltage	
	e control unit	(-)	(Approx.)	
Connector	Terminal			-
B49	3	Ground	0 V	
VDSODDTT	4			-
VR30DDTT	Tornsinala			•
	Terminals			

B49 4
Is inspection result normal?

(+)

Active noise control unit

Terminal

YES >> GO TO 4.

Connector

NO >> GO TO 3.

Voltage (Approx.)

0 V

(-)

Ground

Ρ

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK ENGINE TYPE SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect active noise control unit harness connector.
- Check the continuity between active noise control unit harness connector and ground.

2.0L turbo gasoline engine

Active noise	e control unit		Continuity	
Connector	Connector Terminal		Continuity	
B49	3	Ground	Existed	
D49	4			
VR30DDTT			_	
Active noise	e control unit		Continuity	
Connector Terminal		Ground	Continuity	
B49	B49 4		Existed	

Is inspection result normal?

YES >> Replace active noise control unit. Refer to AV-429. "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

$oldsymbol{4}.$ CHECK HARNESS CONTINUITY BETWEEN ACTIVE NOISE CONTROL UNIT AND ECM

- 1. Turn ignition switch OFF.
- 2. Disconnect active noise control unit harness connector and ECM harness connector.
- 3. Check the continuity between active noise control unit harness connector and ECM harness connector.

2.0L turbo gasoline engine

Active noise	e control unit ECM		ECM	
Connector	Terminal	Connector	Terminal	Continuity
B49	19	E200	109	Existed
VR30DDT	Т			
Active noise control unit		ECM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B49	19	E152	178	Existed

Is inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace malfunctioning parts.

5. CHECK VOLTAGE BETWEEN ACTIVE NOISE CONTROL UNIT AND GROUND

- 1. Turn ignition switch ON.
- 2. Check the voltage between active noise control unit harness connector and ground.

(+)		Voltage (Approx.)
Active noise	e control unit	(–)	(Approx.)
Connector	Terminal		
B49 19		Ground	0 V

Is inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace malfunctioning parts.

6. CHECK HARNESS CONTINUITY BETWEEN ACTIVE NOISE CONTROL UNIT AND GROUND

- Turn ignition switch OFF.
- 2. Check the continuity between active noise control unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Active noise	e control unit		Continuity
Connector	Terminal	Ground	Continuity
B49	19		Not existed

Is inspection result normal?

YES >> Replace active noise control unit. Refer to AV-429, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

В

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B1F05, B1F06, B1F07 CAN SIGNAL ERROR

DTC Description INFOID:0000000013498146

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition	
B1F05	CAN SIG ERROR/DIAG (CAN signal error/diagnosis)		
B1F06	CAN SIG ERROR/ASC (CAN signal error/active noise control)	When active noise control unit detected data error of CAN communication.	
B1F07	CAN SIG ERROR/MODE SWITCH- ING (CAN signal error/mode switching)		

POSSIBLE CAUSE

- ECM
- Combination meter
- Chassis control module

FAIL-SAFE

- B1F05: Active noise cancellation and active sound enhancement are deactivated
- B1F06: Active sound enhancement function is deactivated
- B1F07: Active noise cancellation and active sound enhancement are fixed to a standard mode.

DTC CONFIRMATION PROCEDURE

CHECK DTC PRIORITY

If DTC B1F05, B1F06 or B1F07 are displayed with DTC U1000 or U1010, first perform the confirmation procedure (trouble diagnosis) for DTC U1000 or U1010.

Is applicable DTC detected?

>> Perform diagnosis of applicable. YES

- U1000: Refer to <u>AV-308</u>. "<u>ACTIVE NOISE CONTROL UNIT</u>: <u>DTC Description</u>".
 U1010: Refer to <u>AV-309</u>, "<u>ACTIVE NOISE CONTROL UNIT</u>: <u>DTC Description</u>".

NO >> GO TO 2.

2.perform dtc confirmation procedure

With CONSULT

- Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "ANC" using CONSULT.
- Check DTC.

Is DTC B1F05, B1F06 or B1F07 detected?

>> Proceed to AV-286, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498147

1.PERFORM ALL DTC READING

With CONSULT

- 1. Perform "All DTC Reading".
- 2. Check diagnosis results.

Is any DTCs detected?

YES >> Perform diagnosis procedure corresponding to DTC indicated.

NO >> INSPECTION END

B1F0A ANC MIC1/CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

B1F0A ANC MIC1/CONTROL UNIT

DTC Description

INFOID:0000000013498148

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B1F0A	ANC MIC1/CONTROL UNIT (Active noise cancellation microphone1/Control unit)	Front microphone or active noise control unit malfunction is detected.

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POSSIBLE CAUSE

- · Harness and connectors (front microphone circuit)
- Front microphone
- Active noise control unit

FAIL-SAFE

Active noise cancellation function is deactivated

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "ANC" using CONSULT.
- 5. Check DTC.

Is DTC B1F0A detected?

YES >> Proceed to <u>AV-287</u>, "<u>Diagnosis Procedure</u>".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498149

1. CHECK FRONT MICROPHONE SIGNAL

- 1. Turn ignition switch ON.
- 2. Check the signal between active noise control unit terminals as per the following condition.

Active noise control unit				
Terminals		ninals	Condition	Deference value
Connector	(+)	(-)	Condition	Reference value
	Terminal			
B49	8	24	When inputting interior sound	(V) 1 0 -1 + 2ms SKIB3609E

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Is the inspection result normal?

YES >> Replace active noise control unit. Refer to AV-429, "Removal and Installation".

NO >> GO TO 2.

2.CHECK HARNESS CONTINUITY BETWEEN ACTIVE NOISE CONTROL UNIT AND FRONT MICROPHONE

B1F0A ANC MIC1/CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

2016 Q50

- 1. Turn ignition switch OFF.
- 2. Disconnect active noise control unit harness connector and front microphone harness connector.
- 3. Check the continuity between active noise control unit harness connector and front microphone harness connector.

Active noise control unit		Front microphone		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B49	8	R19	2	Existed	
	24		1	LAISIEU	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.check voltage between active noise control unit and ground

- 1. Turn ignition switch ON.
- 2. Check the voltage between active noise control unit harness connector and ground.

(-	+)		Voltage
Active noise control unit		(-)	(Approx.)
Connector	Terminal		
B49	8	Ground	0 V
	24	Giodila	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4. CHECK HARNESS CONTINUITY BETWEEN ACTIVE NOISE CONTROL UNIT AND GROUND

- 1. Turn ignition switch OFF.
- 2. Check the continuity between active noise control unit harness connector and ground.

Active noise	e control unit		Continuity
Connector	Terminal	Ground	
B49	8	Giodila	Not existed
	24		

Is the inspection result normal?

YES >> Replace front microphone. Refer to AV-430, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

B1F0B, B1F0C, B1F0D, B1F0E ANC MIC1 CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

B1F0B, B1F0C, B1F0D, B1F0E ANC MIC1 CIRCUIT

DTC Description

INFOID:0000000013498150

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition	(
B1F0B	ANC MIC1 CIRC OPEN (Active noise cancellation microphone1 circuit open)	Display control unit detects front microphone circuit is open.	Г
B1F0C	ANC MIC1 CIRC SHORT (Active noise cancellation microphone1 circuit short)	Display Control unit detects front microphone circuit is short.	_
B1F0D	ANC MIC1 CIRC SHORT-BAT (Active noise cancellation microphone1 circuit short-battery)	Display control unit detects front microphone circuit is short to power supply.	Ŀ
B1F0E	ANC MIC1 CIRC SHORT-GND (Active noise cancellation microphone1 circuit short-ground)	Display control unit detects front microphone circuit is short to ground.	F

POSSIBLE CAUSE

Harness or connectors (Front microphone circuit is open or short)

FAIL-SAFE

Active noise cancellation function is deactivated

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC B1F0B, B1F0C, B1F0D or B1F0E detected?

- YES >> Proceed to AV-289, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498151

CHECK FRONT MICROPHONE SIGNAL Turn ignition switch ON.

2. Check the signal between BOSE amp. harness connector as per the following condition.

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BOSE amp.				
	Terminals		Condition	Reference value
Connector	(+)	(-)	Condition	Reference value
	Terminal			
B55	72	52	When inputting interior sound	(V) 1 0 -1 + 2ms SKIB3609E

Is the inspection result normal?

YES >> Replace BOSE amp. Refer to AV-413, "Removal and Installation".

NO >> GO TO 2.

2. CHECK VOLTAGE BETWEEN BOSE AMP. AND GROUND

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

Tern	ninals	(-)		
(+)		Voltage (Approx.)	
BOSE	amp.			
Connector	Connector Terminal			
B55	72	Ground	0 V	
Б33	52	Giodila	O V	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3. CHECK FRONT MICROPHONE SIGNAL CIRCUIT FOR OPEN

- 1. Disconnect front microphone harness connector.
- 2. Check the continuity between BOSE amp. harness connector and front microphone harness connector.

BOSE amp.			Front microphone		Continuity
Ī	Connector	Terminal	Connector	Terminal	Continuity
Ī	B55	72	R19	2	Existed
	D33	52	1(19	1	LXISIEU

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4. CHECK FRONT MICROPHONE SIGNAL CIRCUIT FOR SHORT

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

BOSE	E amp.		Continuity	
Connector	Terminal	Ground	Continuity	
B55	72	Glound	Not existed	
	52		Not existed	

Is the inspection result normal?

B1F0B, B1F0C, B1F0D, B1F0E ANC MIC1 CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

YES >> Replace front microphone. Refer to <u>AV-430</u>, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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B1F0F ANC MIC2/CONTROL UNIT

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B1F0F	ANC MIC2/CONTROL UNIT (Active noise cancellation microphone2/Control unit)	Rear microphone or active noise control unit malfunction is detected.

POSSIBLE CAUSE

- Harness and connector (rear microphone circuit)
- Rear microphone
- · Active noise control unit

FAIL-SAFE

Active noise cancellation function is deactivated

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "ANC".
- Check DTC.

Is DTC B1F0F detected?

YES >> Proceed to AV-292, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498153

1. CHECK REAR MICROPHONE SIGNAL

- 1. Turn ignition switch ON.
- Check the signal between active noise control unit terminals as per the following condition.

Active noise control unit					
	Terminals		Condition	Reference value	
Connector	(+)	(-)	Condition	Reference value	
	Terminal				
B49	9	25	When inputting interior sound	(V) 1 0 -1 + 2ms SKIB3609E	

Is the inspection result normal?

YES >> Replace active noise control unit. Refer to AV-429, "Removal and Installation".

NO >> GO TO 2.

2.CHECK HARNESS CONTINUITY BETWEEN ACTIVE NOISE CONTROL UNIT AND REAR MICROPHONE

B1F0F ANC MIC2/CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

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- Turn ignition switch OFF.
- 2. Disconnect active noise control unit harness connector and rear microphone harness connector.
- Check the continuity between active noise control unit harness connector and rear microphone harness connector.

Active noise	e control unit	Rear microphone		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B49	9	R20	2	Existed
543	25	1120	1	LAISIGU

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.check voltage between active noise control unit and ground

- Turn ignition switch ON.
- 2. Check the voltage between active noise control unit harness connector and ground.

(Voltage	
Active noise	e control unit	(–)	(Approx.)
Connector Terminal			
B49	9	Ground	0 V
D43	25	Giodila	0 0

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4.CHECK HARNESS CONTINUITY BETWEEN ACTIVE NOISE CONTROL UNIT AND GROUND

- Turn ignition switch OFF.
- 2. Check the continuity between active noise control unit harness connector and ground.

Active noise	e control unit		Continuity
Connector	Terminal	Ground	Continuity
B49	9	Glound	Not existed
D43	25		Not existed

Is the inspection result normal?

YES >> Replace rear microphone. Refer to AV-431, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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B1F10, B1F11, B1F12, B1F13 ANC MIC2 CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

B1F10, B1F11, B1F12, B1F13 ANC MIC2 CIRCUIT

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B1F10	ANC MIC2 CIRC OPEN (Active noise cancellation microphone2 circuit open)	Display control unit detects rear microphone circuit is open.
B1F11	ANC MIC2 CIRC SHORT (Active noise cancellation microphone2 circuit short)	Display control unit detects rear microphone circuit is short.
B1F12	ANC MIC2 CIRC SHORT-BAT (Active noise cancellation microphone2 circuit short-battery)	Display control unit detects rear microphone circuit is short to power supply.
B1F13	ANC MIC2 CIRC SHORT-GND (Active noise cancellation microphone2 circuit short-ground)	Display control unit detects rear microphone circuit is short to ground.

POSSIBLE CAUSE

Harness or connectors (Rear microphone circuit is open or short)

FAIL-SAFE

Active noise cancellation function is deactivated

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC B1F10, B1F11, B1F12 or B1F13 detected?

- YES >> Proceed to AV-294, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498155

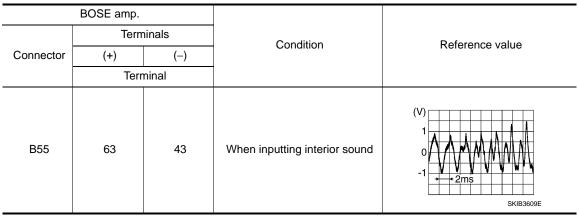
1. CHECK REAR MICROPHONE SIGNAL

- 1. Turn ignition switch ON.
- 2. Check the signal between BOSE amp. harness connector as per the following condition.

B1F10, B1F11, B1F12, B1F13 ANC MIC2 CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]



Is the inspection result normal?

YES >> Replace BOSE amp. Refer to AV-413, "Removal and Installation".

NO >> GO TO 2.

2.CHECK VOLTAGE BETWEEN BOSE AMP. AND GROUND

- Turn ignition switch OFF.
- 2. Disconnect BOSE amp. harness connector.
- 3. Turn ignition switch ON.
- Check the voltage between BOSE amp. harness connector and ground.

(+)		Voltage
BOSE	≣ amp.	(–)	(Approx.)
Connector Terminal			
B55	63	Ground	0 V
B33	43	Giodila	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.check rear microphone signal circuit for open

- 1. Turn ignition switch OFF.
- Disconnect rear microphone harness connector. 2.
- Check the continuity between BOSE amp. harness connector and rear microphone harness connector.

BOSE	≣ amp.	Rear microphone		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B55	63	R20	2	Existed	
В33	43	1\20	1	LXISIEU	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

f 4.CHECK REAR MICROPHONE SIGNAL CIRCUIT FOR SHORT

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

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B1F10, B1F11, B1F12, B1F13 ANC MIC2 CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

BOSE amp.			Continuity	
Connector	Terminal	Ground	Continuity	
B55	63	Glound	Not existed	
555	43		NOT EXISTED	

Is the inspection result normal?

YES >> Replace rear microphone. Refer to AV-431, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

B1F20 CAN SIGNAL ERROR

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

B1F20 CAN SIGNAL ERROR

DTC Description

INFOID:0000000013498156

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B1F20	CAN SIG ERROR/ASC (CAN signal error/active sound enhancement)	When active noise control unit detected data error of CAN communication from combination meter

POSSIBLE CAUSE

Combination meter

FAIL-SAFE

Active sound enhancement function is deactivated

DTC CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC B1F20 displayed with DTC U1000 or U1010, first perform the confirmation procedure (trouble diagnosis) for DTC U1000 or U1010.

Is applicable DTC detected?

YES >> Perform diagnosis of applicable.

- U1000: Refer to AV-308, "ACTIVE NOISE CONTROL UNIT: DTC Description".
- U1010: Refer to AV-309, "ACTIVE NOISE CONTROL UNIT: DTC Description".

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

- Turn ignition switch ON. 1.
- Turn ignition switch OFF and wait at least 30 seconds.
- Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "ANC" using CONSULT.
- 5. Check DTC.

Is DTC B1F20 detected?

- >> Proceed to AV-297, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498157

1. CHECK SELF-DIAGNOSTIC RESULT OF COMBINATION METER

(P)With CONSULT

- Turn ignition switch ON.
- Erase DTC.
- Check "Self Diagnostic Result" of "METER/M&A" using CONSULT.

Is any DTC detected?

>> Perform trouble diagnosis for detected DTC. Refer to MWI-141, "Removal and Installation". YES

NO >> GO TO 2.

2.check intermittent incident

Check the intermittent incident. Refer to GI-45, "Intermittent Incident".

>> GO TO 3.

3.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

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B1F20 CAN SIGNAL ERROR

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

(P)With CONSULT

Perform DTC confirmation procedure again. Refer to AV-297, "DTC Description".

Is DTC B1F20 detected again?

YES >> Replace active noise control unit. Refer to AV-429, "Removal and Installation".

NO >> INSPECTION END

U0100 CAN COMMUNICATION

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U0100 CAN COMMUNICATION

DTC Description

INFOID:0000000013498158

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U0100	LOST COMM (ECM A) (Lost communication ECM A)	Active noise control unit cannot receive a CAN communication signal from ECM for 1 second or more.

POSSIBLE CAUSE

Harness or connector (CAN communication line is open or shorted)

FAIL-SAFF

Active noise cancellation and active sound enhancement are deactivated

DTC CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC U0100 is displayed with DTC U1000 or U1010, first perform the confirmation procedure (trouble diagnosis) for DTC U1000 or U1010.

Is applicable DTC detected?

YES >> Perform diagnosis of applicable.

- U1000: Refer to <u>AV-308</u>, "<u>ACTIVE NOISE CONTROL UNIT</u>: <u>DTC Description</u>".
- U1010: Refer to <u>AV-309</u>, "<u>ACTIVE NOISE CONTROL UNIT</u>: <u>DTC Description</u>".

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE

(P)CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 2 seconds or more.
- Select "Self Diagnostic Result" mode of "ANC" using CONSULT.
- Check DTC.

Is DTC U0100 detected?

YES >> Proceed to AV-299, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498159

1. CHECK SELF-DIAGNOSTIC RESULT OF ECM

(P)With CONSULT

- Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" of "ECM" using CONSULT.

Is any DTC detected?

YES >> Perform trouble diagnosis for detected DTC. Refer to <u>EC4-146</u>, "DTC Index".

NO >> GO TO 2.

2.CHECK HARNESS AND CONNECTOR

- Turn ignition switch OFF.
- Check the following parts for damage, bend and loose connection.
- Active noise control unit harness connector and terminal
- ECM harness connector and terminal
- Harness between active noise control unit harness connector and ECM harness connector

Is the inspection result normal?

YES >> GO TO 3.

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AV-299

U0100 CAN COMMUNICATION

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

NO >> Repair or replace malfunctioning parts.

3. CHECK CAN COMMUNICATION CIRCUIT

- 1. Disconnect active noise control unit and ECM connector.
- 2. Check the continuity between active noise control unit harness connector and ECM harness connector.

2.0L turbo gasoline engine

Active noise control unit		ECM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B49	2	E200	150	Existed
D49	18		137	EXISTEC

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Active noise	e control unit	ECM		Continuity
Connector	Terminal	l Connector Terminal		Continuity
B49	2	E152	175	Existed
D49	18	L 132	176	LXISIEG

Is the inspection result normal?

YES >> Check the intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> Repair or replace malfunctioning parts.

U0140 CAN COMMUNICATION

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U0140 CAN COMMUNICATION

DTC Description

INFOID:0000000013498160

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U0140	LOST COMM (BCM) (Lost communication BCM)	Active noise control unit cannot receive a CAN communication signal from BCM for 1 second or more.

POSSIBLE CAUSE

Harness or connector (CAN communication line is open or shorted)

FAIL-SAFE

Active noise cancellation and active sound enhancement are deactivated

DTC CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC U0140 is displayed with DTC U1000 or U1010, first perform the confirmation procedure (trouble diagnosis) for DTC U1000 or U1010.

Is applicable DTC detected?

YES >> Perform diagnosis of applicable.

- U1000: Refer to AV-308, "ACTIVE NOISE CONTROL UNIT: DTC Description".
- U1010: Refer to <u>AV-309</u>, "<u>ACTIVE NOISE CONTROL UNIT</u>: <u>DTC Description</u>".

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE

(P)CONSULT

- 1. Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 2 seconds or more.
- Select "Self Diagnostic Result" mode of "ANC" using CONSULT.
- Check DTC.

Is DTC U0140 detected?

YES >> Proceed to AV-301, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498161

1. CHECK SELF-DIAGNOSTIC RESULT OF BCM

With CONSULT

- Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" of "BCM" using CONSULT.

Is any DTC detected?

YES >> Perform trouble diagnosis for detected DTC. Refer to BCS-63, "DTC_Index".

NO >> GO TO 2.

2.CHECK HARNESS AND CONNECTOR

- Turn ignition switch OFF.
- Check the following parts for damage, bend and loose connection.
- Active noise control unit harness connector and terminal
- BCM harness connector and terminal
- Harness between active noise control unit harness connector and BCM harness connector

Is the inspection result normal?

YES >> GO TO 3.

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U0140 CAN COMMUNICATION

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

NO >> Repair or replace malfunctioning parts.

3. CHECK CAN COMMUNICATION CIRCUIT

- 1. Disconnect active noise control unit and BCM connector.
- 2. Check the continuity between active noise control unit harness connector and BCM harness connector.

Active noise	e control unit	ВСМ		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B49	2	M14	59	Existed	
D49	18	IVI 14	60	LAISIEU	

Is the inspection result normal?

YES >> Check the intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> Repair or replace malfunctioning parts.

U0155 CAN COMMUNICATION

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U0155 CAN COMMUNICATION

DTC Description

INFOID:0000000013498162

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U0155	LOST COMM (METER) (Lost communication meter)	Active noise control unit cannot receive a CAN communication signal from combination meter for 1 second or more.

POSSIBLE CAUSE

Harness or connector (CAN communication line is open or shorted)

FAIL-SAFE

Active sound enhancement function is deactivated

DTC CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC U0155 is displayed with DTC U1000 or U1010, first perform the confirmation procedure (trouble diagnosis) for DTC U1000 or U1010.

Is applicable DTC detected?

YES >> Perform diagnosis of applicable.

- U1000: Refer to AV-308, "ACTIVE NOISE CONTROL UNIT: DTC Description".
- U1010: Refer to <u>AV-309</u>, "<u>ACTIVE NOISE CONTROL UNIT</u>: <u>DTC Description</u>".

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE

(P)CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 2 seconds or more.
- Select "Self Diagnostic Result" mode of "ANC" using CONSULT.
- Check DTC.

Is DTC U0155 detected?

YES >> Proceed to AV-303, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498163

1. CHECK SELF-DIAGNOSTIC RESULT OF COMBINATION METER

(P)With CONSULT

- Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" of "METER/M&A" using CONSULT.

Is any DTC detected?

YES >> Perform trouble diagnosis for detected DTC. Refer to MWI-87, "DTC Index".

NO >> GO TO 2.

2. CHECK HARNESS AND CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Check the following parts for damage, bend and loose connection.
- Active noise control unit harness connector and terminal
- Combination meter harness connector and terminal
- Harness between active noise control unit harness connector and combination meter harness connector

Is the inspection result normal?

YES >> GO TO 3.

Revision: November 2016

AV-303

U0155 CAN COMMUNICATION

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

NO >> Repair or replace malfunctioning parts.

3. CHECK CAN COMMUNICATION CIRCUIT

- 1. Disconnect active noise control unit and combination meter connector.
- 2. Check the continuity between active noise control unit harness connector and combination meter harness connector.

Active noise	e control unit	Combination meter		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B40	2	M58	42	Existed	
D49	B49 18	IVIOO	41	Existed	

Is the inspection result normal?

YES >> Check the intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> Repair or replace malfunctioning parts.

U0198 CAN COMMUNICATION

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U0198 CAN COMMUNICATION

DTC Description

INFOID:0000000013498164

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U0198	LOST COMM (TCU) (Lost communication TCU)	Active noise control unit cannot receive a CAN communication signal from chassis control module for 1 second or more.

POSSIBLE CAUSE

Harness or connector (CAN communication line is open or shorted)

FAIL-SAFE

Active sound enhancement function is deactivated

DTC CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC U0198 is displayed with DTC U1000 or U1010, first perform the confirmation procedure (trouble diagnosis) for DTC U1000 or U1010.

Is applicable DTC detected?

YES >> Perform diagnosis of applicable.

- U1000: Refer to AV-308, "ACTIVE NOISE CONTROL UNIT: DTC Description".
- U1010: Refer to <u>AV-309</u>, "<u>ACTIVE NOISE CONTROL UNIT</u>: <u>DTC Description</u>".

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 2 seconds or more.
- Select "Self Diagnostic Result" mode of "ANC" using CONSULT.
- Check DTC.

Is DTC U0198 detected?

YES >> Proceed to <u>AV-305</u>, "<u>Diagnosis Procedure</u>".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498165

1.check self-diagnostic result of chassis control module

(P)With CONSULT

- Turn ignition switch ON.
- Check "Self Diagnostic Result" of "CHASSIS CONTROL" using CONSULT.

Is any DTC detected?

YES >> Perform trouble diagnosis for detected DTC. Refer to DAS-550, "DTC Index".

NO >> GO TO 2.

2.CHECK HARNESS AND CONNECTOR

- Turn ignition switch OFF.
- Check the following parts for damage, bend and loose connection.
- Active noise control unit harness connector and terminal
- Chassis control module harness connector and terminal
- Harness between active noise control unit harness connector and chassis control module harness connector

Is the inspection result normal?

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U0198 CAN COMMUNICATION

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3. CHECK CAN COMMUNICATION CIRCUIT

- 1. Disconnect active noise control unit and chassis control module connector.
- Check the continuity between active noise control unit harness connector and chassis control module harness connector.

Without digital motion control

Active noise	e control unit	Chassis control module		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B49	2	F22	3	Existed	
D43	18	LZZ	4	LAISIEU	

With digital motion control

Active noise control unit		Chassis control module		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B49	2	F219	24	Existed
D49	18	6219	10	Existed

Is the inspection result normal?

YES >> Check the intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> Repair or replace malfunctioning parts.

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U1000 CAN COMM CIRCUIT DISPLAY CONTROL UNIT

DISPLAY CONTROL UNIT: DTC Description

INFOID:0000000012795587

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DESCRIPTION

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

CAN Communication Signal Chart. Refer to LAN-67, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart (2.0L Turbo Gasoline Engine Models)".

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1000	CAN COMM CIRCUIT (CAN communication circuit)	AV control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

The system using the CAN communication signal from control unit which cannot communicate does not func-

DTC CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC U1000 is displayed with DTC U1223, first perform the confirmation procedure (trouble diagnosis) for DTC U1223.

Is applicable DTC detected?

>> Perform diagnosis of applicable. Refer to AV-312, "DTC Description".

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1000 detected?

- YES >> Proceed to AV-307, "DISPLAY CONTROL UNIT: Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident"
- NO-2 >> Confirmation after repair: INSPECTION END

DISPLAY CONTROL UNIT: Diagnosis Procedure

INFOID:000000001279558

${f 1}$. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC.
- Perform DTC confirmation procedure again. Refer to AV-307, "DISPLAY CONTROL UNIT: DTC Description".

Is DTC detected again?

AV-307 Revision: November 2016 2016 Q50

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

YES >> Perform the trouble diagnosis for CAN communication system. Refer to <u>LAN-41</u>, "Trouble <u>Diagnosis</u> Flow Chart".

NO >> INSPECTION END

ACTIVE NOISE CONTROL UNIT

ACTIVE NOISE CONTROL UNIT: DTC Description

INFOID:0000000013498179

DESCRIPTION

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

CAN Communication Signal Chart. Refer to <u>LAN-67</u>, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart (2.0L Turbo Gasoline Engine Models)".

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1000	CAN COMM CIRCUIT (CAN communication circuit)	Active noise control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

Active noise cancellation and active sound enhancement are deactivated

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 2 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "ANC" using CONSULT.
- 5. Check DTC.

Is DTC U1000 detected?

YES >> Proceed to AV-308, "ACTIVE NOISE CONTROL UNIT: Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

ACTIVE NOISE CONTROL UNIT : Diagnosis Procedure

INFOID:0000000013498180

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- Turn ignition switch ON.
- Erase DTC.
- Perform DTC confirmation procedure again. Refer to <u>AV-308, "ACTIVE NOISE CONTROL UNIT : DTC Description"</u>.

Is DTC U1000 detected again?

YES >> Perform the trouble diagnosis for CAN communication system. Refer to <u>LAN-41, "Trouble Diagnosis Flow Chart".</u>

NO >> INSPECTION END

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U1010 CONTROL UNIT (CAN)

DISPLAY CONTROL UNIT

DISPLAY CONTROL UNIT: DTC Description

INFOID:0000000012795589

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1010	CONTROL UNIT (CAN) [Control unit (CAN)]	CAN initial diagnosis internal malfunction is detected.

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

The system using the CAN communication signal does not function

DTC CONFIRMATION PROCEDURE

1.PRECONDITIONING

- Turn ignition switch OFF and wait at least 30 seconds.
- 2. Turn ignition switch ON.
- 3. Turn ignition switch OFF and wait at least 30 seconds.

>> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

- 1. Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U1010 detected?

- YES >> Proceed to AV-309, "DISPLAY CONTROL UNIT: Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

DISPLAY CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012795590

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- Perform DTC confirmation procedure again. Refer to <u>AV-309, "DISPLAY CONTROL UNIT: DTC Description"</u>.

Is DTC U1010 detected again?

YES >> Replace display control unit. Refer to <u>AV-407</u>, "Removal and Installation".

NO >> INSPECTION END

ACTIVE NOISE CONTROL UNIT

ACTIVE NOISE CONTROL UNIT: DTC Description

INFOID:0000000013498182

DESCRIPTION

CAN controller controls the communication of CAN communication signal and the error detection.

DTC DETECTION LOGIC

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Revision: November 2016 AV-309 2016 Q50

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1010	CONTROL UNIT (CAN) [Control unit (CAN)]	Malfunction is detected during initial diagnosis of the active noise control unit CAN controller.

POSSIBLE CAUSE

Active noise control unit

FAIL-SAFE

- Active noise cancellation and active sound enhancement are deactivated
- Active sound enhancement function is deactivated
- Active noise cancellation and active sound enhancement are fixed to a standard mode

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 2 seconds or more.
- 4. Select "Self-diagnostic" result" mode of "ANC" using CONSULT.
- Check DTC.

Is DTC U1010 detected?

- YES >> Proceed to AV-310, "ACTIVE NOISE CONTROL UNIT: Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

ACTIVE NOISE CONTROL UNIT : Diagnosis Procedure

INFOID:0000000013498183

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-309, "ACTIVE NOISE CONTROL UNIT: DTC Description"</u>.

Is DTC U1010 detected again?

YES >> Replace active noise control unit. Refer to AV-429, "Removal and Installation".

NO >> INSPECTION END

U121F DISPLAY CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

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DTC Description

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U121F	DISPLAY CONTROL UNIT (Display control unit)	Display control unit internal malfunction.

POSSIBLE CAUSE

Display control unit

FAIL-SAFE

As an example:

- Display is not displayed
- Display control unit restart
- Display control unit freezes

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U121F detected?

- YES >> Proceed to AV-311, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795592

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- Perform DTC confirmation procedure again. Refer to <u>AV-311, "DTC Description"</u>.

Is DTC U121F detected again?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> INSPECTION END

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[INFINITI INTOUCH]

U1223 CONFIG UNFINISH

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1223	CONFIG UNFINISH (Configuration unfinish)	When a configuration status (complete/incomplete) of display control unit is incongruous with NAVI control unit and AV control unit.

POSSIBLE CAUSE

Configuration is incomplete

FAIL-SAFE

A function of display control unit becomes mismatched with a vehicle specification and destination

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1223 detected?

YES >> Proceed to AV-312, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795594

1. 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-312, "DTC Description".

Is DTC U1223 detected again?

YES >> Perform configuration of display control unit. Refer to AV-278, "Work Procedure".

NO >> INSPECTION END

	U1231 BOSE AMP.			
< DTC/CIF	RCUIT DIAGNOSIS >		TI INTOUCH]	
	BOSE AMP.	-		
DTC Des	scription			Α
DIC Des	Scription		INFOID:0000000012795595	
DTC DET	ECTION LOGIC			В
DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition		С
U1231	AMP TEMP (Amp temperature)	When BOSE amp. temperature is high.		
POSSIBLI BOSE ar BOSE ar	np. temperature is high			D
FAIL-SAF BOSE syst	E tem does not function			Е
DTC CON	IFIRMATION PROCEDURE			F
1.PERFO	1.PERFORM DTC CONFIRMATION PROCEDURE			
	gnition switch ON.			G
 Turn ig Select Check 	 Turn ignition switch OFF and wait at least 30 seconds. Turn ignition switch ON and wait at least 30 seconds or more. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT. 			Н
YES >: NO-1 >:	231 detected? > Proceed to <u>AV-313, "Diagnosis</u> > To check malfunction symptom > Confirmation after repair: INSP	before repair: Refer to GI-45, "Intermittent Incident".		I
Diagnosi	Diagnosis Procedure			J
1. CHECK	1.CHECK AROUND BOSE AMP.			K
	Check whether there is any factor which causes a temperature rise near BOSE amp.			r
YES >				L

NO >> Remove a factor.

2.perform dtc confirmation procedure again

⊕With CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- 3. Perform DTC confirmation procedure again. Refer to AV-313, "DTC Description".

Is DTC U1231 detected again?

YES >> Replace BOSE amp. Refer to AV-413, "Removal and Installation".

NO >> INSPECTION END

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U1232 STEERING ANGLE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U1232 STEERING ANGLE SENSOR

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1232	ST ANGLE SEN CALIB (Steering angle sensor calibration)	 When calibration an uncarried out signal is received from steering angle sensor When neutral position adjustment fails in CONSULT

POSSIBLE CAUSE

- Neutral position adjustment of the steering angle sensor is incomplete
- Steering angle sensor

FAIL-SAFE

Predictive course line is not displayed

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self diagnostic result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1232 detected?

YES >> Proceed to AV-314, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795598

1. ADJUST NEUTRAL POSITION OF STEERING ANGLE SENSOR

Adjusts the steering angle sensor neutral position on ABS actuator and electrical unit (control unit) side. Refer to <u>BRC-91</u>, "Work <u>Procedure"</u>.

NOTE:

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

>> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-314, "DTC Description".

Is DTC U1232 detected again?

YES >> Replace steering angle sensor. Refer to AV-629, "Removal and Installation".

NO >> INSPECTION END

U1233 NAVI CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U1233 NAVI CONTROL UNIT

DTC Description

INFOID:0000000012795599

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1233	NAVI CONTROL UNIT (Navigation control unit)	NAVI control unit internal malfunction.

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POSSIBLE CAUSE

NAVI control unit

FAIL-SAFE

As an example:

- Map is not displayed
- Navigation screen does not operate

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self diagnostic result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1233 detected?

- YES >> Proceed to <u>AV-315</u>, "<u>Diagnosis Procedure</u>".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795600

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-315, "DTC Description"</u>.

Is DTC U1233 detected again?

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YES >> Replace NAVI control unit. Refer to AV-409, "Removal and Installation".

NO >> INSPECTION END

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[INFINITI INTOUCH]

U1234 AV CONTROL UNIT

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1234	AV CONTROL UNIT (AV control unit)	AV control unit is malfunctioning.

POSSIBLE CAUSE

AV control unit

FAIL-SAFE

As an example:

- · Sound is not output by a speaker
- CD is not played
- · Radio does not operate

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self diagnostic result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1234 detected?

YES >> Proceed to <u>AV-316</u>, "<u>Diagnosis Procedure</u>".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795602

1. 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-316, "DTC Description".

Is DTC U1234 detected again?

YES >> Replace AV control unit. Refer to <u>AV-408</u>, "Removal and Installation".

NO >> INSPECTION END

U1244 GPS ANTENNA CONN

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U1244 GPS ANTENNA CONN

DTC Description

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1244	GPS ANTENNA CONN (GPS antenna connection error)	GPS antenna connection is malfunctioning.

POSSIBLE CAUSE

- · GPS antenna is not connected
- GPS antenna

FAIL-SAFE

The vehicle positions of a navigation screen differ.

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U1244 detected?

- YES >> Proceed to AV-317, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795604

1. CHECK GPS ANTENNA HARNESS CONNECTOR

- Turn ignition switch OFF.
- 2. Visually check GPS antenna connection.

Is the inspection result normal?

- YES >> Replace GPS antenna. Refer to AV-426, "Removal and Installation".
- NO >> Repair connection of GPS antenna to NAVI control unit.

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U1249 AUDIO H/U CONN

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1249	AUDIO H/U CONN (Audio head unit connection error)	 AV control unit power supply and ground circuits are malfunctioning. AV communication circuit between display control unit and AV control unit is malfunctioning.

NOTE:

DTC U1249 is displayed with DTC U1300.

POSSIBLE CAUSE

- · AV control unit
- AV communication circuit is open

FAIL-SAFE

As an example:

- Sound is not output by a speaker
- CD is not played
- Radio does not operate

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1249 detected?

YES >> Proceed to AV-318, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795606

1. CHECK AV CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check AV control unit power supply and ground circuit. Refer to <u>AV-368, "AV CONTROL UNIT : Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK AV COMMUNICATION CIRCUIT

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

Display control unit		AV control unit		Continuity	
Connector Terminal		Connector	Terminal	Continuity	
M100	16	M164 22	Existed		
IVITOO	28	101104	42	LXISTEC	

U1249 AUDIO H/U CONN

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-408, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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[INFINITI INTOUCH]

U124E AMP CONN

DTC Description

INFOID:0000000012795607

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U124E	AMP CONN (Amp connection error)	BOSE amp. power supply and ground circuits are malfunctioning. AV communication circuit between display control unit and BOSE amp. is malfunctioning.

NOTE:

DTC U124E is displayed with DTC U1300.

POSSIBLE CAUSE

- · BOSE amp.
- AV communication circuit is open

FAIL-SAFE

Sound is not output by a speaker

DTC CONFIRMATION PROCEDURE

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U124E detected?

YES >> Proceed to AV-320, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795608

${f 1.}$ CHECK BOSE AMP. POWER SUPPLY AND GROUND CIRCUIT

Check BOSE amp. power supply and ground circuit. Refer to <u>AV-371, "BOSE AMP. : Diagnosis Procedure"</u>. <u>Is the inspection result normal?</u>

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2. CHECK AV COMMUNICATION CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect display control unit harness connector and BOSE amp. harness connector.
- 3. Check the continuity between display control unit harness connector and BOSE amp. harness connector.

Display control unit		BOSE amp.		Continuity	
Connector Terminal		Connector	Terminal	Continuity	
M100	16	B55	54	Existed	
IVITOO	28	D 33	74	LXISIEU	

Is the inspection result normal?

YES >> Replace BOSE amp. Refer to AV-413, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

U1258 SATELLITE RADIO ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U1258 SATELLITE RADIO ANTENNA

DTC Description

INFOID:0000000012795609

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition	
U1258 (Satellite ra	XM ANTENNA CONN	GND-SHORT (Ground to short circuit)	Satellite radio antenna circuit is short circuit to ground.	_
	(Satellite radio antenna con- nection error)	OPEN (Open circuit)	Satellite radio antenna circuit is open.	D

POSSIBLE CAUSE

- Satellite radio antenna is not connected
- Harness or connector (Satellite radio antenna circuit is open or short)

FAIL-SAFE

Satellite radio is not received

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U1258 detected?

YES >> Proceed to AV-321, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795610

1. CHECK SATELLITE RADIO ANTENNA HARNESS CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Visually check satellite radio antenna and antenna feeder.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK SATELLITE RADIO ANTENNA HARNESS CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect AV control unit harness connector.
- Check the continuity AV control unit harness connector and ground.

(-	+)		Continuity
AV con	trol unit	(–)	Continuity
Connector Terminal			
M414	176	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

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U1258 SATELLITE RADIO ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

3. CHECK AV CONTROL UNIT VOLTAGE

- 1. Turn ignition switch ON.
- 2. Check the voltage between AV control unit and ground.

Term	Voltage (Approx.)	
(+)		
AV control unit		
Terminal		
176	Ground	5.0 V

Is the inspection result normal?

YES >> Replace satellite radio antenna. Refer to AV-424, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-408, "Removal and Installation".

U1259 INTEGRAL SWITCH CONN

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U1259 INTEGRAL SWITCH CONN

DTC Description

INFOID:0000000012795611

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1259	2ND DIP CONN (2nd display connection error)	 Integral switch power supply and ground circuits are malfunctioning. AV communication circuit between display control unit and integral switch is malfunctioning.

NOTE:

DTC U1259 is displayed with DTC U1300.

POSSIBLE CAUSE

- Integral switch
- AV communication circuit is open

FAIL-SAFE

- Integral switch display is not displayed
- Switch operation is invalid
- Touch panel operation is invalid

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U1259 detected?

>> Proceed to AV-323, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795612

1. CHECK INTEGRAL SWITCH POWER SUPPLY AND GROUND CIRCUIT

Check integral switch power supply and ground circuit. Refer to AV-372, "INTEGRAL SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK AV COMMUNICATION CIRCUIT

- Turn ignition switch OFF.
- Disconnect display control unit harness connector and integral switch harness connector.
- Check the continuity between display control unit harness connector and integral switch harness connector.

Display control unit		Integral switch		Continuity	
Connector Terminal		Connector	Terminal	Continuity	
M100	16	M1	3	Existed	
101100	28	IVII	4	LAISIEU	

Is the inspection result normal?

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U1259 INTEGRAL SWITCH CONN

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

>> Replace integral switch. Refer to <u>AV-410, "Removal and Installation"</u>. >> Repair or replace malfunctioning parts. YES

NO

[INFINITI INTOUCH]

U125B AVM CONN

DTC Description

INFOID:0000000012795613

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U125B	AROUND CAMERA CONN (Around camera connection error)	 Around view monitor control unit power supply and ground circuits are malfunctioning. AV communication circuit between display control unit and around view monitor control unit is malfunctioning.

NOTE:

DTC U125B is displayed with DTC U1300.

POSSIBLE CAUSE

- Around view monitor control unit
- AV communication circuit is open

FAIL-SAFE

Camera image is not displayed

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U125B detected?

YES >> Proceed to AV-325, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795614

${f 1}$.CHECK AROUND VIEW MONITOR CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check around view monitor control unit power supply and ground circuit. Refer to AV-599, "AROUND VIEW MONITOR CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK AV COMMUNICATION CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect display control unit harness connector and around view monitor control unit harness connec-
- Check the continuity between display control unit harness connector and around view monitor control unit harness connector.

Display control unit		Around view monitor control unit		Continuity
Connector	Terminal	Connector Terminal		
M100	16	B50	20	Existed
IVITOO	28	Б30	19	LXISIEU

Is the inspection result normal?

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U125B AVM CONN

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

>> Replace around view monitor control unit. Refer to <u>AV-619, "Removal and Installation"</u>. >> Repair or replace malfunctioning parts. YES

NO

U125D NAVI CONN

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U125D NAVI CONN

DTC Description

INFOID:0000000012795615

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U125D	DVD NAVI CONN (DVD navigation connection error)	 NAVI control unit power supply and ground circuits are malfunctioning. Communication between display control unit and NAVI control unit is malfunctioning.

POSSIBLE CAUSE

- NAVI control unit
- USB harness is not connected

FAIL-SAFE

A navigation menu cannot be selected (hatching display).

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U125D detected?

- YES >> Proceed to AV-327, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795616

1. CHECK USB HARNESS CONNECTION

- Turn ignition switch OFF.
- 2. Visually check USB harness connector between display control unit and NAVI control unit.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace USB harness.

2.CHECK NAVI CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check NAVI control unit power supply and ground circuit. Refer to AV-369, "NAVI CONTROL Procedure".

Is the inspection result normal?

YES >> Replace NAVI control unit. Refer to AV-409, "Removal and Installation".

NO >> Repair or replace malfunctioning parts. ΑV

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AV-327 Revision: November 2016 2016 Q50

[INFINITI INTOUCH]

U1266 TCU

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1266	TCU CONN (TCU connection error)	 TCU power supply and ground circuits are malfunctioning. Communication between display control unit and TCU is malfunctioning.

POSSIBLE CAUSE

- TCU
- Display control unit
- USB harness is not connected

FAIL-SAFE

Telematics system does not function

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1266 detected?

YES >> Proceed to AV-328, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795618

1. CONFIRMATION OF DTC WHICH DETECTED

- 1. Turn ignition switch ON.
- Erase DTC.
- Perform DTC confirmation procedure again. Refer to <u>AV-328, "DTC Description"</u>.

Is DTC U1266 detected with DTC U1249 and U125D?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> GO TO 2.

2.check usb harness connection

- 1. Turn ignition switch OFF.
- 2. Visually check USB harness connector between display control unit and TCU.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace USB harness.

3.CHECK TCU UNIT POWER SUPPLY AND GROUND CIRCUIT

Check TCU power supply and ground circuit. Refer to AV-765, "TCU: Diagnosis Procedure".

Is the inspection result normal?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

[INFINITI INTOUCH]

U1267 METER CONN

DTC Description

INFOID:0000000012795619

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1267	METER CONN (Combination meter connection error)	 Combination meter power supply and ground circuits are malfunctioning. AV communication circuit between display control unit and combination meter is malfunctioning.

NOTE:

DTC U1267 is displayed with DTC U1300.

POSSIBLE CAUSE

- Combination meter
- AV communication circuit is open

FAIL-SAFE

- Audio information is not displayed by the information display in the combination meter
- Navigation indicator is not displayed by the information display in the combination meter
- Steering switch does not operate

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U1267 detected?

- >> Proceed to AV-329, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795620

1. CHECK COMBINATION METER POWER SUPPLY AND GROUND CIRCUIT

Check combination meter power supply and ground circuit. Refer to MWI-120, "COMBINATION METER: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK AV COMMUNICATION CIRCUIT

- Turn ignition switch OFF.
- Disconnect display control unit harness connector and combination meter harness connector.
- Check the continuity between display control unit harness connector and combination meter harness connector.

Display control unit		Combination meter		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M100	16	M58	48	Existed
IVITOO	28	IVIJO	47	EXISTEC

Is the inspection result normal?

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U1267 METER CONN

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

YES >> Replace combination meter. Refer to MWI-141, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

U12B7 USB CONN

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U12B7 USB CONN

DTC Description

INFOID:0000000012795621

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U12B7	USB CONN (USB connection error)	When the abnormalities in communication with USB connection apparatus are detected

POSSIBLE CAUSE

- Display control unit
- AV control unit
- · USB harness is not connected

FAIL-SAFE

Audio equipment which connected to USB does not operate

DTC CONFIRMATION PROCEDURE

1 . PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- Connect audio apparatuses etc. to USB port.
- 5. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 6. Check DTC.

Is DTC U12B7 detected?

- YES >> Proceed to AV-331, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795622

1.CHECK DTC (1)

(P)With CONSULT

- 1. Remove connected audio apparatus from USB port.
- Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON.
- 4. Erase DTC.
- 5. Turn ignition switch OFF and wait at least 30 seconds.
- 6. Turn ignition switch ON and wait at least 30 seconds or more.
- 7. Check "Self Diagnostic Result" of "MULTI AV".

Is any DTC detected?

YES >> Replace AV control unit. Refer to AV-408, "Removal and Installation".

NO >> GO TO 2.

2.CHECK DTC (2)

- 1. Connect audio apparatus to USB port again.
- Check "Self Diagnostic Result" of "MULTI AV".

Is DTCU12B7 detected?

YES >> Abnormality of audio apparatus connected to USB port.

NO >> INSPECTION END

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[INFINITI INTOUCH]

U12B8 REAR CAMERA CONN

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U12B8	REAR CAMERA CONN (Rear camera connection error)	When display control unit detected error of image input from rear camera.

POSSIBLE CAUSE

- · Rear view camera
- · Rear view camera is not connected
- Rear view camera circuit is open

FAIL-SAFE

Rear camera image is not displayed

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Shift the selector lever to R position and than, shift the selector lever to P position again.
- 5. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 6. Check DTC.

Is DTC U12B8 detected?

YES >> Proceed to AV-332, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795624

1. CHECK REAR VIEW CAMERA POWER SUPPLY (1)

- 1. Turn ignition switch OFF.
- 2. Disconnect rear view camera harness connector.
- 3. Turn ignition switch ON.
- Shift the selector lever to R position.
- 5. Check the voltage between rear view camera harness connectors.

	Tern	Voltage (Approx.)		
Connector	(+)	(-)	(Approx.)	
	Terminal			
T49 1 2			6.0 V	

Is the inspection result normal?

YES >> Replace rear view camera. Refer to AV-693, "Removal and Installation".

NO >> GO TO 2.

2.CHECK REAR VIEW CAMERA POWER SUPPLY (2)

Check the voltage between rear view camera harness connector and ground.

U12B8 REAR CAMERA CONN

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

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(+)		Voltage (Approx.)
Rear vie	w camera	(–)	(Approx.)
Connector Terminal			
T49 1		Ground	6.0 V

Is the inspection result normal?

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

${f 3.}$ CHECK REAR VIEW CAMERA POWER SUPPLY CIRCUIT

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

Display control unit		Rear view camera		Continuity
Connector	Terminal	Connector Terminal		Continuity
M101	74	T49	1	Existed

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

4. CHECK REAR VIEW CAMERA GROUND CIRCUIT

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

Display control unit		Rear view camera		Continuity
Connector	Terminal	Connector Terminal		Continuity
M101	54	T49	54	Existed

Is the inspection result normal?

YES >> Check display control unit and rear view camera ground.

NO >> Repair or replace malfunctioning parts.

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[INFINITI INTOUCH]

U12BA MULTIFUNCTION SWITCH CONN

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U12BA	MULTIFUNCTION SWITCH CONN (Multifunction switch connection error)	Integral switch detects connection error with multifunction switch.

POSSIBLE CAUSE

- Multifunction switch
- · Multifunction switch is not connected

FAIL-SAFE

Multifunction switch operation is invalid

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U12BA detected?

YES >> Proceed to AV-334, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795626

1. PERFORM SELF-DIAGNOSIS OF INTEGRAL SWITCH

- 1. Turn ignition switch ON.
- 2. After ignition switch ON, press "RADIO" switch and "MENU" switch at the same time more than 3 seconds within 10 seconds.
- 3. A beep sounds, and all the air-conditioner switch indicators turn on, and a self-diagnostic mode is started.
- 4. Press each multifunction switch and check the beep sound.

NOTE:

Self-diagnostic mode is ended when the ignition switch turns OFF.

Does the beep sound by all the switch operations?

YES >> INSPECTION END

NO >> GO TO 2.

2.check multifunction switch

Check the multifunction switch. Refer to AV-334, "Component Inspection".

Is the inspection result normal?

YES >> Repair or replace harness between integral switch and multifunction switch which does not operate.

NO >> Replace multifunction switch. Refer to AV-411, "Removal and Installation".

Component Inspection

INFOID:0000000012795627

1. CHECK MULTIFUNCTION SWITCH (1)

- 1. Turn ignition switch OFF.
- 2. Disconnect multifunction switch harness connector.

U12BA MULTIFUNCTION SWITCH CONN

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

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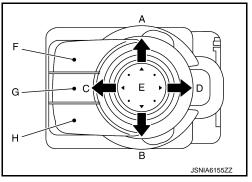
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3. Check the resistance between multifunction switch terminals as per the following condition.

Terminal		Switch position	Posistanco (O)	
(+)	(-)	Switch position	Resistance (Ω)	
		All OFF	4632 - 4868	
1		E	390.1 - 410.1	
		F	45.3 - 47.7	
	2	All OFF	4632 - 4868	
4		A	605.1 - 636.2	
4		В	211.2 - 222.0	
			G	45.3 - 47.7
		All OFF	4632 - 4868	
10		С	605.1 - 636.2	
10		D	211.2 - 222.0	
		Н	45.3 - 47.7	



Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace multifunction switch. Refer to AV-411, "Removal and Installation".

2.CHECK MULTIFUNCTION SWITCH (2)

- 1. Reconnect all harness connectors disconnected.
- 2. Turn ignition switch ON.
- 3. Check the voltage between integral switch harness connector terminals as per the following condition.

Integral switch					
	Terminals		Condition		Voltage
Connector	(+)	(-)	Condition		(Approx.)
	Terminal				
M3	32	31	Multifunction	Rotate	2.0 - 4.3 V
IVIS	37	31	switch	2.0 - 4.3 V	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace multifunction switch. Refer to AV-411, "Removal and Installation".

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U12BE RADIO ANTENNA CONN

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
HIADE	U12BE RADIO ANTENNA CONN (Radio antenna connection error)	GND-SHORT (Ground to short circuit)	Radio antenna circuit is short circuit to ground.
UIZBE		OPEN (Open circuit)	Radio antenna circuit is open.

POSSIBLE CAUSE

- Radio antenna is not connected
- Harness or connector (Radio antenna circuit is open or short)

FAIL-SAFE

Radio is not received

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U12BE detected?

YES >> Proceed to <u>AV-336</u>, "<u>Diagnosis Procedure</u>".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795629

[INFINITI INTOUCH]

1. CHECK WINDOW ANTENNA HARNESS CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Visually check radio antenna and antenna feeder.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK WINDOW ANTENNA HARNESS CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect AV control unit harness connector.
- Check the continuity AV control unit harness connector and ground.

(-	+)		Continuity
AV control unit		(–)	Continuity
Connector Terminal			
M394	150	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

U12BE RADIO ANTENNA CONN

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

3. CHECK DISPLAY CONTROL UNIT VOLTAGE

- 1. Turn ignition switch ON.
- 2. Check the voltage between AV control unit and ground.

Term		
(+)		Voltage
AV control unit	(–)	(Approx.)
Terminal		
150	Ground	5.0 V

Is the inspection result normal?

YES >> Replace window antenna. Refer to AV-423, "Feeder Layout".

NO >> Replace AV control unit. Refer to AV-408, "Removal and Installation".

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U1300 AV COMM CIRCUIT

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1300	AV COMM CIRCUIT (AV communication circuit)	 AV communication signal cannot be transmitted by the abnormalities in display control unit. AV communication signal cannot receive by the abnormalities of ECU connected to AV communication circuit.

NOTE:

DTC U1300 is simultaneously displayed as one of following DTC(s).

- U1249 AUDIO H/U CONN
- U124E AMP CONN
- U1259 2ND DISP CONN
- U125B AROUND CAMERA CONN
- U1267 METER CONN

POSSIBLE CAUSE

- · AV communication circuit
- Display control unit
- · AV control unit
- · BOSE amp.
- Integral switch
- · Around view monitor control unit
- Combination meter

FAIL-SAFE

The system of ECU which detected abnormalities does not operate.

DTC CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If U1300 is displayed with DTC U1249, U124E, U1259, U125B or U1267, first perform the confirmation procedure (trouble diagnosis) for DTC U1249, U124E, U1259, U125B or U1267.

Is applicable DTC detected?

YES >> Perform diagnosis of applicable.

- U1249: Refer to AV-318, "DTC Description".
- U124E: Refer to AV-320, "DTC Description".
- U1259: Refer to AV-323, "DTC Description".
- U125B: Refer to AV-325, "DTC Description".
- U1267: Refer to AV-329, "DTC Description".

NO >> GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE

(II) With CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U1300 detected?

YES >> Proceed to AV-339, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

U1300 AV COMM CIRCUIT

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1. CHECK SELF DIAGNOSTIC RESULT Check if any DTC other than "U1300" is detected in "Self diagnostic result" of "MULTI AV".	< DTC/CIRCUIT DIAGNOSIS >	[INFINITI INTOUCH]
Check if any DTC other than "U1300" is detected in "Self diagnostic result" of "MULTI AV". s any DTC detected? YES >> Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to AV-107, "DTC Index".	Diagnosis Procedure	INFOID:000000012795631
 s any DTC detected? YES >> Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to AV-107, "DTC Index". 	1. CHECK SELF DIAGNOSTIC RESULT	
YES >> Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to AV-107, "DTC Index".	Check if any DTC other than "U1300" is detected in "Self diag	gnostic result" of "MULTI AV".
AV-107, "DTC Index"	Is any DTC detected?	
NO >> Replace display control unit. Refer to AV-407, "Removal and Installation"		pair or replace the malfunctioning parts. Refer to
	NO >> Replace display control unit. Refer to AV-407, "R	emoval and Installation"

[INFINITI INTOUCH]

U1310 DISPLAY CONTROL UNIT

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1310	CONTROL UNIT (AV) [Control unit (AV)]	An initial diagnosis error is detected in AV communication circuit.

POSSIBLE CAUSE

Display control unit

FAIL-SAFE

The system which is using AV communication does not operate.

DTC CONFIRMATION PROCEDURE

1.PRECONDITIONING

- Turn ignition switch OFF and wait at least 30 seconds.
- 2. Turn ignition switch ON.
- 3. Turn ignition switch OFF and wait at least 30 seconds.

>> GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U1310 detected?

YES >> Proceed to AV-340, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795633

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(I) With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC.
- 3. Perform DTC confirmation procedure again. Refer to AV-340, "DTC Description".

Is DTC U1310 detected again?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> INSPECTION END

U1600, U1608 FRONT DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U1600, U1608 FRONT DOOR SPEAKER

DTC Description

INFOID:0000000012795634

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
		OPEN (Open)	Front door speaker LH circuit is open.
U1600	FL-DOOR SPEAKER	SHORT (Short)	Front door speaker LH circuit is short.
U1600	(Front left-door speaker)	GND-SHORT (Ground-short)	Front door speaker LH circuit is short circuit to ground.
		VB-SHORT (Power supply-short)	Front door speaker LH circuit is short to power supply.
		OPEN (Open)	Front door speaker RH circuit is open.
U1608	FR-DOOR SPEAKER (Front right-door speaker)	SHORT (Short)	Front door speaker RH circuit is short.
01000		GND-SHORT (Ground-short)	Front door speaker RH circuit is short circuit to ground.
		VB-SHORT (Power supply-short)	Front door speaker RH circuit is short to power supply.

POSSIBLE CAUSE

- Front door speaker LH circuit is malfunction
- · Front door speaker RH circuit is malfunction
- Front door speaker LH
- · Front door speaker RH

FAIL-SAFE

- No sound from front door speaker LH
- No sound from front door speaker RH

DTC CONFIRMATION PROCEDURE

1.PRECONDITIONING

- 1. Turn ignition switch OFF and wait at least 30 seconds.
- 2. Turn ignition switch ON.
- 3. Turn ignition switch OFF and wait at least 30 seconds.

>> GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

- Turn ignition switch ON and wait at least 30 seconds or more.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U1600 or U1608 detected?

- YES >> Proceed to AV-341, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795635

1. CHECK FRONT DOOR SPEAKER CIRCUIT FOR OPEN

1. Turn ignition switch OFF.

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U1600, U1608 FRONT DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

- 2. Disconnect AV control unit harness connector and front door speaker LH or RH harness connector.
- Check the continuity between AV control unit harness connector and front door speaker LH or RH harness connector.

Front door speaker LH

AV control unit		Front door speaker LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M163	2	D13	1	Existed
IVITOS	3	D13	2	LAISIEU

Front door speaker RH

AV con	trol unit	Front door speaker RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
M163	11	D24	1	Existed
IVITOS	12	D24	2	LXISIEU

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2. CHECK FRONT DOOR SPEAKER CIRCUIT FOR SHORT TO GROUND

Check the continuity between front door speaker LH or RH harness connector and ground.

Front door speaker LH

(Continuity		
Front door speaker LH		(–)	Continuity
Connector	Terminal		
D13	1	Ground	Existed
D13	2	Giodila	Existed

Front door speaker RH

(Continuity		
Front door	speaker RH	(–) Ground	Continuity
Connector	Connector Terminal		
D24	1	Ground	Existed
D24	2	Giodila	LXISIEU

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

${f 3.}$ CHECK FRONT DOOR SPEAKER CIRCUIT FOR SHORT TO POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Check the voltage between front door speaker LH or RH harness connector and ground.

Front door speaker LH

(-	Voltage		
Front door	speaker LH	(–) (Ap	(Approx.)
Connector	Terminal		
D13	1 2	Ground	0 V

U1600, U1608 FRONT DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

(Voltage		
Front door	speaker RH	(–)	(Approx.)
Connector	Terminal		
D24	1	Ground	0 V
D24	2	Ground	

Is the inspection result normal?

YES >> Replace front door speaker LH or RH. Refer to AV-422, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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[INFINITI INTOUCH]

U1601, U1609 FRONT DOOR WOOFER

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
	U1601 FL-DOOR WOOFER (Front left-door woofer)	OPEN (Open)	Front door woofer LH circuit is open.
111601		SHORT (Short)	Front door woofer LH circuit is short.
01601		GND-SHORT (Ground-short)	Front door woofer LH circuit is short circuit to ground.
		VB-SHORT (Power supply-short)	Front door woofer LH circuit is short to power supply.
		OPEN (Open)	Front door woofer RH circuit is open.
U1609	FR-DOOR WOOFER	SHORT (Short)	Front door woofer RH circuit is short.
(Front right-door woofer)	GND-SHORT (Ground-short)	Front door woofer RH circuit is short circuit to ground.	
	VB-SHORT (Power supply-short)	Front door woofer RH circuit is short to power supply.	

POSSIBLE CAUSE

- Front door woofer LH circuit is malfunction
- Front door woofer RH circuit is malfunction
- Front door woofer LH
- · Front door woofer RH

FAIL-SAFE

- No sound from front door woofer LH
- No sound from front door woofer RH

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1601 or U1609 detected?

YES >> Proceed to AV-344, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795637

1. CHECK FRONT DOOR WOOFER CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect BOSE amp. harness connector and front door woofer LH or RH harness connector.
- Check the continuity between BOSE amp. harness connector and front door woofer LH or RH harness connector.

U1601, U1609 FRONT DOOR WOOFER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

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Front door	woofer LH			
BOSE	E amp.	Front door	Continuity	
Connector	Terminal	Connector Terminal		Continuity
B53	13	D49	1	Existed
8		D49	2	LAISIGU

Front door woofer RH

BOSE	amp.	Front door woofer RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B53	3	D51	1	Existed
D00	4	D31	2	LAISIEU

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK FRONT DOOR WOOFER CIRCUIT FOR SHORT TO GROUND

Check the continuity between front door woofer LH or RH harness connector and ground.

Front door woofer LH

(Continuity		
Front door	woofer LH	(–)	Continuity
Connector Terminal			
D49	1	Ground	Existed
D49	2	Ground	LAISIEU

Front door woofer RH

(Continuity		
Front door	woofer RH	Continuity Ground Existed	Continuity
Connector Terminal			
D51	1	Ground	Existed
D31	2	Giodila	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

${f 3.}$ CHECK FRONT DOOR WOOFER CIRCUIT FOR SHORT TO POWER SUPPLY

- 1. Turn ignition switch ON.
- Check the voltage between front door woofer LH or RH harness connector and ground.

Front door woofer LH

(+)		Voltage (Approx.)
Front door woofer LH		(–)	(Approx.)
Connector	Terminal		
D49	1	Ground	0 V
D49	2	Ground	0 V

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U1601, U1609 FRONT DOOR WOOFER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Front door woofer RH

(+)		Voltage	
Front door	woofer RH	(–)	(Approx.)	
Connector	Connector Terminal			
D51	1	Ground	0 V	
	2	Glound	0 V	

Is the inspection result normal?

YES >> Replace front door woofer LH or RH. Refer to AV-418, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

U1602, U160A FRONT DOOR SQUAWKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U1602, U160A FRONT DOOR SQUAWKER

DTC Description

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
		OPEN (Open)	Front door squawker LH circuit is open.
U1602	FL-DOOR SQUAWK	SHORT (Short)	Front door squawker LH circuit is short.
01602	(Front left-door squawker)	GND-SHORT (Ground-short)	Front door squawker LH circuit is short circuit to ground.
		VB-SHORT (Power supply-short)	Front door squawker LH circuit is short to power supply.
		OPEN (Open)	Front door squawker RH circuit is open.
U160A	FR-DOOR SQUAWK	SHORT (Short)	Front door squawker RH circuit is short.
(Front right-door squawke	(Front right-door squawker)	GND-SHORT (Ground-short)	Front door squawker RH circuit is short circuit to ground.
		VB-SHORT (Power supply-short)	Front door squawker RH circuit is short to power supply.

POSSIBLE CAUSE

- Front door squawker LH circuit is malfunction
- Front door squawker RH circuit is malfunction
- Front door squawker LH
- Front door squawker RH

FAIL-SAFE

- No sound from front door squawker LH
- No sound from front door squawker RH

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1602 or U160A detected?

- YES >> Proceed to AV-347, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795639

1. CHECK FRONT DOOR SQUAWKER CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect BOSE amp. harness connector and front door squawker LH or RH harness connector.
- Check the continuity between BOSE amp. harness connector and front door squawker LH or RH harness connector.

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U1602, U160A FRONT DOOR SQUAWKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Front door squawker LH

BOSE	E amp.	Front door squawker LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B54	24	D11	1	Existed
D)4	35		2	LAISIGU

Front door squawker RH

BOSE	E amp.	Front door s	quawker RH	Continuity
Connector	Terminal	Connector Terminal		Continuity
B54	19	D23	1	Existed
32		D23	2	LXISIGU

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK FRONT DOOR SQUAWKER CIRCUIT FOR SHORT TO GROUND

Check the continuity between front door squawker LH or RH harness connector and ground.

Front door squawker LH

1				
(Continuity			
Front door s	squawker LH	(–)	Continuity	
Connector	Connector Terminal			
D11	1	Ground	Existed	
	2	Giodila	LXISIEU	

Front door squawker RH

(Continuity			
Front door s	quawker RH	(–)	Continuity	
Connector Terminal				
D23	1	Ground	Existed	
D23	2	Glound	LAISIEU	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.CHECK FRONT DOOR SQUAWKER CIRCUIT FOR SHORT TO POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Check the voltage between front door squawker LH or RH harness connector and ground.

Front door squawker LH

(Voltage			
Front door s	squawker LH	(–)	(Approx.)	
Connector	Terminal			
D11	1	Ground	0 V	
J11	2	Glound	O V	

U1602, U160A FRONT DOOR SQUAWKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Front	door	sauawker	RH
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(Voltage (Approx.)			
Front door s	quawker RH	(–)	(Approx.)	
Connector	Terminal			
D23	1	Ground	0 V	
D23	2	Giouna	0 0	

Is the inspection result normal?

YES >> Replace front door squawker LH or RH. Refer to AV-417, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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U1603, U160B FRONT DOOR TWEETER

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
		OPEN (Open)	Front door tweeter LH circuit is open.
U1603	FL-DOOR TWEETER	SHORT (Short)	Front door tweeter LH circuit is short.
(1603	(Front left-door tweeter)	GND-SHORT (Ground-short)	Front door tweeter LH circuit is short circuit to ground.
		VB-SHORT (Power supply-short)	Front door tweeter LH circuit is short to power supply.
		OPEN (Open)	Front door tweeter RH circuit is open.
U160B	FR-DOOR TWEETER	SHORT (Short)	Front door tweeter RH circuit is short.
01006	(Front right-door tweeter)	GND-SHORT (Ground-short)	Front door tweeter RH circuit is short circuit to ground.
		VB-SHORT (Power supply-short)	Front door tweeter RH circuit is short to power supply.

POSSIBLE CAUSE

- Front door tweeter LH circuit is malfunction
- Front door tweeter RH circuit is malfunction
- Front door tweeter LH
- · Front door tweeter RH

FAIL-SAFE

- · No sound from front door tweeter LH
- No sound from front door tweeter RH

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1603 or U160B detected?

YES >> Proceed to AV-350, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795641

1. CHECK FRONT DOOR TWEETER CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect BOSE amp. harness connector and front door tweeter LH or RH harness connector.
- Check the continuity between BOSE amp. harness connector and front door tweeter LH or RH harness connector.

U1603, U160B FRONT DOOR TWEETER

Existed

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

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Front door	tweeter LH				
BOSE	amp.	Front door tweeter LH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B54	24	D50	1	Existed	
	35	D 30	2	LXISIEU	
Front door tweeter RH					
BOSE amp.		Front door tweeter RH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	

Is the inspection result normal?

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YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

D52

2.CHECK FRONT DOOR TWEETER CIRCUIT FOR SHORT TO GROUND

Check the continuity between front door tweeter LH or RH harness connector and ground.

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Front door tweeter LH

B54

(1	Continuity			
Front door tweeter LH		(–)	Continuity	
Connector	Connector Terminal			
D50	1	Ground	Existed	
	2	Glodila	LXISIEU	

Front door tweeter RH

(Continuity		
Front door	tweeter RH	(–)	Continuity
Connector Terminal			
D52	1	Ground	Existed
D32	2	Giodila	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

$3. \mathsf{CHECK}$ front door tweeter circuit for short to power supply

- Turn ignition switch ON.
- 2. Check the voltage between front door tweeter LH or RH harness connector and ground.

Front door tweeter LH

(+)		Voltage (Approx.)	
Front door tweeter LH		(–)	(Approx.)	
Connector	Terminal			
D50	1 2	Ground	0 V	

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U1603, U160B FRONT DOOR TWEETER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Front door tweeter RH

(+)		Voltage
Front door tweeter RH		(-)	(Approx.)
Connector	Terminal		
D52	1	Ground	0 V
	2	Giodila	0 V

Is the inspection result normal?

YES >> Replace front door tweeter LH or RH. Refer to AV-416, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

U1626, U162E FRONT SQUAWKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U1626, U162E FRONT SQUAWKER

DTC Description

INFOID:0000000012795642

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition	
		OPEN (Open)	Front squawker LH circuit is open.	_
U1626	F-INST L-SQUAWK	SHORT (Short)	Front squawker LH circuit is short.	
01020	U1626 (Front instrument panel left squawker)	GND-SHORT (Ground-short)	Front squawker LH circuit is short circuit to ground.	
		VB-SHORT (Power supply-short)	Front squawker LH circuit is short to power supply.	
		OPEN (Open)	Front squawker RH circuit is open.	F
U162E	F-INST R-SQUAWK (Front instrument panel right	SHORT (Short)	Front squawker RH circuit is short.	
squawker)	GND-SHORT (Ground-short)	Front squawker RH circuit is short circuit to ground.	_ (
		VB-SHORT (Power supply-short)	Front squawker RH circuit is short to power supply.	_ -

POSSIBLE CAUSE

- Front squawker LH circuit is malfunction
- Front squawker RH circuit is malfunction
- Front squawker LH
- · Front squawker RH

FAIL-SAFE

- No sound from front squawker LH
- · No sound from front squawker RH

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- Check DTC.

Is DTC U1626 or U162E detected?

- YES >> Proceed to AV-353, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795643

1. CHECK FRONT SQUAWKER CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect BOSE amp. harness connector and front squawker LH or RH harness connector.
- Check the continuity between BOSE amp. harness connector and front squawker LH or RH harness connector.

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U1626, U162E FRONT SQUAWKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Front squawker LH

BOSE amp.		Front squawker LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B54	16	M115	1	Existed
DJ4	29	IVITIO	2	LAISIEU

Front squawker RH

BOSE amp.		Front squawker RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B54	31	M112	1	Existed
D04	30	IVITIZ	2	LAISIGU

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK FRONT SQUAWKER CIRCUIT FOR SHORT TO GROUND

Check the continuity between front squawker LH or RH harness connector and ground.

Front squawker LH

(+)		Continuity
Front squawker LH		(–)	Continuity
Connector	Terminal		
M115	1	Ground	Existed
WITIS	2	Giodila	LAISIEU

Front squawker RH

(+)		Continuity
Front squawker RH		(–)	Continuity
Connector Terminal			
M112	1	Ground	Existed
WITZ	2	Giouna	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.CHECK FRONT SQUAWKER CIRCUIT FOR SHORT TO POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Check the voltage between front squawker LH or RH harness connector and ground.

Front squawker LH

(Voltage		
Front squ	ıawker LH	(–)	(Approx.)
Connector	Connector Terminal		
M115	1	Ground	0 V
WITIS	2	Glound	O V

U1626, U162E FRONT SQUAWKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

	Terminals				
(+) Front squawker RH (-)			Voltage (Approx.)		
		(–)			
Connector	Terminal				
M112	1 0		0.1/		
IVITIZ	2	Ground	0 V		

Is the inspection result normal?

YES >> Replace front squawker LH or RH. Refer to AV-414, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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U162A CENTER SQUAWKER

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
		OPEN (Open)	Front center squawker circuit is open.
U162A	F-INST C-SQUAWK	SHORT (Short)	Front center squawker circuit is short.
0102A	(Front instrument panel center squawker)	GND-SHORT (Ground-short)	Front center squawker circuit is short circuit to ground.
		VB-SHORT (Power supply-short)	Front center squawker circuit is short to power supply.

POSSIBLE CAUSE

- Front center squawker circuit is malfunction
- · Front center squawker

FAIL-SAFE

No sound from front center squawker

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U162A detected?

YES >> Proceed to AV-356, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795645

1. CHECK FRONT CENTER SQUAWKER CIRCUIT FOR OPEN

- 1. Turn ignition switch OFF.
- Disconnect BOSE amp. harness connector and front center squawker harness connector.
- 3. Check the continuity between BOSE amp. harness connector and front center squawker harness connector.

BOSE amp.		Front center squawker		Continuity
Connector	Terminal	Connector Terminal		Continuity
B54	17	M96	1	Existed
D04	18	IVISO	2	EXISTECT

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2. CHECK FRONT CENTER SQUAWKER CIRCUIT FOR SHORT TO GROUND

Check the continuity between front center squawker harness connector and ground.

U162A CENTER SQUAWKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

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(+)		Continuity
Front center squawker		(–)	Continuity
Connector	Connector Terminal		
M96	1 Ground		Existed
Mag	2	Ground	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.check front center squawker circuit for short to power supply

1. Turn ignition switch ON.

2. Check the voltage between front center squawker harness connector and ground.

(Voltage		
Front center squawker		(–)	(Approx.)
Connector	Connector Terminal		
M96	1	Ground	0 V
IVISO	2	Giound	0 0

Is the inspection result normal?

YES >> Replace front center squawker. Refer to AV-415. "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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U1708, U1710 REAR DOOR SPEAKER

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
	RL-DOOR SPEAKER (Rear left-door speaker)	OPEN (Open)	Rear door speaker LH circuit is open.
U1708		SHORT (Short)	Rear door speaker LH circuit is short.
01708		GND-SHORT (Ground-short)	Rear door speaker LH circuit is short circuit to ground.
		VB-SHORT (Power supply-short)	Rear door speaker LH circuit is short to power supply.
	RR-DOOR SPEAKER (Rear right-door speaker)	OPEN (Open)	Rear door speaker RH circuit is open.
U1710		SHORT (Short)	Rear door speaker RH circuit is short.
01710		GND-SHORT (Ground-short)	Rear door speaker RH circuit is short circuit to ground.
		VB-SHORT (Power supply-short)	Rear door speaker RH circuit is short to power supply.

POSSIBLE CAUSE

- Rear door speaker LH circuit is malfunction
- Rear door speaker RH circuit is malfunction
- Rear door speaker LH
- · Rear door speaker RH

FAIL-SAFE

- No sound from rear door speaker LH
- No sound from rear door speaker RH

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1708 or U1710 detected?

YES (Without BOSE system)>>Proceed to AV-358. "WITHOUT BOSE SYSTEM: Diagnosis Procedure".

YES (With BOSE system)>>Proceed to AV-360, "WITH BOSE SYSTEM: Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

WITHOUT BOSE SYSTEM

WITHOUT BOSE SYSTEM: Diagnosis Procedure

INFOID:0000000012795647

1.CHECK REAR DOOR SPEAKER CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect AV control unit harness connector and rear door speaker LH or RH harness connector.
- Check the continuity between AV control unit harness connector and rear door speaker LH or RH harness connector.

U1708, U1710 REAR DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

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[INFINITI INTOUCH]

AV cor	trol unit	Rear door	speaker LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M163	4	D39	1	Existed

Rear door speaker RH

Rear door speaker LH

AV control unit		Rear door speaker RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
M163	13	D48	1	Existed
IVITOS	14	D40	2	LAISIEU

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK REAR DOOR SPEAKER CIRCUIT FOR SHORT TO GROUND

Check the continuity between rear door speaker LH or RH harness connector and ground.

2

Rear door speaker LH

(Continuity	
Rear door speaker LH		(-)	Continuity
Connector Terminal			
D39		Ground	Existed
D39	2	Giound	LAISIEU

Rear door speaker RH

(Continuity		
Rear door speaker RH		(–)	Continuity
Connector Terminal			
D48	1	Ground	Existed
D40	2	Giodila	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

${f 3.}$ CHECK REAR DOOR SPEAKER CIRCUIT FOR SHORT TO POWER SUPPLY

- Turn ignition switch ON.
- Check the voltage between rear door speaker LH or RH harness connector and ground.

Rear door speaker LH

(+)		Voltage (Approx.)
Rear door speaker LH		(–)	(Approx.)
Connector	Terminal		
D39	1	Ground	0 V
	2	Glodila	0 V

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AV-359 Revision: November 2016 2016 Q50

U1708, U1710 REAR DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Rear door speaker RH

(+)		Voltage
Rear door speaker RH		(–)	(Approx.)
Connector Terminal			
D48	1	Ground	0 V
D46	2	Giodila	0 V

Is the inspection result normal?

YES >> Replace rear door speaker LH or RH. Refer to AV-419, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

WITH BOSE SYSTEM

WITH BOSE SYSTEM: Diagnosis Procedure

INFOID:0000000012795648

1. CHECK REAR DOOR SPEAKER CIRCUIT FOR OPEN

- 1. Turn ignition switch OFF.
- 2. Disconnect BOSE amp. harness connector and rear door speaker LH or RH harness connector.
- 3. Check the continuity between BOSE amp. harness connector and rear door speaker LH or RH harness connector.

Rear door speaker LH

-					
	BOSE	amp.	Rear door speaker LH		Continuity
	Connector	Terminal	Connector Terminal		Continuity
-	B53	5	D39	1	Existed
	D00	6	D39	2	LAISIGU

Rear door speaker RH

BOSE amp.		Rear door speaker RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B53	14	D48	1	Existed
	9	D40	2	LAISIGU

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2. CHECK REAR DOOR SPEAKER CIRCUIT FOR SHORT TO GROUND

Check the continuity between rear door speaker LH or RH harness connector and ground.

Rear door speaker LH

(+)		Continuity
Rear door speaker LH		(–)	Continuity
Connector	Terminal		
D39	1	Ground	Existed
D39	2	- Ground	⊏xiStea

U1708, U1710 REAR DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

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Rear door speaker I	RH			
	Terminals			•
(+)		Continuity	
Rear door	speaker RH	(-)	Continuity	
Connector	Terminal	1		
D48	1 2	Ground	Existed	•
Is the inspection	n result normal	?		•
NO >> Re	OTO 3. pair or replace	_	-	
3.CHECK RE	AR DOOR SPE	AKER CIRCUI	T FOR SHORT	TO POWER SUPPLY
	LH	n rear door spe	eaker LH or RH	harness connector and ground.
	Terminals	T		
	+)		Voltage	
Rear door	speaker LH	(-)	(Approx.)	
Connector	Terminal			_
D39	1	Ground	0 V	
	2			_
Rear door speaker I	RH			
	Terminals			•
(+)		Voltage	
Rear door	speaker RH	(–)	(Approx.)	
Connector	Terminal			
D48	1 2	Ground	0 V	•
Is the inspection YES >> Re			RH. Refer to A	V-419, "Removal and Installation".

Revision: November 2016 **AV-361** 2016 Q50

U1722, U172A REAR SPEAKER

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
		OPEN (Open)	Rear satellite speaker LH circuit is open.
U1722	R-PSHELF L-SQUAWK (Rear parcel shelf left squawker)	SHORT (Short)	Rear satellite speaker LH circuit is short.
01722		GND-SHORT (Ground-short)	Rear satellite speaker LH circuit is short circuit to ground.
		VB-SHORT (Power supply-short)	Rear satellite speaker LH circuit is short to power supply.
	R-PSHELF R-SQUAWK (Rear parcel shelf right squawker)	OPEN (Open)	Rear satellite speaker RH circuit is open.
U172A		SHORT (Short)	Rear satellite speaker RH circuit is short.
0172A		GND-SHORT (Ground-short)	Rear satellite speaker RH circuit is short circuit to ground.
		VB-SHORT (Power supply-short)	Rear satellite speaker RH circuit is short to power supply.

POSSIBLE CAUSE

- Rear satellite speaker LH circuit is malfunction
- Rear satellite speaker RH circuit is malfunction
- Rear satellite speaker LH
- · Rear satellite speaker RH

FAIL-SAFE

- No sound from rear satellite speaker LH
- No sound from rear satellite speaker RH

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1722 or U172A detected?

YES >> Proceed to AV-362, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795650

1. CHECK REAR SATELLITE SPEAKER CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect BOSE amp. harness connector and rear satellite speaker LH or RH harness connector.
- Check the continuity between BOSE amp. harness connector and rear satellite speaker LH or RH harness connector.

U1722, U172A REAR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

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Rear satellite speaker LH	

BOSE amp.		Rear satellite speaker LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B54	22	T14	1	Existed
D04	33	114	2	LAISIBU

Rear satellite speaker RH

BOSE amp.		Rear satellite speaker RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B54	23	B77	1	Existed
	34	DI I	2	LAISIEU

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK REAR SATELLITE SPEAKER CIRCUIT FOR SHORT TO GROUND

Check the continuity between rear satellite speaker LH or RH harness connector and ground.

Rear satellite speaker LH

(Continuity		
Rear satellit	e speaker LH	(-)	Continuity
Connector	Terminal		
T14	1	Ground	Existed
114	2	Glodila	

Rear satellite speaker RH

(Continuity		
Rear satellite	e speaker RH	(–)	Continuity
Connector Terminal			
B77	1	Ground	Existed
011	2	Giodila	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

${f 3.}$ CHECK REAR SATELLITE SPEAKER CIRCUIT FOR SHORT TO POWER SUPPLY

- Turn ignition switch ON.
- Check the voltage between rear satellite speaker LH or RH harness connector and ground.

Rear satellite speaker LH

(+)	(-)	Voltage (Approx.)	
Rear satellite	e speaker LH			
Connector	Terminal			
T14	1	Ground	0 V	
	2	Sibulia	0 V	

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U1722, U172A REAR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Rear satellite speaker RH

(+)		Voltage
Rear satellite	e speaker RH	(–)	(Approx.)
Connector	Terminal		
B77	1	Ground	0 V
D//	2	Glound	

Is the inspection result normal?

YES >> Replace rear satellite speaker LH or RH. Refer to AV-420, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

U1725 REAR WOOFER

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

U1725 REAR WOOFER

DTC Description

INFOID:0000000012795651

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition	(
	U1725 R-PSHLELF C-WOOFER (Rear parcel shelf center woofer)	OPEN (Open)	Rear woofer circuit is open.	
111725		SHORT (Short)	Rear woofer circuit is short.	
01725		GND-SHORT (Ground-short)	Rear woofer circuit is short circuit to ground.	E
		VB-SHORT (Power supply-short)	Rear woofer circuit is short to power supply.	

POSSIBLE CAUSE

- · Rear woofer circuit is malfunction
- · Rear woofer

FAIL-SAFE

No sound from rear woofer

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "MULTI AV" using CONSULT.
- 5. Check DTC.

Is DTC U1725 detected?

- YES >> Proceed to AV-365, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795652

1. CHECK REAR WOOFER CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect BOSE amp. harness connector and rear woofer harness connector.
- 3. Check the continuity between BOSE amp. harness connector and rear woofer harness connector.

BOSE amp.		Rear woofer		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B53	1	B79	1	Existed
	2	519	2	LAISIEU

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK REAR WOOFER CIRCUIT FOR SHORT TO GROUND

Check the continuity between rear woofer harness connector and ground.

AV

(+)		Continuity
Rear	woofer	(–)	Continuity
Connector	Terminal		
B79	1	Ground	Existed
679	2	Giodila	LXISIEU

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

${f 3.}$ CHECK REAR WOOFER CIRCUIT FOR SHORT TO POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Check the voltage between rear woofer harness connector and ground.

Terminals			
(+)		(-)	Voltage (Approx.)
Rear woofer			
Connector	Terminal		
B79	1	Ground	0 V
5/9	2	Giodila	O V

Is the inspection result normal?

YES >> Replace rear woofer. Refer to AV-421, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

POWER SUPPLY AND GROUND CIRCUIT DISPLAY CONTROL UNIT

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DISPLAY CONTROL UNIT : Diagnosis Procedure

1. CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check that the following fuse is not blown (open).

2.0L turbo gasoline engine

Power source	Fuse No.	Capacity
Battery	#84	15 A
Ignition switch ACC	#93 [*]	10 A
Ignition switch ON	#77	10 A

^{*:} Without navigation system

VR30DDTT

Power source	Fuse No.	Capacity
Battery	#7	15 A
Ignition switch ACC	#1 [*]	10 A
Ignition switch ON	#14	5 A

^{*:} Without navigation system

Is the fuse blown (open)?

YES >> Replace fuse after repairing the applicable circuit.

NO >> GO TO 2.

2.CHECK DISPLAY CONTROL UNIT BATTERY POWER SUPPLY

- Turn ignition switch OFF.
- 2. Disconnect display control unit harness connector.
- Check the voltage between display control unit harness connector and ground.

Terminals			
(+)			Voltage
Display control unit		(–)	voltage
Connector	Terminal		
M100	34	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis for battery power supply circuit.

3.check display control unit accessory power supply

- Turn ignition switch ON.
- Check the voltage between display control unit harness connector and ground.

Terminals			
(+)			Voltage
Display control unit		(–)	voltage
Connector	Terminal		
M100	33	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

NO >> Perform trouble diagnosis for accessory power supply circuit.

4. CHECK DISPLAY CONTROL UNIT IGNITION POWER SUPPLY

Check the voltage between display control unit harness connector and ground.

Terminals			
(+)		Voltage	
Display control unit		(-)	voltage
Connector	Terminal		
M100	30	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> Perform trouble diagnosis of ignition power supply circuit.

5. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check the continuity between display control unit and ground.

Terminals			
(+)			Continuity
Display control unit		(–)	Continuity
Connector	Terminal		
M100	22	Ground	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace malfunctioning parts.

AV CONTROL UNIT

AV CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012795654

1.CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check that the following fuse is not blown (open)

2.0L turbo gasoline engine

Power source	Fuse No.	Capacity
Battery	#84	15 A
Ignition switch ACC	#93 [*]	10 A

^{*:} Without navigation system

VR30DDTT

Power source	Fuse No.	Capacity
Battery	#7	15 A
Ignition switch ACC	#1 [*]	10 A

^{*:} Without navigation system

Is the fuse blown (open)?

YES >> Replace fuse after repairing the applicable circuit.

NO >> GO TO 2.

2. CHECK AV CONTROL UNIT BATTERY POWER SUPPLY

- Turn ignition switch OFF.
- 2. Disconnect AV control unit harness connector.

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Check the voltage between AV control unit harness connector and ground.

Terminals			
(+)			Voltage
AV control unit		(–)	voltage
Connector	Terminal		
M163	19	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis for battery power supply circuit.

3.CHECK AV CONTROL UNIT ACCESSORY POWER SUPPLY

Turn ignition switch ON.

Check the voltage between AV control unit harness connector and ground.

Terminals			
(+)			Voltage
AV control unit		(–)	voltage
Connector	Terminal		
M163	7	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> Perform trouble diagnosis for accessory power supply circuit.

4. CHECK GROUND CIRCUIT

Turn ignition switch OFF.

Check the continuity between AV control unit and ground.

Terminals			
(+)			Continuity
AV control unit		(–)	Continuity
Connector	Terminal		
M163	20	Ground	Existed

Is the inspection result normal?

>> INSPECTION END YES

>> Repair or replace malfunctioning parts. NO

NAVI CONTROL UNIT

NAVI CONTROL UNIT: Diagnosis Procedure

1. CHECK FUSE

- Turn ignition switch OFF.
- Check that the following fuse is not blown (open).

2.0L turbo gasoline engine

Power source	Fuse No.	Capacity
Battery	#84	15 A
Ignition switch ON	#77	10 A

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< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

VR30DDTT		
Power source	Fuse No.	Capacity
Battery	#7	15 A
Ignition switch ON	#12	10 A

Is the fuse blown (open)?

YES >> Replace fuse after repairing the applicable circuit.

NO >> GO TO 2.

2.CHECK NAVI CONTROL UNIT BATTERY POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect NAVI control unit harness connector.
- 3. Check the voltage between NAVI control unit harness connector and ground.

Terminals			
(+)			Voltage
NAVI control unit		(–)	voltage
Connector	Terminal		
M60	1	Ground	Battery voltage
IVIOO	15	Giodila	Dattery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis for battery power supply circuit.

3.CHECK NAVI CONTROL UNIT ACCESSORY POWER SUPPLY

- 1. Turn ignition switch ON.
- Check the voltage between NAVI control unit harness connector and ground.

Terminals			
(+)			Voltage
NAVI control unit		(-)	voltage
Connector	Terminal		
M60	5	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> Perform trouble diagnosis for accessory power supply circuit.

4. CHECK NAVI CONTROL UNIT IGNITION POWER SUPPLY

Check the voltage between NAVI control unit harness connector and ground.

Terminals			
(+)			Voltage
NAVI control unit		(–)	voltage
Connector	Terminal		
M60	19	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> Perform trouble diagnosis of ignition power supply circuit.

5. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check the continuity between NAVI control unit and ground.

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Terminals			
(+)		Continuity	
NAVI control unit		(–)	Continuity
Connector	Terminal		
M60	3	Ground	Existed
IVIOU	17	Giouna	LAISIEU

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace malfunctioning parts.

BOSE AMP.

BOSE AMP.: Diagnosis Procedure

1. CHECK FUSE

1. Turn ignition switch OFF.

2. Check that the following fuse is not blown (open).

2.0L turbo gasoline engine

Power source	Fuse No.	Capacity
Battery	#82	15 A
ballery	#86	15 A
Ignition switch ACC or ON	#93 [*]	10 A

^{*:} Without navigation system

VR30DDTT

Power source	Fuse No.	Capacity
Battery	#3	15 A
Dattery	#5	15 A
Ignition switch ACC or ON	#1 [*]	10 A

^{*:} Without navigation system

Is the fuse blown (open)?

YES >> Replace fuse after repairing the applicable circuit.

NO >> GO TO 2.

2.CHECK BOSE AMP. BATTERY POWER SUPPLY

Check the voltage between BOSE amp. harness connector and ground.

Terminals			
(+)		(-)	Voltage
BOSE amp.			
Connector	Terminal		
B53	10	Ground	Battery voltage
	11	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis for battery power supply circuit.

3.CHECK BOSE AMP. ACCESSORY POWER SUPPLY

- Turn ignition switch ON.
- 2. Check the voltage between BOSE amp. harness connector and ground.

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INFOID:0000000012795656

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< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Terminals			
(+)			Voltage
BOSE amp.		(–)	voltage
Connector	Terminal		
B55	56	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> Perform trouble diagnosis for accessory power supply circuit.

4. CHECK BOSE AMP. GROUND CIRCUIT

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

Terminals			
(+)		(-)	Continuity
BOSE amp.			
Connector	Terminal		
B53	7	Ground	Existed
500	28	Sibulia	LAISIGU

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace malfunctioning parts.

INTEGRAL SWITCH

INTEGRAL SWITCH: Diagnosis Procedure

INFOID:0000000012795657

1. CHECK FUSE

- Turn ignition switch OFF.
- 2. Check that the following fuse is not blown (open).

2.0L turbo gasoline engine

Power source	Fuse No.	Capacity
Ignitions switch ACC	#93	10 A
Ignition switch ON	#77	5 A
1/000000		

VR30DDTT

Power source	Fuse No.	Capacity
Ignitions switch ACC	#1	10 A
Ignition switch ON	#11	5 A

Is the fuse blown (open)?

YES >> Replace fuse after repairing the applicable circuit.

NO >> GO TO 2.

2.CHECK INTEGRAL SWITCH ACCESSORY POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Check the voltage between integral switch harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

(+)		Voltage
Integral switch		(–)	voltage
Connector Terminal			
M1	M1 14		Battery voltage

Is the inspection result normal?

>> GO TO 3. YES

NO >> Perform trouble diagnosis for accessory power supply circuit.

3.CHECK INTEGRAL SWITCH IGNITION POWER SUPPLY

Check the voltage between integral switch harness connector and ground.

(+)		Voltage
Integra	al switch	(–)	voltage
Connector Terminal			
M1	18	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> Perform trouble diagnosis of ignition power supply circuit.

4. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Check the continuity between integral switch and ground.

(Continuity			
Integra	ll switch	(–)	Continuity	
Connector	Terminal			
M1	13	Ground	Existed	

Is the inspection result normal?

YES >> INSPECTION END

>> Repair or replace malfunctioning parts.

ACTIVE NOISE CONTROL UNIT

ACTIVE NOISE CONTROL UNIT: Diagnosis Procedure

1.CHECK FUSE

- Turn ignition switch OFF.
- Check that the following fuse is not blown (open).

2.0L turbo gasoline engine

Power source	Fuse No.	Capacity
Battery	#86	15 A
Ignition switch ACC	#93	10 A
Ignition switch ON	#77	10 A

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INFOID:0000000013498185

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

VR30DDTT		
Power source	Fuse No.	Capacity
Battery	#5	15 A
Ignition switch ACC	#1	10 A
Ignition switch ON	#12	10 A

Is the fuse blown (open)?

YES >> Replace fuse after repairing the applicable circuit.

NO >> GO TO 2.

2.CHECK ACTIVE NOISE CONTROL UNIT BATTERY POWER SUPPLY

Check the voltage between active noise control unit harness connector and ground.

(-	+)		Voltage
Active noise	e control unit	(–)	voltage
Connector	Terminal		
B49 32		Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis for battery power supply circuit.

3. CHECK ACTIVE NOISE CONTROL UNIT ACCESSORY POWER SUPPLY

- 1. Turn ignition switch ON.
- Check the voltage between active noise control unit harness connector and ground.

(-	+)		
Active noise	e control unit	(–)	Voltage
Connector Terminal			
B49	B49 16		Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> Perform trouble diagnosis for accessory power supply circuit.

4. CHECK ACTIVE NOISE CONTROL UNIT IGNITION POWER SUPPLY

Check the voltage between active noise control unit harness connector and ground.

(-	+)		
Active noise	e control unit	(–)	Voltage
Connector Terminal			
B49	B49 20		Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> Perform trouble diagnosis for ignition power supply circuit.

5. CHECK ACTIVE NOISE CONTROL UNIT GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect active noise control unit harness connector.
- 3. Check the continuity between active noise control unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Terminals			
(+)		
Active noise	e control unit	(–)	Voltage
Connector Terminal			
B49 23		Ground	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace malfunctioning parts.

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COMPOSITE IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012795658

1. CHECK COMPOSITE IMAGE SIGNAL

- 1. Turn ignition switch ON.
- 2. Check the signal between display control unit harness connector as per the following condition.

D	Display control unit			
	Term	ninals	Condition	Reference value
Connector	(+)	(-)	Condition	Reference value
	Terminal			
M101	56	36	An image is displayed	(V) 0. 4 0 -0. 4 + 40μs SKiB2251J

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> GO TO 2.

2. CHECK COMPOSITE IMAGE SIGNAL CIRCUIT FOR OPEN

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

Display o	ontrol unit	AV control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M101	56	M164	38	Existed
IVITOT	36	101104	39	LXISIEU

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.CHECK COMPOSITE IMAGE SIGNAL CIRCUIT FOR SHORT

Check the continuity between display control unit harness connector and ground.

(-	+)		Continuity
Display c	ontrol unit	(–)	Continuity
Connector	Terminal		
M101	56	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4. CHECK COMPOSITE IMAGE SIGNAL GROUND CIRCUIT

Check the continuity between display control unit harness connector and AV control unit harness connector.

COMPOSITE IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Display control unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M101	55	M164	40	Existed

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-408. "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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[INFINITI INTOUCH]

DISK EJECT SIGNAL CIRCUIT

Description INFOID:000000012795659

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

Diagnosis Procedure

INFOID:0000000012795660

1. CHECK DISK EJECT SIGNAL

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

	AV control unit			
	Term	ninals	Condition	Voltage
Connector	(+)	(-)	Condition	(Approx.)
	Terr	minal		
M163	8	9	Pressing the eject switch	0 - 1.5 V
IVITOS	0	8 9	Except for above	Battery voltage

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-408, "Removal and Installation".

NO >> GO TO 2.

2. CHECK DISK EJECT SIGNAL CIRCUIT FOR OPEN

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

AV cor	ntrol unit	Integral switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
M163	8	M1	7	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.CHECK DISK EJECT SIGNAL CIRCUIT FOR SHORT

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

AV control unit			Continuity
Connector	Terminal	Ground	Continuity
M163	8		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4.CHECK DISK EJECT SIGNAL GROUND CIRCUIT

Check the continuity between AV control unit harness connector and integral switch harness connector.

AV cor	AV control unit		l switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M163	9	M1	16	Existed

Is the inspection result normal?

YES >> Replace integral switch. Refer to <u>AV-410, "Removal and Installation"</u>.

DISK EJECT SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

NO >> Repair or replace malfunctioning parts.

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MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

MICROPHONE SIGNAL CIRCUIT WITHOUT TELEMATICS SYSTEM

WITHOUT TELEMATICS SYSTEM: Description

INFOID:0000000012795661

Supply power from display control unit to microphone. The microphone transmits the sound/voice to the display control unit.

WITHOUT TELEMATICS SYSTEM: Diagnosis Procedure

INFOID:0000000012795662

1. CHECK MICROPHONE SIGNAL

- 1. Turn ignition switch ON.
- 2. Check the signal between display control unit harness connector terminal as per the following condition.

Display control unit Terminals				
		ninals	Condition	Reference value
Connector	(+)	(-)	Condition Reference	Reference value
	Terr	ninal		
M101	71	52	Give a voice.	(V) 2. 5 2. 0 1. 5 1. 0 0. 5 0

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> GO TO 2.

2.CHECK VOLTAGE MICROPHONE VCC

- 1. Turn ignition switch OFF.
- 2. Disconnect microphone harness connector.
- 3. Turn ignition switch ON.
- 4. Check the voltage between microphone harness connector.

	Terminals			
Connector	(+)	(Approx.)		
	Terr			
R12	4	2	5.0 V	

Is the inspection result normal?

YES >> Replace microphone. Refer to AV-428, "Removal and Installation".

NO >> GO TO 3.

3.CHECK MICROPHONE CIRCUIT FOR OPEN

- 1. Disconnect display control unit harness connector.
- 2. Check continuity between display control unit harness connector and microphone harness connector.

MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

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INFOID:0000000012795663

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Display c	ontrol unit	Microphone		Continuity
Connector	Terminals	Connector Terminals		Continuity
	52		2	
M101	71	R12	1	Existed
	72		4	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4. CHECK MICROPHONE CIRCUIT FOR SHORT

Check the continuity between display control unit harness connector and ground.

	Terminals			
(+)		Continuity	
Display o	ontrol unit	(–)	Continuity	
Connector	Terminals			
M101	72	Ground	Not existed	
IVITOT	87	Ground	Not existed	

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

WITH TELEMATICS SYSTEM

WITH TELEMATICS SYSTEM: Description

TCU supplies power to the microphone when receiving a microphone ON signal from the display control
unit.

- The microphone transmits an audio signal to TCU.
- TCU transmits a received sound signal to the display control unit.

WITH TELEMATICS SYSTEM: Diagnosis Procedure

1. CHECK CONTINUITY BETWEEN DISPLAY CONTROL UNIT AND TCU CIRCUIT

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

Display o	ontrol unit	TCU		Continuity
Connector	Terminals	Connector	Terminals	Continuity
M101	71	M144	12	Existed
WITOT	52	101144	11	LXISIEU

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

Display c	ontrol unit		Continuity
Connector	Terminals	Ground	Continuity
M101	71		Not existed

Is the inspection result normal?

YES >> GO TO 2.

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NO >> Repair or replace malfunctioning parts.

2. CHECK MICROPHONE SIGNAL (DISPLAY CONTROL UNIT TO TCU)

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< DTC/CIRCUIT DIAGNOSIS >

- 1. Connect TCU harness connector.
- 2. Turn ignition switch ON.
- 3. Check the signal between display control unit harness connector.

Display control unit				
	Terminals		Condition	Reference value
Connector	Connector (+) (-) Terminal		Condition	Neierence value
			-	
M101	71	52	Give a voice.	(V) 1 0 -1 + 2ms SKIB3609E

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> GO TO 3.

${f 3.}$ CHECK CONTINUITY BETWEEN TCU AND MICROPHONE CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect TCU harness connector and microphone harness connector.
- 3. Check the continuity between TCU harness connector and microphone harness connector.

TCU		Microphone		Continuity
Connector	Terminals	Connector	Terminals	Continuity
	16		2	
M144	17	R12	1	Existed
	18		4	

4. Check the continuity between TCU harness connector and ground.

T	CU		Continuity
Connector	Terminals	Ground	Continuity
M144	17	Glound	Not existed
IVI I 4 4	18		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4. CHECK VOLTAGE MICROPHONE POWER SUPPLY

- 1. Connect TCU harness connector.
- 2. Turn ignition switch ON.
- 3. Check the voltage between TCU harness connector ground.

(-	+)		Voltage
TO	CU	(–)	(Approx.)
Connector	Connector Terminal		
M144	M144 18		5.0 V

Is the inspection result normal?

YES >> GO TO 5.

MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

NO >> Replace TCU. Refer to AV-771, "Removal and Installation".

${\bf 5.} {\sf CHECK\ MICROPHONE\ SIGNAL\ (TCU\ TO\ MICROPHONE)}$

- 1. Turn ignition switch OFF.
- 2. Connect microphone harness connector.
- 3. Turn ignition switch ON.
- 4. Check the signal between TCU harness connector.

	TCU			
	Terminals		Condition	Reference value
Connector	(+)	(–)	Condition	Reference value
	Terr	ninal		
M144	17	16	When inputting interior sound.	(V) 1 0 -1 + 2ms SKIB3609E

Is the inspection result normal?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> Replace microphone. Refer to AV-428, "Removal and Installation".

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SOUND SIGNAL CIRCUIT WITHOUT BOSE SYSTEM

WITHOUT BOSE SYSTEM: Diagnosis Procedure

INFOID:0000000012795665

1. CHECK SOUND SIGNAL

- Turn ignition switch ON.
- Check the signal between AV control unit terminal as per the following condition.

Sound signal LH

Connector (+) (-) Terminal M165 61 67 [Ignition switch ON] • Sound output Condition Reference value (V) 1 2 SKIB3609E	A	AV control unit			
Connector		Terminals		Condition	Poforonco valuo
M165 61 67 [Ignition switch ON] • Sound output	Connector	(+)	(-)	Condition	Reference value
M165 61 67 [Ignition switch ON] • Sound output		Terr	ninal		
	M165	61	67		1 0 -1 *********************************

Sound signal RH

	AV control unit	t		
	Terminals		Condition	Reference value
Connector	(+)	(-)	Condition	Reference value
	Terr	minal		
M165	62	68	[Ignition switch ON] • Sound output	(V) 1 0 -1 → 2ms SKIB3609E

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-408, "Removal and Installation".

NO >> GO TO 2.

2.check sound signal circuit for open

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

Sound signal LH

Display control unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M101	64 M165		61	Existed
	44	IVITOS	67	LXISIEU

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Sound signal RH					
Display c	ontrol unit	AV con	trol unit	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M101	62	M165	62	Existed	
WHOT	42	WITOS	68	LAISIEG	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.check sound signal circuit for short

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

Sound signal LH

(+)		Continuity
AV cor	trol unit	(–)	Continuity
Connector	Terminal		
M165	61	Ground	Not existed
WITOS	67	Giodila	INUL EXISTED

Sound signal RH

(+)		Continuity
AV control unit		(–)	Continuity
Connector	Terminal		
M165	62	Ground	Not existed
W 103	68	Giodila	INOL EXISTED

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

WITH BOSE SYSTEM

WITH BOSE SYSTEM: Diagnosis Procedure

1. CHECK SOUND SIGNAL (1)

- Turn ignition switch ON.
- Check the signal between AV control unit terminal as per the following condition.

Sound signal LH

AV control unit					
	Terminals		Condition	Reference value	
Connector	(+)	(-)	Condition	Reference value	
	Terminal				
M165	61	67	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E	

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Sound signal RH

AV control unit				
	Terminals		Condition	Reference value
Connector	(+)	(-)	Condition	Neierence value
	Terminal			
M165	62	68	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E

Is the inspection result normal?

YES >> GO TO 2. NO >> GO TO 3.

2. CHECK SOUND SIGNAL (2)

Check the signal between BOSE amp. terminal as per the following condition.

Sound signal LH

	BOSE amp.			
	Terminals		Condition	Reference value
Connector	(+)	(-)	Condition	Reference value
	Terminal		1	
B55	65	45	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E

Sound signal RH

BOSE amp.				
	Terminals		Condition	Reference value
Connector	(+)	(-)	Condition	Reference value
	Terminal			
B55	66	46	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKiB3609E

Is the inspection result normal?

YES >> Replace BOSE amp. Refer to AV-413, "Removal and Installation".

NO >> GO TO 5.

3.check sound signal circuit for open

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

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

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Sound signal LH					
Display o	Continuity				
Connector Terminal		Connector	Terminal	Continuity	
M101	64	M165	61	Existed	
IVITOT	44	IVITOS	67	LXISIGU	
Sound sig	nal RH				

Sound signal RH

Display control unit		AV control unit		Continuity	
Connec	ctor	Terminal	Connector	Terminal	Continuity
M10 ⁻	1	62	M165	62	Existed
WHOT		42	IVITOS	68	LAISIGU

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4. CHECK SOUND SIGNAL CIRCUIT FOR SHORT

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

Sound signal LH

(+)		Continuity
AV cor	trol unit	(–)	
Connector	Terminal		
M165	61	Ground	Not existed
W1103	67	Giodila	NOT EXISTED

Sound signal RH

(+)		Continuity
AV control unit		(–)	Continuity
Connector	Terminal		
M165	62	Ground	Not existed
COLIN	68	Giodila	Not existed

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

5. CHECK SOUND SIGNAL CIRCUIT FOR OPEN

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

Sound signal LH

•	AV control unit		BOSE amp.		Continuity	
-	Connector	Terminal	Connector	Terminal	Continuity	
	M163	2	B55	65	Existed	
_	WITOS	3		45	LXISIEU	

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< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

Sound signal RH

AV control unit		BOSE amp.		Continuity
Connector	Connector Terminal		Terminal	Continuity
M163	11	B55	66	Existed
WITOS	12	D33	46	LXISIEU

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace malfunctioning parts.

6. CHECK SOUND SIGNAL CIRCUIT FOR SHORT

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

Sound signal LH

	Term	ninals	
(+)		Continuity
BOSE	E amp.	(–)	Continuity
Connector	Terminal		
B55	65	Ground	Not existed
DOO	45	Oround	inoi existed

Sound signal RH

(+)		Continuity
BOSE amp.		(–)	Continuity
Connector	Terminal		
B55	66	Ground	Not existed
B00	46	Giouria	INOL EXISTED

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-408, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

STEERING SWITCH SIGNAL A CIRCUIT

Component Function Check

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1.PERFORM COMPONENT FUNCTION CHECK (1)

- 1. Turn ignition switch ON.
- 2. Perform On Board Diagnosis Function, and then check steering switch input signal. Refer to AV-83, "On Board Diagnosis Function".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. PERFORM COMPONENT FUNCTION CHECK (2)

(P)With CONSULT

Check "Self Diagnostic Result" of "MULTI AV".

Is DTC U1300 detected?

YES >> Refer to AV-338, "DTC Description".

NO >> Refer to AV-389, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012795668

1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect combination meter harness connector and spiral cable harness connector.
- 3. Check the continuity between combination meter harness connector and spiral cable harness connector.

Combination meter		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M57	22	M87	24	Existed

4. Check the continuity between combination meter harness connector and ground.

Combination meter			Continuity
Connector	Terminal	Ground	Continuity
M57	22		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK STEERING SWITCH GROUND CIRCUIT

- 1. Disconnect combination meter harness connector and spiral cable harness connector.
- 2. Check the continuity between combination meter harness connector and spiral cable harness connector.

Combination meter		Spiral cable		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M57	21	M87	33	Existed	

Check the continuity between combination meter harness connector and ground.

Combination meter			Continuity
Connector	Terminal	Ground	Continuity
M57	21		Not existed

Is the inspection result normal?

YES >> GO TO 3.

STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

NO >> Repair or replace malfunctioning parts.

3. CHECK SPIRAL CABLE

- 1. Disconnect steering switch connector.
- 2. Check the continuity between spiral cable harness connectors.

	Continuity			
Connector	Terminal	Continuity		
M87	24	M301	14	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace spiral cable. Refer to <u>SR-22. "Removal and Installation"</u>.

4. CHECK STEERING SWITCH

Check steering switch. Refer to AV-390, "Component Inspection".

Is the inspection result normal?

YES >> INSPECTION END

NO

- >> Replace steering wheel. Refer to following.
 - Models with vehicle speed sensitive P/S: ST-32, "Removal and Installation".
 - Models with direct adaptive steering: ST-134, "Removal and Installation".

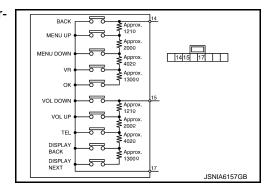
Component Inspection

INFOID:0000000012795669

1. CHECK STEERING SWITCH

- 1. Disconnect steering switch harness connector.
- Check the resistance between the steering switch connector terminals.

	g switch minal	Condition	Resistance (Approx.) Ω
		BACK switch ON	1
		MENU UP switch ON	119 – 123
14		MENU DOWN switch ON	315 – 327
		Voice recognition switch ON	709 – 737
		MENU OK switch ON	1983 – 2063
	17	VOL DOWN switch ON	1
		VOL UP switch ON	119 – 123
		TEL switch ON	315 – 327
15		DISPLAY BACK switch ON	709 – 737
		DISPLAY NEXT switch ON	1983 – 2063



Is the inspection result normal?

YES >> INSPECTION END

NO

- >> Replace steering wheel. Refer to following.
 - Models with vehicle speed sensitive P/S: <u>ST-32, "Removal and Installation"</u>.
 - Models with direct adaptive steering: ST-134, "Removal and Installation".

STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

STEERING SWITCH SIGNAL B CIRCUIT

Component Function Check

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1. PERFORM COMPONENT FUNCTION CHECK (1)

- Turn ignition switch ON.
- Perform On Board Diagnosis Function, and then check steering switch input signal. Refer to AV-83, "On **Board Diagnosis Function**".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.PERFORM COMPONENT FUNCTION CHECK (2)

(P)With CONSULT

Check "Self Diagnostic Result" of "MULTI AV".

Is DTC U1300 detected?

>> Refer to AV-338, "DTC Description". YES

>> Refer to AV-391, "Diagnosis Procedure". NO

Diagnosis Procedure

INFOID:000000001279567

1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

- Turn ignition switch OFF.
- Disconnect combination meter harness connector and spiral cable harness connector.
- Check continuity between combination meter harness connector and spiral cable harness connector.

Combination meter		Spiral cable		Continuity
Connector	Terminal	Connector Terminal		Continuity
M57	23	M87	31	Existed

Check continuity between combination meter harness connector and ground.

Combination meter			Continuity
Connector	Terminal	Ground	Continuity
M57	23		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK STEERING SWITCH GROUND CIRCUIT

- Disconnect combination meter harness connector and spiral cable harness connector.
- Check continuity between combination meter harness connector and spiral cable harness connector.

Combina	Combination meter Spiral c		l cable	Continuity
Connector	Terminal	Connector Terminal		Continuity
M57	21	M87	33	Existed

Check continuity between combination meter harness connector and ground.

Combination meter			Continuity
Connector	Terminal	Ground	Continuity
M57	21		Not existed

Is the inspection result normal?

YES >> GO TO 3.

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STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

NO >> Repair harness or connector.

3. CHECK SPIRAL CABLE

1. Disconnect steering switch connector.

2. Check continuity between spiral cable harness connectors.

	Continuity			
Connector	Connector Terminal Connector Terminal			
M87	31	M301	15	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace spiral cable. Refer to <u>SR-22, "Removal and Installation"</u>.

4. CHECK STEERING SWITCH

Check steering switch. Refer to AV-392, "Component Inspection".

Is the inspection result normal?

YES >> INSPECTION END

NO

- >> Replace steering wheel. Refer to following.
 - Models with vehicle speed sensitive P/S: ST-32, "Removal and Installation".
 - Models with direct adaptive steering: ST-134, "Removal and Installation".

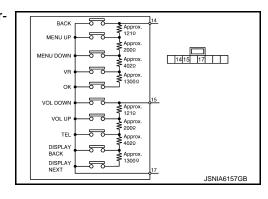
Component Inspection

INFOID:0000000012795672

1. CHECK STEERING SWITCH

- 1. Disconnect steering switch harness connector.
- Check the resistance between the steering switch connector terminals.

Steering switch		Condition	Resistance
Terr	minal	o o namon	(Approx.) Ω
		BACK switch ON	1
		MENU UP switch ON	119 – 123
14		MENU DOWN switch ON	315 – 327
		Voice recognition switch ON	709 – 737
		MENU OK switch ON	1983 – 2063
	17	VOL DOWN switch ON	1
		VOL UP switch ON	119 – 123
		TEL switch ON	315 – 327
15		DISPLAY BACK switch ON	709 – 737
		DISPLAY NEXT switch ON	1983 – 2063



Is the inspection result normal?

YES >> INSPECTION END

NO

- >> Replace steering wheel. Refer to following.
 - Models with vehicle speed sensitive P/S: <u>ST-32, "Removal and Installation"</u>.
 - Models with direct adaptive steering: <u>ST-134</u>, "Removal and Installation".

VOICE GUIDANCE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

VOICE GUIDANCE SIGNAL CIRCUIT WITHOUT BOSE SYSTEM

WITHOUT BOSE SYSTEM: Diagnosis Procedure

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1. CHECK VOICE GUIDANCE SIGNAL INPUT

- 1. Turn ignition switch ON.
- 2. Check the signal between display control unit terminals as per the following condition.

Disp	Display control unit			
	Ter	minals	Condition	Continuity
Connector	(+)	(-)	Condition	Continuity
	Te	rminal		
M101	68	48	Sound output	(V) 1 0 -1 + 2ms SKIB3609E

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK VOICE GUIDANCE SIGNAL OUTPUT

Check the signal between AV control unit terminals as per the following condition.

AV control unit					
	Terminals		Condition	Continuity	
Connector	(+)	(–)	Condition	Continuity	
	Terminal				
M166	75	83	Sound output	(V) 1 0 -1 + 2ms SKIB3609E	

Is the inspection result normal?

YES >> Replace AV control unit. Refer to AV-408, "Removal and Installation".

NO >> GO TO 5.

3.check voice guidance signal input circuit for open

- 1. Turn ignition switch OFF.
- Disconnect display control unit harness connector and NAVI control unit harness connector.
- Check the continuity between display control unit harness connector and NAVI control unit harness connector.

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< DTC/CIRCUIT DIAGNOSIS >

Display o	ontrol unit	NAVI control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M101	68	M60	14	Existed
IVITOT	48	IVIOU	28	LAISIEU

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4. CHECK VOICE GUIDANCE INPUT SIGNAL FOR SHORT

Check the continuity between display control unit harness connector and ground.

(+)		Continuity
Display o	ontrol unit	(–)	Continuity
Connector Terminal			
M101	68	Ground Not existe	Not existed
IVITOT	48	Ground	INOL EXISIEU

Is the inspection result normal?

YES >> Replace NAVI control unit. Refer to AV-409, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

${f 5.}$ CHECK VOICE GUIDANCE OUTPUT SIGNAL CIRCUIT FOR OPEN

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

AV control unit		Display control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M166	75	M101	67	Existed
IVITOO	83	IVITOT	47	LXISIEU

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace malfunctioning parts.

O.CHECK VOICE GUIDANCE OUTPUT SIGNAL FOR SHORT

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

(+)		Continuity
AV cor	ntrol unit	(–)	Continuity
Connector	Terminal		
M166	75	Ground	Not existed
WITOO	83	Oround	INOL EXISTED

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

WITH BOSE SYSTEM

VOICE GUIDANCE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

WITH BOSE SYSTEM: Diagnosis Procedure

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1. CHECK VOICE GUIDANCE SIGNAL INPUT

- Turn ignition switch ON.
- Check the signal between display control unit terminals as per the following condition.

Display control unit		unit		
	Terminals		Condition	Continuity
Connector	(+)	(-)	Condition	Continuity
	Terminal			
M101	68	48	Sound output	(V) 1 0 -1 + 2ms SKIB3609E

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.check voice guidance signal output

Check the signal between BOSE amp. terminals as per the following condition.

BOSE amp.					
	Terminals		Condition	Continuity	
Connector	(+)	(-)	Condition	Continuity	
	Terminal				
M101	67	47	Sound output	(V) 1 0 -1 → 2ms SKIB3609E	

Is the inspection result normal?

YES >> Replace BOSE amp. Refer to AV-413, "Removal and Installation".

NO >> GO TO 5.

3.CHECK VOICE GUIDANCE INPUT SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect display control unit harness connector and NAVI control unit harness connector.
- Check the continuity between display control unit harness connector and NAVI control unit harness connector.

Display control unit		NAVI control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M101	68	M60	14	Existed
IVITOT	48	IVIOU	28	LAISIEU

Is the inspection result normal?

YES >> GO TO 4.

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VOICE GUIDANCE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INFINITI INTOUCH]

NO >> Repair or replace malfunctioning parts.

4. CHECK VOICE GUIDANCE INPUT SIGNAL FOR SHORT

Check the continuity between display control unit harness connector and ground.

(+)		Continuity
Display o	ontrol unit	(–)	Continuity
Connector	Terminal		
M101	68	Ground Not existe	Not existed
IVITOT	48	Giodila	Not existed

Is the inspection result normal?

YES >> Replace NAVI control unit. Refer to AV-409, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

5. CHECK VOICE GUIDANCE OUTPUT SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect BOSE amp. harness connector and display control unit harness connector.
- 3. Check the continuity between BOSE amp. harness connector and display control unit harness connector.

BOSE amp.		Display control unit		Continuity
Connector	Terminal	Connector Terminal		Continuity
B55	64	M101	67	Existed
В33	44	IVITOT	47	LAISIGU

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace malfunctioning parts.

6.CHECK VOICE GUIDANCE OUTPUT SIGNAL FOR SHORT

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

(+)		Continuity
BOSE	E amp.	(–)	Continuity
Connector	Terminal		
B55	64	Ground	Not existed
D 33	44	Ground	

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-407. "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

[INFINITI INTOUCH]

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SYMPTOM DIAGNOSIS

MULTI AV SYSTEM SYMPTOMS

Symptom Table INFOID.000000012795675

RELATED TO NAVIGATION

Symptoms	Check items	Probable malfunction location
	The navigation system-related operation can be operated.	LVDS signal circuit between display control unit and integral switch malfunction.
	The navigation system-related operation cannot be operated.	NAVI control unit power supply and ground circuit malfunction. Refer to <u>AV-369</u> , "NAVI CONTROL UNIT : Diagnosis Procedure".
MAP is not displayed	"Map data cannot be read. Please confirm~" is displayed on the screen.	Check whether SD card is inserted correctly. USB harness between external data input box and NAVI control unit.
	Only icons, such as a vehicle mark and a clock, are displayed on the screen of display control unit by the background of the black screen.	LVDS harness between display control unit and NAVI control unit.
Fuel economy display, vehicle set	There is malfunction in the CONSULT "self-diagnosis result" of "MULTI AV". Refer to AV-96, "CONSULT Function".	Perform detected DTC diagnosis. Refer to AV-107, "DTC Index".
Fuel economy display, vehicle setting operation is abnormal.	There is no malfunction in the CON- SULT "self-diagnosis results" of "MULTI AV". Refer to AV-96, "CONSULT Function".	Ignition signal circuit malfunction. Refer to AV-367, "DISPLAY CONTROL UNIT: Diagnosis Procedure".
Guide sound is not heard or too ow. On the setting display select "system sound (guide sound volume, etc.)," and confirm that guide sound is ON.		Voice guidance signal circuit malfunction. Refer to AV-393, "WITHOUT BOSE SYSTEM: Diagnosis Procedure". (Without BOSE system.) Refer to AV-395, "WITH BOSE SYSTEM: Diagnosis Procedure". (With BOSE system.)

RELATED TO HANDS-FREE PHONE (EXCEPT FOR MEXICO)

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

- 1. Make sure the customer's Bluetooth® related concern is understood.
- 2. Verify the customer's concern.

NOTE:

The customer's phone may be required, depending upon their concern.

3. Write down the customer's phone brand, model, and service provider.

NOTE:

It is necessary to know the service provider. On occasion, a given phone may be on the approved list with one provider, but may not be on the approved list with other providers.

- Go to "www.nissanusa.com/bluetooth/".
- a. Using the website's search engine, find out if the customer's phone is on the approved list.
- b. If the customer's phone is NOT on the approved list:
 Stop diagnosis here. The customer needs to obtain a Bluetooth[®] phone that is on the approved list before any further action.
- c. If the feature related to the customer's concern shows as "N" (not compatible):

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MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[INFINITI INTOUCH]

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.

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

Symptoms	Check items	Probable malfunction location	
Does not recognize cellular phone connection. (no connection is displayed on the display at the guide.)	Repeat the registration of cellular phone.		
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. 	Display control unit malfunction. Replace display control unit. Refer to AV-407, "Removal and Installation".	
The other party's voice cannot be heard by hands-free phone.	Check the "Voice Microphone Test" in Confirmation/Adjustment mode if sound is heard.		
Originating sound is not heard	Sound operation function is normal.		
by the other party with hands- free phone communication.	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to AV-380, "WITHOUT TELEMATICS SYSTEM: Diagnosis Procedure".	
	Steering switch's "VOL UP", "VOL DOWN" and " " switches works, but " " switch does not work.	Steering switch signal A circuit malfunction. Refer to AV-389, "Diagnosis Procedure".	
The system cannot be operated.	 The voice recognition can be controlled. Steering switch ">" switch work, but "VOL UP", "VOL DOWN" and " "" switches do not work. 	Steering switch signal B circuit malfunction. Refer to AV-391, "Diagnosis Procedure".	

RELATED TO HANDS-FREE PHONE (FOR MEXICO)

Symptoms	Check items	Probable malfunction location
Does not recognize cellular phone connection. (no connection is displayed on the display at the guide.)	Reneat the redistration of cellular phone	
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. 	Display control unit malfunction. Replace display control unit. Refer to AV-407, "Removal and Installation".
The other party's voice cannot be heard by hands-free phone. Check the "Voice Microphone Test" in Confirmation/Adjustment mode if sound is heard.		
Originating sound is not heard	Sound operation function is normal.	
by the other party with hands- free phone communication.	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to AV-380, "WITHOUT TELEMATICS SYSTEM: Diagnosis Procedure".

MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[INFINITI INTOUCH]

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Symptoms	Check items	Probable malfunction location
	Steering switch's "VOL UP", "VOL DOWN" and " " switches works, but " " switch does not work.	Steering switch signal A circuit malfunction. Refer to AV-389, "Diagnosis Procedure".
The system cannot be operated.	 The voice recognition can be controlled. Steering switch "" switch work, but "VOL UP", "VOL DOWN" and "" " switches do not work. 	Steering switch signal B circuit malfunction. Refer to AV-391, "Diagnosis Procedure".

RELATED TO VOICE CONTROL

Symptoms	Check items	Probable malfunction location
The voice cannot be controlled even if the voice control screen	Voice sounds at "Voice Microphone Test" of Confirmation/Adjustment mode.	Display control unit malfunction. Replace display control unit. Refer to AV-407, "Removal and Installation".
is displayed.	Voice does not sound at "Voice Micro- phone Test" of Confirmation/Adjustment mode.	Microphone circuit malfunction. Refer to AV-380, "WITHOUT TELEMATICS SYSTEM: Diagnosis Procedure".
The voice cannot be controlled (Voice control screen is not displayed).	 Hands-free phone system can be operated. Steering switch's "MENU UP", "MENU DOWN", " " " " " " " " " " " " " " " " " "	Steering switch signal A circuit malfunction. Refer to AV-389, "Diagnosis Procedure".

RELATED TO AUDIO

Symptoms	Check items	Probable malfunction location	
The disk cannot be removed.	_	Disk eject signal circuit malfunction. Refer to AV-378, "Diagnosis Procedure".	ı
No sound comes out or the level of the sound is low.	No sound from all speakers.	Without BOSE system Sound signal circuit malfunction. Refer to AV-384, "WITHOUT BOSE SYSTEM: Diagnosis Procedure".	J
		With BOSE system • Sound signal circuit malfunction. Refer to AV-385, "WITH BOSE SYSTEM: Diagnosis Procedure".	K
		 BOSE amp. power supply and ground circuit malfunction. Refer to <u>AV-371</u>, "BOSE AMP.: <u>Diagnosis Procedure"</u>. 	L
	Sound is not heard from woofer.	Sound signal (woofer) circuit malfunction.	M

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MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[INFINITI INTOUCH]

Symptoms	Check items	Probable malfunction location	
	Noise comes out from all speakers.	Without BOSE system Malfunction in display control unit. Malfunction in AV control unit.	
		With BOSE system Malfunction in display control unit. 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).	Without BOSE system Poor connector connection of speaker. Sound signal circuit malfunction. Refer to AV-384, "WITHOUT BOSE SYSTEM: Diagnosis Procedure". Malfunction in speaker. Poor installation of speaker (e.g. backlash and looseness) Malfunction in display control unit. Malfunction in AV control unit. With BOSE system Poor connector connection of speaker. Sound signal circuit malfunction. Refer to AV-385, "WITH BOSE SYSTEM: Diagnosis Procedure". Malfunction in speaker. Poor installation of speaker (e.g. backlash and looseness) Malfunction in display control unit. 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 generation external noises).	Antenna amp. ON signal circuit malfunction. Poor connector connection of antenna or antenna feeder.	

RELATED TO STEERING SWITCH

Symptoms	Probable malfunction location	
None of the steering switch operations work.	Steering switch malfunction. Replace steering wheel.	
Only specified switch cannot be operated.	 Refer to following. Models with vehicle speed sensitive P/S: <u>ST-32</u>, "Removal and Installation". Models with direct adaptive steering: <u>ST-134</u>, "Removal and Installation". 	
Steering switch's "", "MENU UP", "MENU DOWN", " " and "OK" switches do not work.	Steering switch signal A circuit malfunction. Refer to AV-389, "Diagnosis Procedure".	
Steering switch's "VOL UP", "VOL DOWN"and " (" " switches do not work.	Steering switch signal B circuit malfunction. Refer to AV-391, "Diagnosis Procedure".	

RELATED TO INTEGRAL SWITCH

NOTF:

Check that there is no malfunction of integral switch main body before performing a diagnosis.

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Symptoms	Check items	Probable malfunction location
	All switches cannot be operated. Integral switch display screen is displayed "MULTI AV" is displayed on system selection screen when the CONSULT is started.	AV communication circuit between display control unit and integral switch malfunction. Perform CONSULT self-diagnosis. Refer to AV-96, "CONSULT Function".
Integral switch and multifunction switch operation does not work.	All switches cannot be operated. Integral switch display screen is not displayed "MULTI AV" is displayed on system selection screen when the CONSULT is started.	Integral switch power supply and ground circuit malfunction. Refer to AV-372, "INTEGRAL SWITCH: Diagnosis Procedure".
	All switches cannot be operated. "MULTI AV" is not displayed on system selection screen when the CONSULT is initialized.	Display control unit power supply and ground circuit malfunction. Refer to AV-367, "DISPLAY CONTROL UNIT: Diagnosis Procedure".
	Only specified switch cannot be operated.	Integral switch or multifunction switch malfunction. Perform multifunction switch and preset switch self-diagnosis function. Refer to AV-83. "On Board Diagnosis Function".
Integral switch display screen is not displayed	Switches can be operated.	LVDS signal circuit between display control unit and integral switch.
	Switches cannot be operated.	Integral switch power supply and ground circuit malfunction. Refer to AV-372, "INTEGRAL SWITCH: Diagnosis Procedure".

RELATED TO EXTERNAL DATA INPUT BOX

NOTE

Check that there is no malfunction of external data input box main body before performing a diagnosis.

Symptoms	Probable malfunction location	
No voice sound is heard when AUX mode is selected.	AUX sound signal circuit between external data input box and AV control unit.	
Image is not displayed when AUX mode is selected.	 AUX image signal circuit between external data input box and AV control unit. Composite image signal circuit between AV control unit and display control unit. Refer to <u>AV-376</u>, "<u>Diagnosis Procedure</u>". 	
iPod [®] or USB memory can not be recognized.	USB harness malfunction. USB connector malfunction.	

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

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[INFINITI INTOUCH]

NORMAL OPERATING CONDITION

Description INFOID:000000012795676

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.
No image is displayed.	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" switch.
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 " vs² " switch on the steering switch, and speak a command after the tone sounds.
	8 seconds or more have passed after you pressed and released "w≨" 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 command can be recognized more easily.

Related to Item Choice

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[INFINITI INTOUCH]

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

Related to Telephone

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

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

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

RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD, 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, M4A) 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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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/M4A 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", ".M4A", ".mp3", ".wma", ".aac" or ".m4a" 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/M4A 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/M4A 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/M4A file has been given an extension of ".MP3", ".WMA", "AAC" ".M4A" ".mp3", ".wma", ".aac" or ".m4a", 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 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.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[INFINITI INTOUCH]

Symptom	Possible cause	Possible solution
The vehicle icon is not displayed in the correct position.	The vehicle was transported after the ignition switch was pressed off, for example, by a ferry or car transporter.	Drive the vehicle for a while on a road where GPS signals can be received.
	The position and direction of the vehicle icon may be incorrect depending on the driving environments and the levels of positioning accuracy of the navigation system.	This is not a malfunction. Drive the vehicle for a while to automatically correct the position and direction of the vehicle icon.
When the vehicle is traveling on a new road, the vehicle icon is located on another road nearby.	Because the new road is not stored in the map data, the system automatically places the vehicle icon on the nearest road available.	Updated road information will be included in the next version of the map data.
The screen does not switch to the night screen even after turning on the headlights.	The daytime screen was set the last time the headlights were turned on.	Set the screen to the night screen mode using <day night=""> when you turn on the headlights.</day>
The map does not scroll even when the vehicle is moving.	The current location map screen is not displayed.	Press "MAP".
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 calculation has not yet been performed.	Set the destination and perform route calculation.
Route information is not dis-	You are not driving on the suggested route.	Drive on the suggested route.
played.	Route guidance is set to off.	Turn on route guidance.
	Route information is not provided for certain types of roads (roads displayed in gray).	This is not a malfunction.
The auto reroute calculation (or detour calculation) suggests the same route as the one previously suggested.	Route calculations took priority conditions into consideration, but the same route was calculated.	This is not a malfunction.
A waypoint cannot be added.	Five waypoints are already set on the route, including ones that you have already passed.	A maximum of 5 waypoints can be set on the route. If you want to go to 6 or more waypoints, perform route calculations multiple times as necessary.
The suggested route is not displayed.	Roads near the destination cannot be calculated.	Reset the destination to a main or ordinary road, and recalculate the route.
	The starting point and destination are too close.	Set a more distant destination.
	The starting point and destination are too far away.	Divide your trip by selecting one or two intermediate destinations, and perform route calculations multiple times.
	There are time restricted roads (by the day of the week, by time) near the current vehicle location or destination.	Set [Use Time Restricted Roads] to off.

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NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[INFINITI INTOUCH]

Symptom	Possible cause	Possible solution
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.
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.	

DISPLAY CONTROL UNIT

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

REMOVAL AND INSTALLATION

DISPLAY CONTROL UNIT

Removal and Installation

INFOID:0000000012795677

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REMOVAL

CAUTION:

- Before replacing display control unit, perform "Read/Write Configuration" to save or print current vehicle specification. For details, refer to <u>AV-275</u>, "<u>Description</u>".
- Remove battery terminal and display 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 display control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.
- Downloaded applications are deleted when display control unit is replaced.
- 1. Remove the integral switch. Refer to AV-410, "Removal and Installation".
- 2. Remove the bracket screws.
- 3. Disconnect the harness connector from the display control unit.
- 4. Remove the bracket from display control unit.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to perform "Read/Write Configuration" when replacing display control unit. For details, refer to AV-275, "Description".

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AV CONTROL UNIT

Removal and Installation

INFOID:0000000012795678

REMOVAL

CAUTION:

- Before replacing AV control unit, perform "Read/Write Configuration" of display control unit to save or print current vehicle specification. For details, refer to <u>AV-276, "Description"</u>.
- 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.

- 1. Remove the integral switch. Refer to AV-410, "Removal and Installation".
- Remove the screws.
- Disconnect the harness connector from the AV control unit.
- 4. Remove the bracket screws, and then remove the AV control unit.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Be sure to perform "Read/Write Configuration" of display control unit when replacing AV control unit. For details, refer to AV-276, "Description".

[INFINITI INTOUCH]

NAVI CONTROL UNIT

Removal and Installation

INFOID:0000000012795679

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REMOVAL

CAUTION:

- Before replacing NAVI control unit, perform "Read/Write Configuration" of display control unit to save or print current vehicle specification. For details, refer to <u>AV-277, "Description"</u>.
- Remove battery terminal and NAVI 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 NAVI control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

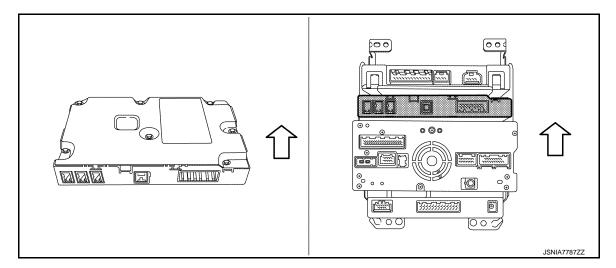
- 1. Remove the integral switch. Refer to AV-410, "Removal and Installation".
- Remove the screws.
- 3. Disconnect the harness connector from the NAVI control unit.
- 4. Remove the bracket screws, and then remove the NAVI control unit.

INSTALLATION

Installation is in the reverse order of removal.

NOTE:

Be careful not to install with the top and bottom facing in the wrong directions.



: Vehicle upper

CAUTION:

Be sure to perform "Read/Write Configuration" of display control unit when replacing NAVI control unit. For details, refer to AV-277, "Description".

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INTEGRAL SWITCH

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

INTEGRAL SWITCH

Removal and Installation

INFOID:0000000012795680

REMOVAL

Remove integral switch. Refer to IP-13, "Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

MULTIFUNCTION SWITCH

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

MULTIFUNCTION SWITCH

Removal and Installation

INFOID:0000000012795681

REMOVAL

- 1. Remove the console finisher assembly. Refer to <u>IP-24, "Removal and Installation"</u>.
- 2. Remove the screws.
- 3. Remove the multifunction switch.

INSTALLATION

Installation is in the reverse order of removal.

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EXTERNAL DATA INPUT BOX

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

EXTERNAL DATA INPUT BOX

Removal and Installation

INFOID:0000000012795682

REMOVAL

- 1. Remove the console box assembly. Refer to IP-24. "Removal and Installation".
- 2. Release the pawls and remove the external data input box from the console upper finisher.

INSTALLATION

Installation is in the reverse order of removal.

BOSE AMP.

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

BOSE AMP.

Removal and Installation

INFOID:0000000012795683

REMOVAL

- 1. Remove the trunk front finisher. Refer to INT-53, "TRUNK FRONT FINISHER: Removal and Installation".
- 2. Remove the rear parcel shelf finisher. Refer to INT-37, "Removal and Installation".
- 3. Remove the BOSE amp. mounting bolts.
- 4. Disconnect the connectors to remove the BOSE amp. from the rear parcel shelf (trunk room side).

INSTALLATION

Install in the reverse order of removal.

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FRONT SQUAWKER

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

FRONT SQUAWKER

Removal and Installation

INFOID:0000000012795684

REMOVAL

- 1. Remove the upper ventilator grille. Refer to IP-13, "Removal and Installation".
- 2. Remove the screws and disconnect the connector to remove the front squawker.

INSTALLATION

Installation is in the reverse order of removal.

CENTER SQUAWKER

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

CENTER SQUAWKER

Removal and Installation

INFOID:0000000012795685

REMOVAL

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

INSTALLATION

Installation is in the reverse order of removal.

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TWEETER

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

TWEETER

Removal and Installation

INFOID:0000000012795686

REMOVAL

- 1. Remove the front door sash inner cover. Refer to <u>INT-17</u>, "FRONT DOOR SASH INNER COVER : Removal and Installation".
- 2. Remove the screws to remove the tweeter from the front door sash inner cover.

INSTALLATION

Installation is the reverse order of removal.

FRONT DOOR SQUAWKER

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

FRONT DOOR SQUAWKER

Removal and Installation

INFOID:0000000012795687

REMOVAL

- 1. Remove the front door finisher. Refer to INT-14, "FRONT DOOR FINISHER: Removal and Installation".
- 2. Remove the screws and remove the front door squawker from front door finisher.

INSTALLATION

Install in the reverse order of removal.

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FRONT DOOR WOOFER

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

FRONT DOOR WOOFER

Removal and Installation

INFOID:0000000012795688

REMOVAL

- 1. Remove the front door finisher. Refer to INT-14, "FRONT DOOR FINISHER: Removal and Installation".
- 2. Disconnect the connector and remove the screws and remove the front door woofer.

INSTALLATION

Install in the reverse order of removal.

REAR DOOR SPEAKER

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

REAR DOOR SPEAKER

Removal and Installation

INFOID:0000000012795689

REMOVAL

- 1. Remove the rear door finisher. Refer to INT-19, "REAR DOOR FINISHER: Removal and Installation".
- 2. Disconnect the connector and remove the screws to remove the rear door speaker.

INSTALLATION

Install in the reverse order of removal.

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SATELLITE SPEAKER

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

SATELLITE SPEAKER

Removal and Installation

INFOID:0000000012795690

REMOVAL

- 1. Remove the trunk upper finisher. Refer to INT-54, "TRUNK UPPER FINISHER: Removal and Installation".
- 2. Remove the rear parcel shelf finisher. Refer to INT-37, "Removal and Installation".
- 3. Remove the satellite speaker mounting screws.
- 4. Disconnect the connector to remove the satellite speaker from the rear parcel shelf.

INSTALLATION

Install in the reverse order of removal.

REAR WOOFER

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

REAR WOOFER

Removal and Installation

INFOID:0000000012795691

REMOVAL

- Remove the trunk upper finisher. Refer to <u>INT-54, "TRUNK UPPER FINISHER: Removal and Installation"</u>.
- 2. Remove the rear parcel shelf finisher. Refer to INT-37, "Removal and Installation".
- 3. Remove the rear woofer mounting screws.
- 4. Disconnect the connector to remove the rear woofer from the rear parcel shelf.

INSTALLATION

Install in the reverse order of removal.

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FRONT DOOR SPEAKER

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

FRONT DOOR SPEAKER

Removal and Installation

INFOID:0000000012795692

REMOVAL

- 1. Remove the front door finisher. Refer to INT-14, "FRONT DOOR FINISHER: Removal and Installation".
- 2. Disconnect the connector and remove the screws to remove the front door speaker.

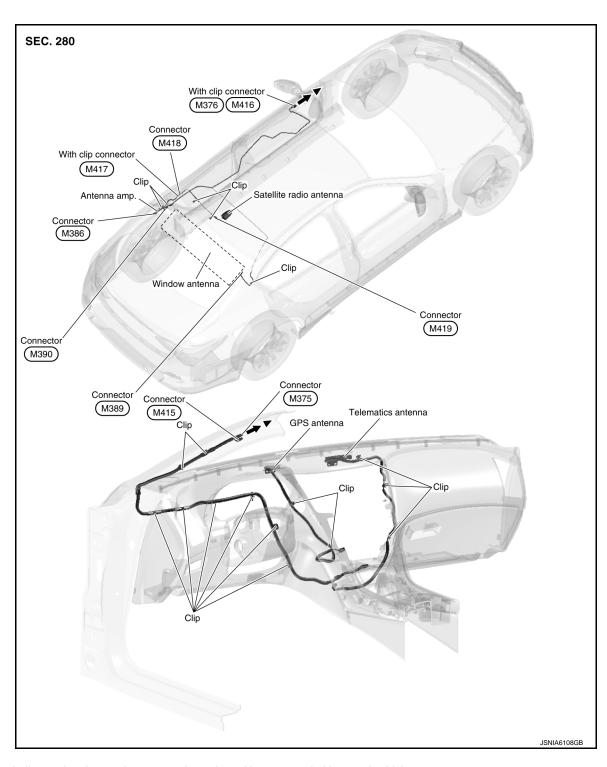
INSTALLATION

Install in the reverse order of removal.

[INFINITI INTOUCH]

ANTENNA FEEDER

Feeder Layout



▲: Indicates that the part is connected at points with same symbol in actual vehicle.

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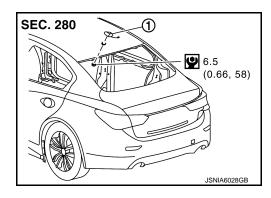
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SATELLITE RADIO ANTENNA

Exploded View

(1) Satellite radio antenna



Removal and Installation

INFOID:0000000012795695

REMOVAL

- 1. Remove the headlining assembly. Refer to INT-46, "Removal and Installation".
- 2. Remove the nut and disconnect the connector to remove the satellite radio antenna from the roof panel.

INSTALLATION

Installation is the reverse order of removal.

CAUTION:

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

ANTENNA AMP.

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

ANTENNA AMP.

Removal and Installation

INFOID:0000000012795696

REMOVAL

- Remove the rear pillar finisher (LH). Refer to <u>INT-35</u>, "<u>REAR PILLAR FINISHER</u>: <u>Removal and Installation</u>".
- 2. Remove the screw and disconnect the connector to remove the antenna amp.

INSTALLATION

Installation is the reverse order of removal.

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GPS ANTENNA

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

GPS ANTENNA

Removal and Installation

INFOID:0000000012795697

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

STEERING SWITCH

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

STEERING SWITCH

Removal and Installation

INFOID:0000000012795698

Refer to <u>ST-32, "Removal and Installation"</u> (hydraulic pump electric P/S), <u>ST-81, "Removal and Installation"</u> (electric power steering) or <u>ST-134, "Removal and Installation"</u> (direct adaptive steering).

NOTE:

Always remove steering switch together with steering wheel.

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MICROPHONE

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

MICROPHONE

Removal and Installation

INFOID:0000000012795699

NOTE:

The microphone is integrated with the front microphone.

REMOVAL

- 1. Remove the map lamp assembly. Refer to INL-74, "MAP LAMP: Removal and Installation".
- 2. Disconnect the microphone and front microphone connector from the map lamp assembly.
- 3. Release the microphone and front microphone pawls, then remove the microphone assembly.

INSTALLATION

Installation is in the reverse order of removal.

ACTIVE NOISE CONTROL UNIT

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

ACTIVE NOISE CONTROL UNIT

Removal and Installation

INFOID:0000000013498138

REMOVAL

- Remove the trunk upper finisher. Refer to <u>INT-54</u>, "TRUNK UPPER FINISHER: Removal and Installation".
- 2. Remove the rear parcel shelf finisher. Refer to INT-37, "Removal and Installation".
- 3. Remove the active noise control unit mounting bolts.
- 4. Disconnect the connectors to remove the active noise control unit from the rear parcel shelf (trunk room side).

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INSTALLATION

Install in the reverse order of removal.

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FRONT MICROPHONE (ACTIVE NOISE CANCELLATION)

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

FRONT MICROPHONE (ACTIVE NOISE CANCELLATION)

Removal and Installation

INFOID:0000000013498120

NOTE:

The front microphone is integrated with the microphone.

REMOVAL

- 1. Remove the map lamp assembly. Refer to INL-74, "MAP LAMP: Removal and Installation".
- 2. Disconnect the front microphone and microphone connector from the map lamp assembly.
- 3. Release the front microphone and microphone pawls, then remove the microphone assembly.

INSTALLATION

Installation is in the reverse order of removal.

REAR MICROPHONE (ACTIVE NOISE CANCELLATION)

< REMOVAL AND INSTALLATION >

[INFINITI INTOUCH]

REAR MICROPHONE (ACTIVE NOISE CANCELLATION)

Removal and Installation

INFOID:0000000013498121

REMOVAL

- 1. Remove the head lining assembly. Refer to INT-46, "Removal and Installation".
- 2. Disconnect the microphone connector and release the microphone pawls, then remove the microphone.

INSTALLATION

Installation is the reverse order of removal.

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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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "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 or batteries, and wait at least 3 minutes before performing any service.

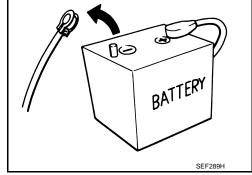
Precautions for Removing Battery Terminal

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When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE : 4 minutes V9X engine : 4 minutes : 20 minutes YD25DDTi D4D engine : 2 minutes YS23DDT HR09DET : 12 minutes : 4 minutes HRA2DDT : 12 minutes YS23DDTT : 4 minutes K9K engine : 4 minutes ZD30DDTi : 60 seconds : 60 seconds M9R engine : 4 minutes ZD30DDTT R9M engine : 4 minutes



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.

 After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.
 NOTE:

PRECAUTIONS

< PRECAUTION >

[AROUND VIEW MONITOR SYSTEM]

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
- Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
- Driving for 30 minutes or more on a steep slope.
- 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.

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.

Precaution for Trouble Diagnosis

INFOID:0000000012795703

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AV COMMUNICATION SYSTEM

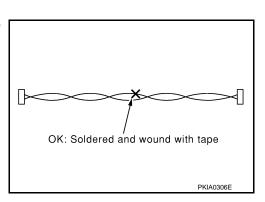
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

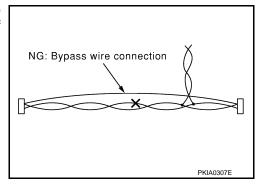
INFOID:0000000012795704

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

Commercial Service Tools

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	Tool	Description
Power tool	PBIC0191E	Loosening screws

Lubricant or/and Sealant

INFOID:0000000012795706

Name	Description	Note
Primer (Sumitomo 3M K520 or equivalent)	Primer for attaching sonar sensor holder to bumper	Sumitomo 3M Limited

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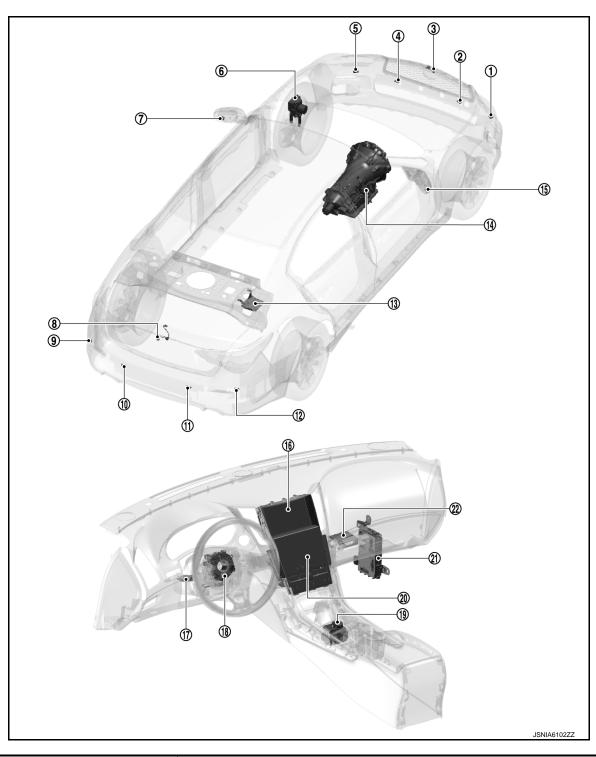
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

VR30DDTT ENGINE MODELS



No.	Component	Function
1	Corner sensor front RH	Refer to AV-440, "Sonar Sensor".
2	Center sensor front RH	Refer to AV-440, "Sonar Sensor".

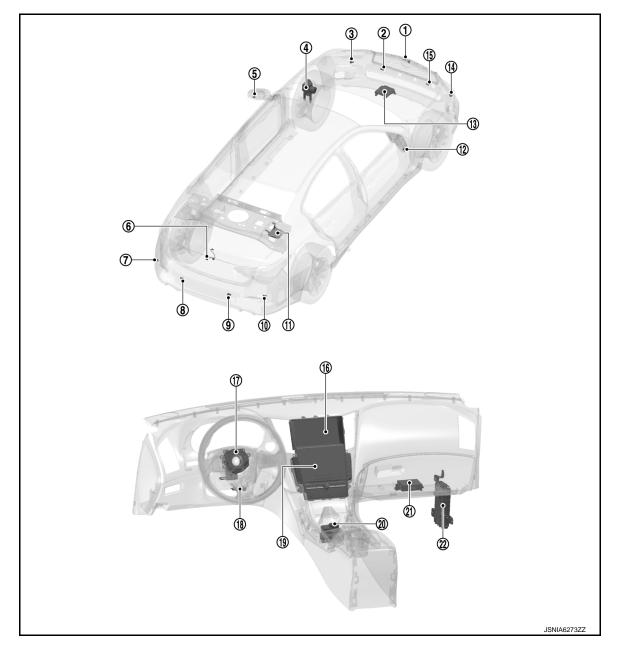
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

No.	Component	Function
3	Front camera	Refer to AV-438, "Front Camera".
4	Center sensor front LH	Refer to AV-440, "Sonar Sensor".
5	Corner sensor front LH	Refer to AV-440, "Sonar Sensor".
6	ABS actuator and electric unit (control unit)	Transmits the following signals to the display control unit. • Vehicle speed signal • Rear LH wheel speed signal • Rear RH wheel speed signal Refer to BRC-10, "Component Parts Location", for detailed installation location.
7	Side camera LH	Refer to AV-439, "Side Camera".
8	Rear camera	Refer to AV-439, "Rear Camera".
9	Corner sensor rear LH	Refer to AV-440, "Sonar Sensor".
10	Center sensor rear LH	Refer to AV-440, "Sonar Sensor".
11)	Center sensor rear RH	Refer to AV-440, "Sonar Sensor".
12	Corner sensor rear RH	Refer to AV-440, "Sonar Sensor".
13	Around view monitor control unit	Refer to AV-438, "Around View Monitor Control Unit".
14)	ТСМ	Transmits the shift position signal to the around view monitor control unit. Refer to TM-13, "A/T CONTROL SYSTEM: Component Parts Location", for detailed installation location.
15	Side camera RH	Refer to AV-439, "Side Camera".
16	Display control unit	 Camera image signal that is received from around view monitor control unit is displayed in the display. Transmits the following signals to the around view monitor control unit. Camera switch signal
17	Buzzer	Refer to AV-440, "Buzzer".
18	Steering angle sensor	Refer to AV-440, "Steering Angle Sensor".
19	Multifunction switch	When the "CAMERA" switch is pressed, the push switch B signal is transmitted to integral switch.
20	Integral switch	Push switch B signal and camera switch signal are transmitted from integral switch to the display control unit.
21)	всм	Transmits the following signals to the around view monitor control unit. • Door switch signal • Trunk switch signal Refer to BCS-5, "BODY CONTROL SYSTEM: Component Parts Location", for detailed installation location.
22	Sonar control unit	Refer to AV-440, "Sonar Control Unit".

2.0L TURBO GASOLINE ENGINE MODELS



No.	Component	Function
1	Front camera	Refer to AV-438, "Front Camera".
2	Center sensor front LH	Refer to AV-440, "Sonar Sensor".
3	Corner sensor front LH	Refer to AV-440, "Sonar Sensor".
4	ABS actuator and electric unit (control unit)	Transmits the following signals to the display control unit. • Vehicle speed signal • Rear LH wheel speed signal • Rear RH wheel speed signal Refer to BRC-10 , "Component Parts Location", for detailed installation location.
(5)	Side camera LH	Refer to AV-439, "Side Camera".
6	Rear camera	Refer to AV-439, "Rear Camera".
7	Corner sensor rear LH	Refer to AV-440, "Sonar Sensor".
8	Center sensor rear LH	Refer to AV-440, "Sonar Sensor".
9	Center sensor rear RH	Refer to AV-440, "Sonar Sensor".

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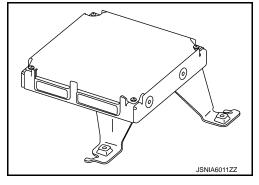
< SYSTEM DESCRIPTION >

No.	Component	Function
10	Corner sensor rear RH	Refer to AV-440, "Sonar Sensor".
11)	Around view monitor control unit	Refer to AV-438, "Around View Monitor Control Unit".
12	Side camera RH	Refer to AV-439, "Side Camera".
13	ECM	Transmits the shift position signal to the around view monitor control unit. Refer to EC4-25 , "ENGINE CONTROL SYSTEM: Component Parts Location", for detailed installation location.
14	Corner sensor front RH	Refer to AV-440, "Sonar Sensor".
15	Center sensor front RH	Refer to AV-440, "Sonar Sensor".
16	Display control unit	Camera image signal that is received from around view monitor control unit is displayed in the display. Transmits the following signals to the around view monitor control unit. Camera switch signal
17	Steering angle sensor	Refer to AV-440, "Steering Angle Sensor".
18	Buzzer	Refer to AV-440, "Buzzer".
19	Integral switch	Push switch B signal and camera switch signal are transmitted from integral switch to the display control unit.
20	Multifunction switch	When the "CAMERA" switch is pressed, the push switch B signal is transmitted to integral switch.
21	Sonar control unit	Refer to AV-440, "Sonar Control Unit".
22	всм	Transmits the following signals to the around view monitor control unit. • Door switch signal • Trunk switch signal Refer to BCS-5, "BODY CONTROL SYSTEM: Component Parts Location", for detailed installation location.

Around View Monitor Control Unit

INFOID:0000000012795708

- The around view monitor control unit is installed at the trunk room.
- Necessary signals are transmitted/received to/from control unit via CAN communication.
- Necessary signals are transmitted/received to/from display control unit via AV communication.
- Camera image signals received from each camera are converted/ synthesized in the around view monitor control unit and transmitted to the display control unit.
- Vehicle width guide lines, predicted course line, vehicle front guiding line and vehicle side line, tire icon, and vehicle icon are rendered with the around view monitor control unit and combined with camera image.

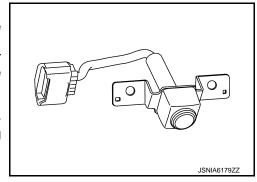


Front Camera

- The front camera is installed to the front grille.
- Super-small CMOS camera (color) using CMOS^{*} for the image pickup element is adopted.
- Power for the camera is supplied from the around view monitor control unit, and the image at the front of the vehicle is sent to the around view monitor control unit.

NOTE:

*: "CMOS" is abbreviation of Complementary Metal Oxide Semiconductor, and features low power consumption and high speed reading rate of electric charge.



Specification

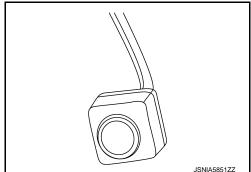
Image pickup element	1/3.8-inch CMOS image sensor
Effective number of pixels	Approx. 1280,000 pixels (1296 × 985)
Minimum brightness	2 lx
Angle of view	H: 154° V: 96°

Side Camera

- The side camera is installed to the door mirror.
- Super-small CMOS camera (color) using CMOS^{*} for the image pickup element is adopted.
- Power for the camera is supplied from the around view monitor control unit, and the image at the side of the vehicle is sent to the around view monitor control unit.

NOTE:

*: "CMOS" is abbreviation of Complementary Metal Oxide Semiconductor, and features low power consumption and high speed reading rate of electric charge.



Specification

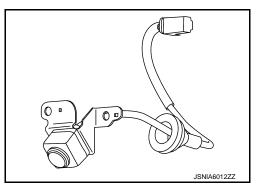
Image pickup element	1/3.8-inch CMOS image sensor
Effective number of pixels	Approx. 1280,000 pixels (1296 × 985)
Minimum brightness	2 lx
Angle of view	H: 154° V: 96°

Rear Camera

- The rear camera is installed to the trunk finisher.
- Super-small CMOS camera (color) using CMOS^{*} for the image pickup element is adopted.
- With the mirror processing function, a mirror image is sent as if it is viewed by a rear view mirror.
- Power for the camera is supplied from the around view monitor control unit, and the image at the rear of the vehicle is sent to the around view monitor control unit.

NOTE:

*: "CMOS" is abbreviation of Complementary Metal Oxide Semiconductor, and features low power consumption and high speed reading rate of electric charge.



Specification

Image pickup element	1/3.8-inch CMOS image sensor
Effective number of pixels	Approx. 1280,000 pixels (1296 × 985)
Minimum brightness	2 lx
Angle of view	H: 154° V: 96°
Image	With the mirror processing function

Revision: November 2016 **AV-439** 2016 Q50

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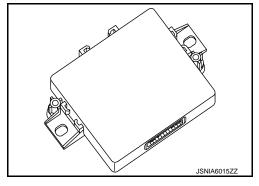
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Sonar Control Unit

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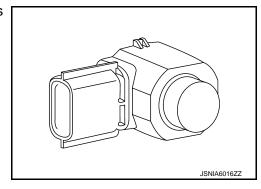
- Sonar control unit is located on the passenger instrument lower panel.
- Necessary signals are transmitted/received to/from control unit via CAN communication.
- The tone outputs by inputting the sensor signal from sonar sensors. The tone outputs the each speaker.
- Sensor signal that corresponds to the detected distance to an obstacle is transmitted to around view monitor control unit via CAN communication, and the sonar indicator is displayed on display control unit. Refer to AV-441, "System Description".



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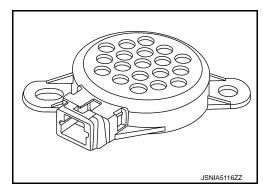
Sonar Sensor

When a distance from an obstacle is detected, a distance signal is transmitted to the sonar control unit.



Buzzer (INFOID:000000012795714

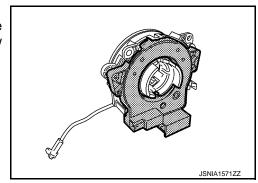
The MOD buzzer sounds with the signal from the sonar control unit.



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Steering Angle Sensor

- Steering angle sensor is installed to the spiral cable.
- Steering angle sends the steering signal necessary for predictive course line of the front or rear view monitor to the around view monitor control unit via CAN communication.



System Description

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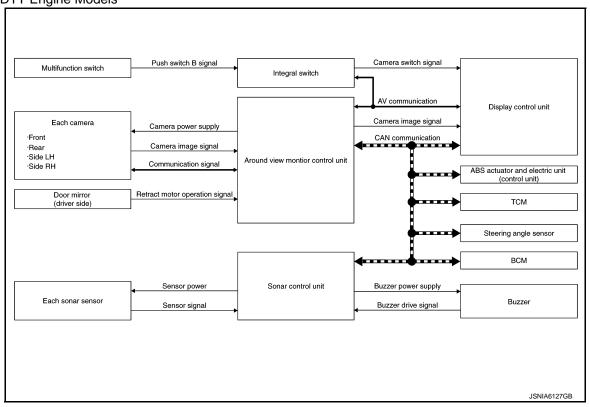
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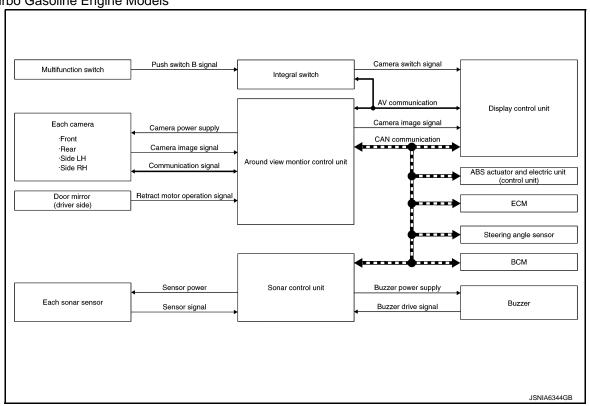
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SYSTEM DIAGRAM

VR30DDTT Engine Models



2.0L Turbo Gasoline Engine Models



< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

Around View Monitor Control Unit Input Signal (CAN Communication)

Transmit unit	Signal name
Steering angle sensor	Steering angle sensor signal
TCM (VR30DDTT)	Chite a sixteen since of
ECM (2.0L turbo gosoline engine)	Shift position signal
	Vehicle speed signal
ABS actuator and electric unit (control unit)	Rear LH wheel speed signal
	Rear RH wheel speed signal
ВСМ	Door switch signal
	Trunk switch signal
Sonar control unit	Sonar status signal
Display control unit	Camera switch signal

Around View Monitor Control Unit Output Signal (CAN Communication)

Transmit unit	Signal name
Display control unit	View change signal
Sonar control unit	MOD beep sound output request signal

Sonar Control Unit Input Signal (CAN Communication)

Transmit unit	Signal name	
TCM (VR30DDTT)	Shift position signal	
ECM (2.0L turbo gosoline engine)	Shift position signal	
ABS actuator and electric unit (control unit)	Vehicle speed signal	

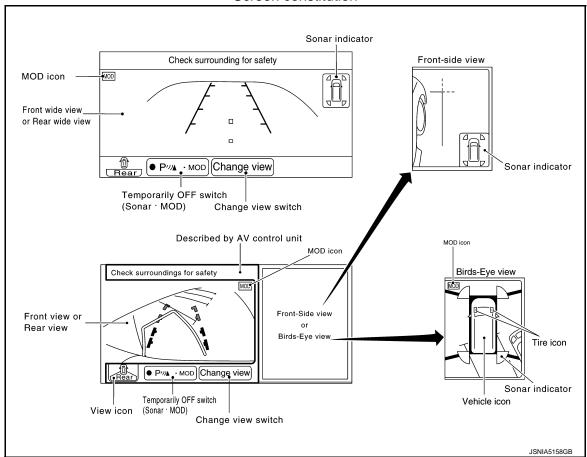
DESCRIPTION

- This system is equipped with wide-angle high-resolution cameras on the front and rear of the vehicle and on both right and left door mirrors. The images from front view, rear view, front-side view RH side, and birds-eye view that shows the view from the top of the vehicle are displayed to monitor the vehicle surroundings.
- Around view monitor control unit cuts out and expands the image received from each camera to create each view.
- The sonar indicator is displayed on display (superimposed on the camera image) in combination with the camera assistance sonar system to warm of the approach of an obstacle.
- Camera image is displayed on the display when an obstacle is detected by sonar system.
- In front view and rear view, the vehicle width, distance lines and predictive course lines are superimposed and displayed. In front-side view, the vehicle distance guiding line and vehicle width guiding line are displayed.
- The Birds-Eye view converts the images from 4 cameras into the overhead view and displays the status of the vehicle on display. The vehicle icon and sonar indicator that are displayed on the Birds-Eye view display are rendered by around view monitor control unit.
- Moving Object Detection (MOD) is adopted that detects moving objects according to camera image and notifies the detection result to the driver.
- Tire icon is adopted for Birds-Eye view image.
- Front/rear wide view function is adopted. Visibility for the left and right that contains invisible area is improved.

AROUND VIEW MONITOR SCREEN

- Around view monitor combines and displays the travel direction view and "Birds-Eye view", "Front-Side view" and then it displays the sonar indicator on the "Birds-Eye view", "Front-Side view", "Rear wide view".
- Display control unit renders the "Change View" switch, view icon, warning message on display.

Screen constitution



OPERATION DESCRIPTION

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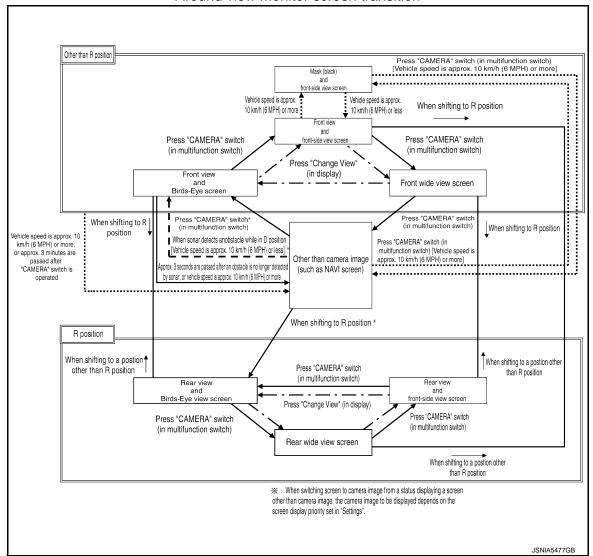
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Around view monitor screen transition



- Around view monitor is displayed on the display when "CAMERA" switch is pressed, when shifting position is reverse, or when an obstacle is detected by sonar system.
- Birds-Eye view, Front-side view, and front/rear wide view can be switched by "Change View" switch (touch switch) or "CAMERA" switch, while around view monitor is displayed.
- Priority of view to be displayed can be set by "Settings" screen.
- While shift position is other than reverse, around view monitor is cancelled when approximately 3 minutes
 are passed after "CAMERA" switch is pressed, or when vehicle speed is approximately 10 km/h (6 MPH) or
 more. The screen returns to the screen before displaying around view monitor.
- Setting of Moving Object Detection (MOD) and sonar can be switched ON/OFF by temporary OFF switch of display control unit. (Temporary OFF)
- In temporary OFF, around view monitor is cancelled. Temporary OFF is cancelled when around view monitor is displayed once again. Sonar and MOD are switched to operation-ready status
- In permanent OFF, MOD and sonar are not operative until MOD and sonar are switched to ON by "Settings" screen.
- In Birds-Eye view, an enhanced boundary is displayed on the image indicating the invisible area and clearly
 indicating the boundary of the 4 cameras. The invisible area is displayed in yellow when Birds-Eye view is
 displayed after the ignition switch is turned ON.
- In D position, front sonar can detect an obstacle while camera image is not displayed on display control unit.
 Screen is switched to camera image when an obstacle is detected.
- If information of camera and information written to around view monitor control unit are not the same, error indicator of applicable camera position is displayed when Birds-Eye view is displayed.
- When "CAMERA" switch of multifunction switch is pressed, it receives camera switch signal from display control unit via AV communication.

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

- When around view monitor control unit receives camera switch signal, around view monitor control unit reads the image signal from each camera.
- When around view monitor control unit receives reverse signal, while shift position is R position, around view monitor control unit reads image signal from each camera.
- When around view monitor control unit reads image signal from each camera, it cuts out the required screen
 for each view, superimposes camera image, vehicle icon, guiding lines, predicted course line, "MOD" icon,
 and sonar indicator, and then outputs them to display control unit.

Front View

- The front view image is from the front camera.
- When the selector lever is in any position other than the reverse position, the front view is displayed by
 pressing the "CAMERA" switch. It improves the visibility of obstacles in front of the vehicle and helps driving
 by the images displayed from Birds-Eye view and Front-Side view. The front wide view function allows the
 display of an image with a 180° horizontal angle.
- Display the vehicle width guiding line and vehicle distance guiding line in front view and display the predictive course line according to the steering angle.
- If the steering angle is within approximately 90 degrees, the predictive course lines on the left/right side are displayed. If the steering angle is exceeding approximately 90 degrees, only the predictive course line on the outside (in the opposite side of steering direction) is displayed.
- Around view monitor control unit is connected to the steering angle sensor and receives the steering angle signal via CAN communication.
- Around view monitor control unit controls the direction and distance of the predictive course line according to the sensor signal from steering angle sensor.

Predicted course line Vehicle width guiding line Vehicle distance guiding line Green: Approx. 3 m (9.84 tf) Green: Approx. 2 m (6.56 tf) Yellow: Approx. 1 m (3.28 tf) Red: Approx. 0.5 m (1.64 tf) JSNIA0770GB

Rear View

- The rear view image is from the rear camera.
- When the selector lever is in the reverse position, the rear view is displayed. Backing and parking are improved by the images from Birds-Eye view and Front-Side view. The rear wide view function allows the display of an image with a 180° horizontal angle.
- Display the vehicle width guiding line and vehicle distance guiding line in Rear view and display the predictive course line according to the steering angle (except when using the rear wide view function).
- The predictive course line is not displayed at the steering neutral position.
- Around view monitor control unit is connected to the steering angle sensor and receives the steering angle signal via CAN communication.
- Around view monitor control unit controls the direction and distance of predictive course line according to the sensor signal from steering angle sensor.

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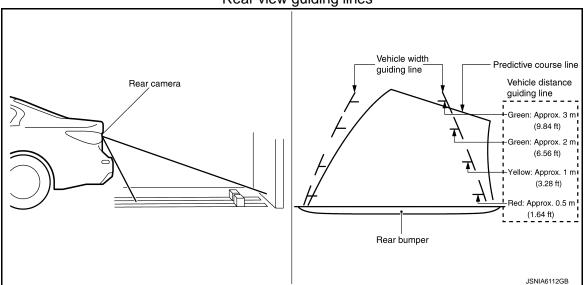
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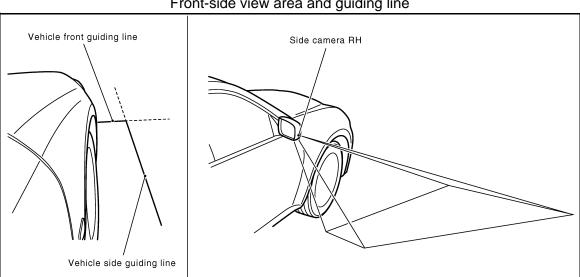
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Rear view guiding lines



Front-side View

- The front-side view image is from the side camera RH.
- In Front-Side view, display the vehicle distance guiding line and vehicle width guiding line.



Front-side view area and guiding line

Birds-eye View

- The image from the 4 cameras is cut out and converted into the overhead view, and the surroundings of the vehicle is displayed in birds-eye view.
- In Birds-Eye view, the invisible area is displayed on the image to specify the boundary of the 4 cameras.
- The invisible area is displayed in yellow in the Birds-Eye view after turning the ignition switch ON as an information for the user. (OFF setting can be performed)

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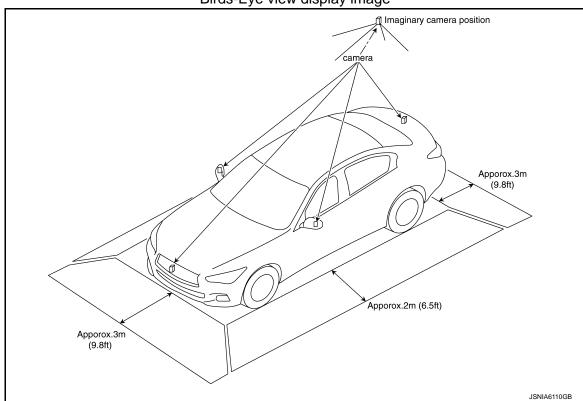
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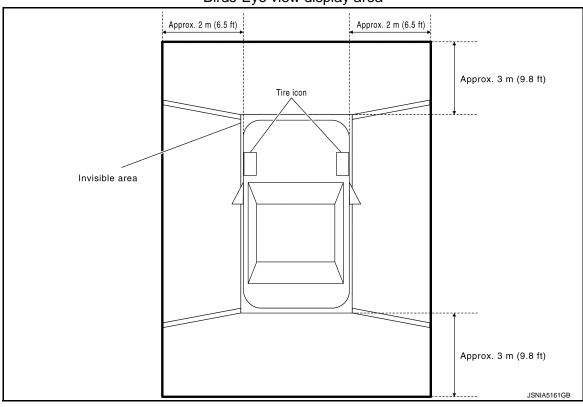
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Birds-Eye view display image



Birds-Eye view display area



Moving Object Detection (MOD)

- Moving Object Detection (MOD) is a function that notifies the driver of the presence of moving objects in the
 area around the vehicle. MOD detects moving objects from camera image, illuminates frame of view in yellow whenever "MOD" icon is displayed in blue, and sounds buzzer connected to sonar control unit.
- MOD detects moving objects while camera image is displayed on display control unit.
- Around view monitor control unit performs the following process when moving objects are detected.
- Superimposes yellow frame line on camera image signal and outputs them to display control unit.

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

- Transmits MOD beep sound output request signal to sonar control unit via CAN communication.
- Sonar control unit that receives the MOD beep sound output request signal from around view monitor control unit, and outputs buzzer drive signal to buzzer.
- Around view monitor control unit detects moving objects from camera image according to an image recognition method called optical flow.
- MOD does not detect a background as a moving object when the vehicle moves (when whole screen moves), but detects a moving object when an actual moving object is displayed on screen.
- MOD can be set to temporary OFF or permanent OFF by the following operation.
- temporary off: MOD is switched to off with a switch on the display control unit (touch switch) while camera image is displayed on display control unit.
- permanent off: MOD is switched to off by "Settings".
- Color of "MOD" icon indicates whether or not MOD is operative. "MOD" icon is displayed as shown in the following table. when MOD is operative, "MOD" icon is displayed in blue. when MOD is not operative, "MOD" icon is displayed in gray. MOD icon is not displayed when MOD is off (permanent off) by "Settings", or when MOD is off (temporary off) by switch of display control unit (touch switch).

View			Shift position	
		P or N position	D position	R position
			"MOD" icon display	
Diedo Evo view and receview	Birds-Eye view	Blue		Gray
Birds-Eye view and rear view	Rear view	Gray	_	Blue
Pirdo Evo view and front view	Birds-Eye view	Blue	Gray	_
Birds-Eye view and front view	Front view	Gray	Blue	
Cide view and rear view	Side view	×		×
Side view and rear view	Rear view	Gray	_	Blue
Side view and front view	Side view	×	×	
Side view and front view	Front view	Gray	Blue	_
Rear wide view	1	Gray	_	Blue
Front wide view		Gray	Blue	_

^{×:} icon is not displayed.

MOD illuminates frame of view in yellow and sounds buzzer, when any of the conditions in the following table
are satisfied.

Operation Condition		View where MOD is opera-
Shift position Vehicle speed		tive
P or N position	0 km/h	Birds-Eye view
D position	0 km/h (0 MPH) or more - less than 8 km/h (5 MPH)	Front view Front wide view
R position	0 km/h (0 MPH) or more - less than 8 km/h (5 MPH)	Rear view Rear wide view

MOD does not operate or stops operation when any of the conditions in the following table are satisfied.

Operation stop condition	Note	
Door open	 MOD does not stop operation for front view and front wide view. Operation stops for rear view and rear wide view while back door is open. Operation stops for Birds-Eye view when any door is open. 	
Door mirror expanding/retract- ing	Expanding/retracting status of door mirror is judged according to operation signal of door mirror motor transmitted from door mirror (driver side) to around view monitor control unit.	

Tire Icon

^{—:} view is not displayed in each shift position (D position and R position).

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

- Tire icon is adopted for Birds-Eye view screen.
- Tire icon is a function that notifies the steered direction of front tire to the driver and assists the driving.
- In tire icon, around view monitor control unit superimposes steering angle information to camera image and outputs camera image signal to display control unit.
- Around view monitor control unit judges steering angle according to steering signal received from steering angle sensor via CAN communication.

CAMERA IMAGE OPERATION PRINCIPLE

- If the information writing to around view monitor control unit and the information from the camera are not
 matched, the applicable camera position is indicated as an error on the Birds-Eye view display. (Calibration
 operation is necessary when replacing each camera or when replacing around view monitor control unit.)
- Around view monitor control unit receives the camera switch signal from display control unit via AV communication by pressing the "CAMERA" switch of multifunction switch.
- Around view monitor control unit that receives the camera switch signal supplies the power to each camera and inputs the camera image from each camera.
- When the selector lever is in the reverse position, around view monitor control unit receives the reverse signal, supplies the power to each camera, and inputs the camera image from each camera.
- Around view monitor control unit that receives the camera image signal from each camera cuts out the required screen for each view, superimposes the camera image, vehicle icon, guiding lines, sonar indicator, "MOD" icon, and outputs them to the display unit.

CAMERA ASSISTANCE SONAR FUNCTION

- Sonar sensors are installed on front bumper and rear bumper. When an obstacle is detected while around
 view monitor is displayed, a sonar indicator display and buzzer sound notify the driver of the proximity of an
 obstacle. When an obstacle is detected while around view monitor is not displayed, around view monitor
 screen is displayed automatically, and then notification is similarly as per the display and buzzer sound.
- Approaching distance between bumper and obstacle is displayed in 3 stages according to the color of the sonar indicator in display and blinking cycle of indicator.
- Warning by buzzer sound notifies distance to obstacle according to a 3-stage cycle.

System Operation Description

- Sonar control unit receives shift position signal from TCM (VR30DDTT) or ECM (2.0L gasoline engine) and vehicle speed signal from ABS actuator control unit via CAN communication, and controls ON/OFF of sonar system.
- Sonar control unit transmits detection signal and detection distance signal to around view monitor via CAN
 communication, according to signal from corner sensor depending on conditions as shown in the following
 table. Around view monitor displays the applicable sonar indicator.

Sonar system operation condition		Sonar operation		
Shift position	Vehicle speed	Obstacle	Sonar indicator	Buzzer
R position	Less than 10 km/h (6 MPH)	Yes	Detection status is displayed	Yes
D position	Less than 10 km/h (6 MPH)	Yes	Detection status is displayed	Yes
P or N position	Less than 10 km/h (6 MPH)	Yes	Detection status is displayed*	None
_	10 km/h (6 MPH) or more	Yes	Not displayed	None

^{*:} Only when camera image is displayed.

- When sonar is OFF in "Settings", sonar OFF display is displayed. Sonar OFF display is a function that displays frame in orange on the 4 corners of vehicle icon on Birds-Eye view to notify user of sonar OFF status. When sonar is switched to OFF by "Settings", sonar OFF display is only displayed for rear side of vehicle icon
- Sonar control unit is equipped with diagnosis function. Corner sensor malfunction and sensor harness open circuit can be detected. Malfunction status is transmitted to around view monitor control unit. Sonar OFF status is displayed and notified to the user.

Obstacle Detection Distance

- Sonar control unit switches output of sonar indicator and buzzer in 3 stages according to obstacle detection distance from corner sensor.
- Sonar control unit can change setting of obstacle detection distance in 3 stages.
- Sonar control unit can change setting of buzzer volume in 3 stages.

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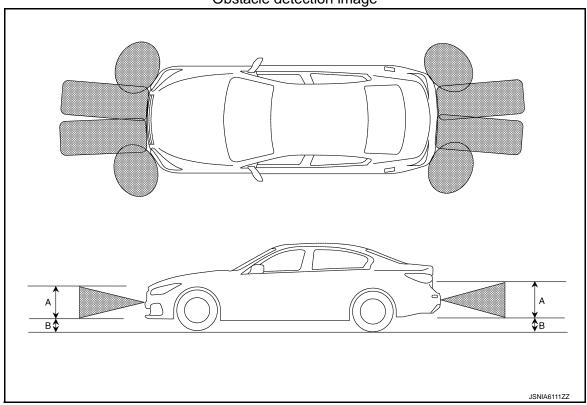
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Revision: November 2016 AV-449 2016 Q50

Obstacle detection image



A. Approx. 50 cm (19.69 in)

B. Approx. 15 cm (5.91 in)

Detection distance (default value)

Detection dictance (detadat raide)		
Warning item	Corner sensor	Center sensor
First warning	_	60 - 100 cm (23.6 - 39.3 in)
Second warning	50 - 60 cm (19.6 - 23.6 in)	50 - 60 cm (19.6 - 23.6 in)
Third warning	30 - 50 cm (11.8 - 19.6 in)	30 - 50 cm (11.8 - 19.6 in)
Fourth warning	Less than 30 cm (11.8 in)	Less than 30 cm (11.8 in)

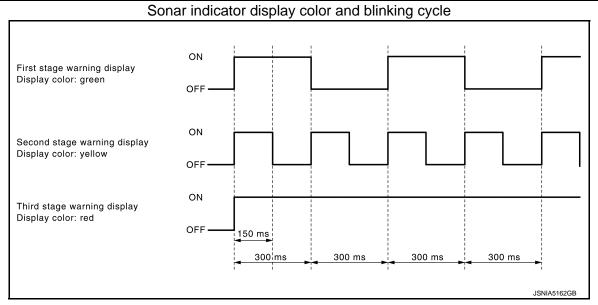
Sonar Indicator Display

- When around view monitor control unit receives detection signal and detection distance signal from sonar control unit, the around view monitor control unit displays the sonar indicator on display control unit.
- Around view monitor control unit changes display color and indicator blinking cycle according to detection distance.

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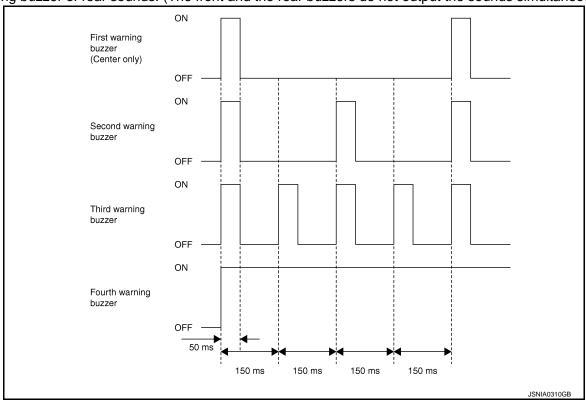
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Warning Buzzer Frequency

- The warning buzzer cycle changes between 4 levels (for front center and rear center) and 3 levels (for corner) according to the detection distance.
- The nearest sensor from the detected obstacle determines the buzzer cycle if plural sensors detect any obstacle simultaneously detected obstacles.
- If both the front and the rear sensor detect different objects simultaneously, the sensor which detects the closer object is prior to another sensor. If the detection distance is equal between the front and the rear, warning buzzer of rear sounds. (The front and the rear buzzers do not output the sounds simultaneously.)



NOTE:

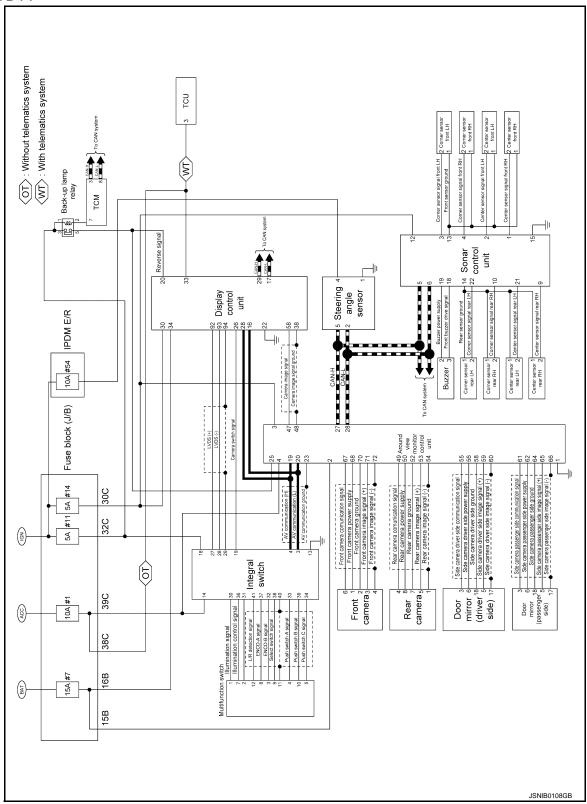
The warning buzzer of the corner sensor sounds as follows:

- As for the first, second and third stages, the warning buzzer sound for 3 seconds at maximum.
- As for the fourth stage, the warning buzzer does not stop even after a lapse of 3 seconds.
- Buzzer stops when the vehicle moves away from an obstacle and the warning level decreases.

Circuit Diagram

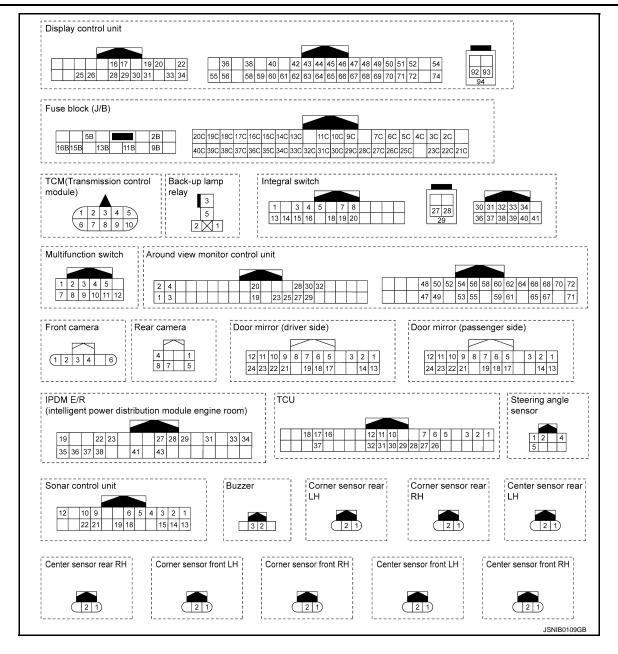
INFOID:0000000012795717

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< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]



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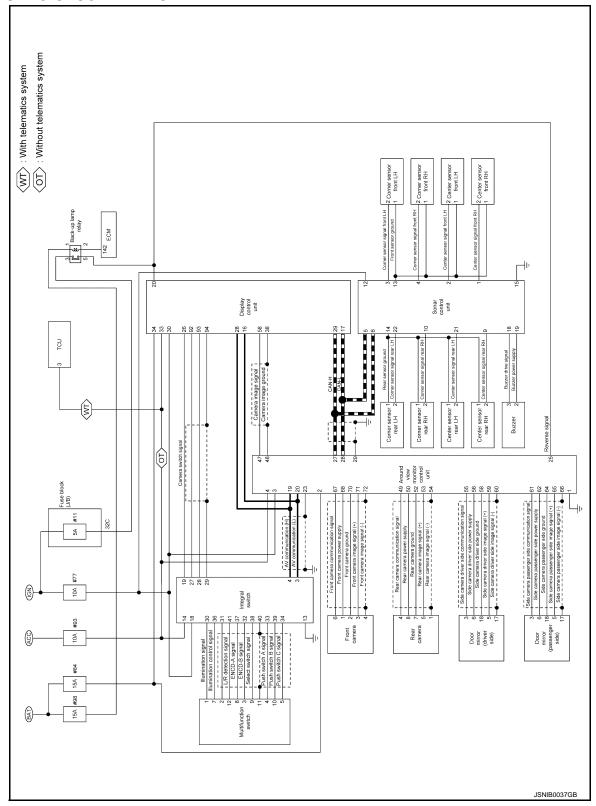
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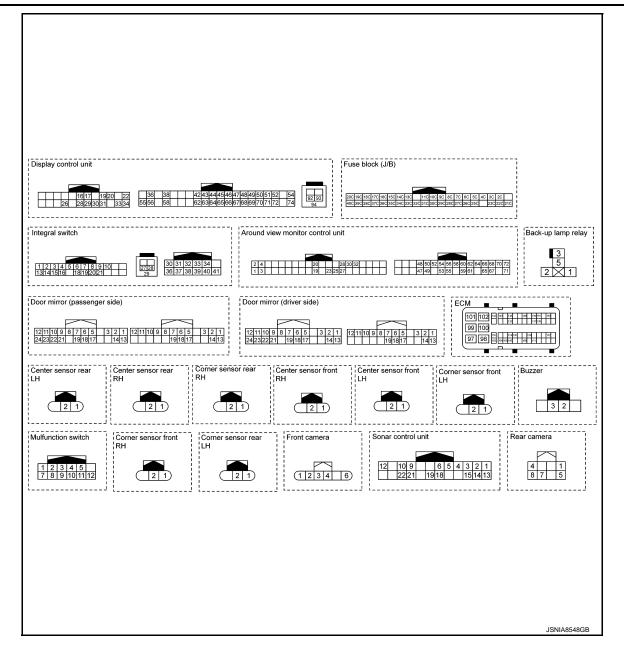
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2.0L TURBO GASOLINE ENGINE



[AROUND VIEW MONITOR SYSTEM]



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< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

Fail-Safe (Around View Monitor Control Unit)

INFOID:0000000013498219

DTC Display contents of CONSULT	Malfunction detection condition	Fail-safe condition
U0428: ST ANGLE SENSOR CALIBRATION	Neutral position adjustment of steering angle sensor is not complete.	 Predicted course line is not displayed. MOD (Moving Object Detection) function is stopped. Front tire angle display is stopped. Using "SETTING" menu display, switch each indicator of predicted course line display and MOD switch to "OFF" (turn OFF) so that switch operation cannot be performed.
U1000: CAN COMM CIRCUIT	When around view monitor control unit cannot transmit/receive CAN communication signal continuously for 2 seconds or more.	 The following functions are stopped When communication of steering angle sensor signal is not normal Predicted course line is not displayed. MOD (Moving Object Detection) function is stopped. Front tire angle display is stopped. Using "SETTING" menu display, switch each indicator of predicted course line display and MOD switch to "OFF" (turn OFF) so that switch operation cannot be performed. When communication of vehicle signal, wheel speed sensor signal, and shift signal is not normal Predicted course line is not displayed. MOD (Moving Object Detection) function is stopped. Using "SETTING" menu display, switch each indicator of predicted course line display and MOD switch to "OFF" (turn OFF) so that switch operation cannot be performed When communication of sonar signal is not normal Predicted course line is not displayed.

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

DTC Display contents of CONSULT	Malfunction detection condition	Fail-safe condition
U111A: REAR CAMERA IMAGE SIGNAL	No-signal status of rear camera image signal is continued for 500 ms or more while ignition switch is ON. NOTE: Current malfunction is displayed only and is not saved.	
U111B: SIDE CAMERA RH IM- AGE SIGNAL	No-signal status of side camera RH image signal is continued for 500 ms or more while ignition switch is ON. NOTE: Current malfunction is displayed only and is not saved.	Camera image is not displayed (Gray screen display).
U111C: FRONT CAMERA IMAGE SIGNAL	No-signal status of rear camera image signal is continued for 500 ms or more while ignition switch is ON. NOTE: Current malfunction is displayed only and is not saved.	
U111D: SIDE CAMERA LH IM- AGE SIGNAL	No-signal status of side camera LH image signal is continued for 500 ms or more while ignition switch is ON. NOTE: Current malfunction is displayed only and is not saved.	
U1232: ST ANGLE SEN CALIB	Neutral position adjustment of steering angle sensor is performed. NG signal from steering angle sensor is received.	 Predicted course line is not displayed. MOD (Moving Object Detection) function is stopped. Tire icon is stopped. Using "SETTING" menu display, switch each indicator of predicted course line display and MOD switch to "OFF" (turn OFF) so that switch operation cannot be performed.
U1302: CAMERA POWER VOLT	 Camera power supply voltage does not satisfy the following conditions for 2 seconds or more when ignition switch is turned ON. When supplemental lighting power supply output is ON: 5.9 – 6.5 V. When OFF: 0 V by camera power supply measurement. 	Camera power output is stopped.
U1304: CAMERA IMAGE CALIB	When camera calibration is incomplete. When camera information in around view monitor control unit and information read from camera are not the same. NOTE: Current malfunction is displayed only and is not saved.	Unmatched icon \(\square\) display (red) is displayed (applicable for unmatched camera only).
U1305: CONFIG UNFINISH	The vehicle setting of around view monitor control unit is incomplete. NOTE: Current malfunction is displayed only and is not saved.	Operation is according to the vehicle setting value as default value.

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

DTC Display contents of CONSULT	Malfunction detection condition	Fail-safe condition
	When around view monitor control unit is not normal.	Switch to camera screen is not allowed.
Other	When communication between around view monitor control unit and each camera is not normal.	On applicable camera screen marking (Red) is displayed.
	When communication line between around view monitor control unit and each camera image line are affected by electromagnetic noises.	On applicable camera image screen, X display (Blue) is displayed.

Fail-Safe (Sonar Control Unit)

INFOID:0000000013498220

The warning buzzer function is deactivated when a sensor system error is detected.

HANDLING PRECAUTION

Display INFOID:0000000012795719

- When the compartment temperature is low, the display images may look slower because the LCD response
 is deteriorated. The system will recover its normal operation when the cabin temperature increases to an
 appropriate level.
- When the compartment temperature is low [0°C (32°F) or less], the display images may look slower. It is characteristic of the LCD monitor and should not be considered to be a malfunction. When the temperature is at the operating temperature [0°C (32°F) to 50°C (122°F)], the display returns to normal.
- There may be small dark or bright dots in the screen or remaining display content may be found (image lag). These are inherent symptoms to any LCD monitor and should not be considered to be a malfunction.
- The image may look bright or dark when viewed obliquely from the rear. It is inherent to any LCD monitor and should not be considered to be a malfunction.
- Do not apply pressure on the LCD monitor. Doing so may cause irregularities in the screen image or render it inoperative.
- Do not use hard cloth, organic solvent (alcohol, benzine, and thinner), or chemical wipe to clean the LCD monitor. Doing so may affect the panel surface. When cleaning the LCD monitor, always wipe it with a soft cloth after shutting off the power. For severe contamination, use a soft cloth dampened with mild detergent (no droplets can be present).

Around View Monitor

PRECAUTIONS FOR THE HANDLING OF CAMERA SYSTEM

- The camera system assists the detection of obstacles. When operating the vehicle, the safety must be confirmed and ensured directly by sight, using the mirrors.
- Distance shown by vehicle width guiding lines and predicted course lines may differ from actual distance depending on the number of passengers and fuel capacity. For this reason, these lines must be used only as a guide.
- With the camera lens characteristics, a distance shown on the screen may look different from actual distance or obstacles may look deformed.
- The camera is a precision instrument. Always prevent a strong impact, such as high-pressure car wash. Failure to do this results in a malfunction.
- Adhesion of dirt, rain drops, and snow to the camera lens may lower the sharpness of camera image or cause an improper operation in MOD (Moving Object Detection) function or parking frame recognition function. These adherents must be removed with a soft wet cloth first, then with a dry soft cloth.
- Never damage the camera. Failure to do this may affect camera images.

PRECAUTIONS FOR THE HANDLING OF MOD (MOVING OBJECT DETECTION)

- MOD (Moving Object Detection) does not inform the driver of stationary objects.
- MOD (Moving Object Detection) detects a moving object by processing image data of an image shown on the display. The detection performance of a moving object is limited.
- MOD (Moving Object Detection) may not operate properly when any of the following conditions is satisfied:
- Color and brightness of a moving object are similar to those of its background.
- Existence of blinking light, such as turn signal lamp
- Reflection of a strong light, such as head lamp light from other vehicles or sun light.
- Inappropriate orientation of camera due to folded mirror.
- Non-moving objects, such as water droplets dripping on the camera lens, white smoke from the muffler or moving shadow may be detected.
- Detection may not be performed properly depending on the speed, direction, distance, and shape of moving object.

PRECAUTIONS FOR THE HANDLING OF SONAR SYSTEM

- Ultrasonic sensors detect an obstacle by using strong reflected waves (echo) reflected from the obstacle. For this reason, an obstacle may not be detected properly if any of the following item applies:
- Soft and air-containing object, such as cloth, cotton, glass wool, dust, and snow.
- Slanted slick object.
- Angle of an angular object.
- Thin object, such as rope, chain, and wire
- Fast-moving small animal
- The detection may be unstable due to irregular reflection when any of the following conditions is satisfied:
- Object with rough surface, such as rock, stone, and gravel.

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HANDLING PRECAUTION

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

- Close to an object emitting sonic waves or electromagnetic waves.
- The surface of sensor is frozen, snow-covered, dirty, or wet.
- Extremely close to an obstacle [Approximately 20 cm (7.87 in) or less is the physical limit of obstacle detection by supersonic waves.]
- Under severe weather conditions, such as heavy snow, heavy rain, and strong wind.
- The vehicle is left stand under the hot sun or in a cold climate area for a long time.

DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT)

CONSULT Function

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CONSULT FUNCTIONS

CONSULT performs the following functions via the communication with the around view monitor control unit.

Diagnosis mode	Description
Self Diagnostic Result	Around view monitor control unit and AV communication circuit connection diagnosis is performed. Current and previous malfunctions are displayed collectively.
Data Monitor	Diagnosis of vehicle signal that is received by around view monitor control unit can be performed.
Work support	 Calibration and initialization of each camera can be performed. Fine tuning of Birds-Eye view can be performed. Target line calibration of front wide view and rear wide view can be performed. Display of predicted course line can be switched to ON/OFF. Language of warning message can be selected. Neutral position adjustment of steering angle sensor can be performed. Camera screen activation enhancing display can be switched to ON/OFF. Calibration of turning radius display can be performed. Setting change can be performed depending on the vehicle specification with/without door mirror automatic retracting function. "SONAR OFF" display can be switched to ON/OFF. Camera zoom ratio can be changed and used for fine tuning.
ECU Identification	Around view monitor control unit part number, software version, and hardware version can be identified.
Configuration	 The vehicle specification that is written in around view monitor control unit can be displayed or stored. The vehicle specification can be written when around view monitor control unit is replaced.

SELF DIAGNOSTIC RESULT

Refer to AV-485, "DTC Index".

- In CONSULT self-diagnosis, self-diagnosis results and error history are displayed collectively.
- The current malfunction indicates "CRNT". The past malfunction indicates "PAST".

Freeze Frame Data (FFD)

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

Item name	Display content
IGN COUNTER (0 to 39)	 Numerical value is displayed indicating the number of times that ignition switch is turned ON after the DTC is detected. When "0" is displayed, it indicates that the system is presently malfunctioning. When any numerical number other than "0" is displayed, it indicates that system malfunction in the past is detected, but the system is presently normal. NOTE: Each time when ignition switch turns OFF→ON, numerical number increases from 1→2→338→39. When number of times exceeds 39, numeric display does not increase and 39 is displayed until self-diagnosis is erased.

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.

AV-461

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

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DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT) [AROUND VIEW MONITOR SYSTEM]

< SYSTEM DESCRIPTION >

Display Item	Remarks
ST ANGLE SENSOR SIGNAL [On/Off]	Receiving status of steering angle signal received from steering angle sensor is switched to ON/OFF.
REVERSE SIGNAL [On/Off]	Receiving status of reverse signal received from display control unit is displayed by ON/OFF.
VEHICLE SPEED SIGNAL [On/Off]	Receiving status of vehicle speed signal received from ABS actuator control unit is displayed by ON/OFF.
CAMERA SWITCH SIGNAL [On/Off]	Receiving status of camera switch signal received from display control unit is displayed by ON/ OFF.
CAMERA OFF SIGNAL [On/Off]	Receiving status of camera OFF signal received from display control unit is displayed by ON/ OFF.
ST ANGLE SENSOR TYPE [Absolute]	Input type of steering angle sensor is displayed. NOTE: For this vehicle, "Absolute" is displayed.
STEERING GEAR RATIO TYPE [TYPE1]	Type of steering gear ratio is displayed. NOTE: For this vehicle, "TYPE 1" is displayed.
STEERING POSITION [LHD/RHD]	Steering position is displayed.
REAR CAMERA IMAGE SIGNAL [OK/NG]	Input status of rear view camera image signal is displayed by OK/NG in real time.
R-CAMERA COMM STATUS [OK/NG]	Communication status with rear camera is displayed by OK/NG in real time.
R-CAMERA COMM LINE [OK/NG]	Status of communication line with rear camera is displayed by OK/NG in real time.
F-CAMERA IMAGE SIGNAL [OK/NG]	Input status of front view camera image signal is displayed by OK/NG in real time.
F-CAMERA COMM STATUS [OK/NG]	Communication status with front camera is displayed by OK/NG in real time.
F-CAMERA COMM LINE [OK/NG]	Status of communication line with front camera is displayed by OK/NG in real time.
DR-SIDE CAMERA IMAGE SIG [OK/NG]	Input status of side camera LH image signal is displayed by OK/NG in real time.
DR CAMERA COMM STATUS [OK/NG]	Communication status with side camera LH is displayed by OK/NG in real time.
DR-SIDE CAMERA COMM LINE [OK/NG]	Status of communication line with side camera LH is displayed by OK/NG in real time.
PA-SIDE CAMERA IMAGE SIG [OK/NG]	Input status of side camera RH image signal is displayed by OK/NG in real time.
PA CAMERA COMM STATUS [OK/NG]	Communication status with side camera RH is displayed by OK/NG in real time.
PA-SIDE CAMERA COMM LINE [OK/NG]	Status of communication line with side camera RH is displayed by OK/NG in real time.
ACC [OK/NG]	Input status of ACC signal input to around view monitor control unit is displayed by ON/OFF in real time.
FOLDING MOTOR VOLT 1 [ON/OFF]	Input status of retractable power door mirror LH operation signal input to around view monitor control unit is displayed by ON/OFF in real time.
FOLDING MOTOR VOLT 2 [ON/OFF]	Input status of retractable power door mirror LH operation signal input to around view monitor control unit is displayed by ON/OFF in real time.

WORK SUPPORT

DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT) [AROUND VIEW MONITOR SYSTEM]

< SYSTEM DESCRIPTION >

Work support items	Description
NON-VIEWABLE AREA REMIND- ER	ON/OFF setting of the non-viewable area reminder can be performed.
INITIALIZE CAMERA IMAGE CAL- IBRATION	The calibration can be initialized to factory shipment condition. NOTE: Calibration of camera image caused by misalignment of the camera installation position is performed.
STEERING ANGLE SENSOR AD- JUSTMENT	Steering angle sensor neutral position can be adjusted and registered. CAUTION: For vehicles with VDC, adjust the steering angle sensor neutral position on the ABS actuator control unit side. Refer to BRC-91 . "Work Procedure".
CALIBRATING CAMERA IMAGE (FRONT CAMERA)	Performs the calibration of front camera. NOTE: Calibration of camera image caused by misalignment of the camera installation position is performed.
CALIBRATING CAMERA IMAGE (PASS-SIDE CAMERA)	Performs the calibration of side camera RH. NOTE: Calibration of camera image caused by misalignment of the camera installation position is performed.
CALIBRATING CAMERA IMAGE (DR-SIDE CAMERA)	Performs the calibration of side camera LH. NOTE: Calibration of camera image caused by misalignment of the camera installation position is performed.
CALIBRATING CAMERA IMAGE (REAR CAMERA)	Performs the calibration of rear camera. NOTE: Calibration of camera image caused by misalignment of the camera installation position is performed.
FINE TUNING OF BIRDS-EYE VIEW	The confirmation and adjustment of the difference between each camera can be performed. The fine adjustment function of camera calibration can check and adjust the difference between each camera.
REAR WIDE-VIEW FIXED GUIDE LINE CORRECTION	The position of rear wide view guiding line can be changed.
TURNING RADIUS CORRECTION	Corrects the length of the turning radius used for parking guidance. NOTE: Not used under normal conditions.
PARTS WITH DOOR MIRROR AUTO FOLD FUNCTION SETTING	Item is displayed, but it is not used.
SONAR Off POP-UP DISPLAY SETTING CHANGE	"SONAR OFF" display can be switched to ON/OFF.
FRONT WIDE-VIEW FIXED GUIDE LINE CORRECTION	The position of front wide view guiding line can be changed.
ZOOM FUNCTION	Zoom ratio of each camera can be changed. NOTE: When the position cannot be aligned using "FINE TUNING OF BIRDS-EYE VIEW", the adjustment may be performed using this "ZOOM FUNCTION".

ECU IDENTIFICATION

Around view monitor control unit part number, software version, and hardware version can be identified.

CONFIGURATION

Configuration includes functions as follows.

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DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT) [AROUND VIEW MONITOR SYSTEM]

< SYSTEM DESCRIPTION >

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

CAUTION:

- When replacing around view monitor control unit, you must perform "Read / Write Configuration" or "Manual Configuration" with CONSULT.
- Complete the procedure of "Read / Write Configuration" or "Manual Configuration" in order.
 If you set incorrect "Read / Write Configuration" or "Manual Configuration", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- Never perform "Read / Write Configuration" or "Manual Configuration" except for new around view monitor control unit.

DIAGNOSIS SYSTEM (SONAR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

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DIAGNOSIS SYSTEM (SONAR CONTROL UNIT)

CONSULT Function

CONSULT FUNCTIONS

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

Diagnosis mode	Description		
Self Diagnostic Result	The malfunctions recorded in the memory of sonar control unit are displayed.		
Data Monitor	Sonar control unit input/output signal data is displayed in real time.		
Work support	Performs volume adjustment of sonar buzzer.		
Active Test	Performs operation check of sonar buzzer.		
Ecu Identification	Displays the sonar control unit part number.		
 Configuration The vehicle specification that is written in sonar control unit can be displayed The vehicle specification can be written when sonar control unit is replaced. 			

SELF DIAGNOSTIC RESULT

Refer to AV-490, "DTC Index".

Freeze Frame Data (FFD)

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

Item name	Display content
ODO/TRIP METER (km)	Total driving distance (odometer value) upon DTC detection is displayed.

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.

Monitor item	Description		
VEHICLE SPEED [km/h]	Vehicle speed that is calculated by vehicle speed signal received from the ABS actuator control unit is displayed.		
SONAR C/U POWER SUPPLY [V]	Ignition power supply voltage received by sonar control unit is displayed.		
SENSOR VOLTAGE [V]	Drive voltage transmitted to each corner sensor is displayed.		
DETECTION MODE [Mode 1/Mode 2]	Indicates condition of display detection mode.		
SW OPRT AFTR IGN ON [Yes/No]	Indicates condition of switch operation after ignition ON signal.		
SONAR TEMPORARY OFF [Yes/No]	Indicates condition of sonar system.		
SONAR PERMANENT OFF [Yes/No]	Indicates condition of sonar system.		
P N RANGE [On/Off]	Status of P or N position received from TCM is displayed.		
LED [On/Off]	Indicates condition of LED.		
TRAILER CONNECT [N CON/CON]	Indicates condition of trailer connector.		
REVERSE RANGE [On/Off]	Status of R position received from TCM is displayed.		

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DIAGNOSIS SYSTEM (SONAR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

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

WORK SUPPORT

Work support items	Description
VOLUME SETTING	Volume of sonar buzzer can be adjusted in 3 stages.
TRAILER HITCH DETECTION RANGE ADJUSTMENT	Allows to adjust rear sonar sensors for trailer towing.

ACTIVE TEST

Test item	Function	
REAR BUZZER	Sonar buzzer (rear) can be operated.	
FRONT BUZZER	Sonar buzzer (front) can be operated.	
LED	LED can be operated.	

ECU IDENTIFICATION INFORMATION

Displays sonar control unit part number.

DIAGNOSIS SYSTEM (SONAR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

CONFIGURATION

Configuration includes functions as follows.

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

CAUTION:

- When replacing sonar control unit, you must perform "Read / Write Configuration" or "Manual Configuration" with CONSULT.
- Complete the procedure of "Read / Write Configuration" or "Manual Configuration" in order.
- If you set incorrect "Read / Write Configuration" or "Manual Configuration", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- Never perform "Read / Write Configuration" or "Manual Configuration" except for new sonar control
 unit.

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ECU DIAGNOSIS INFORMATION

DISPLAY CONTROL UNIT

Reference Value

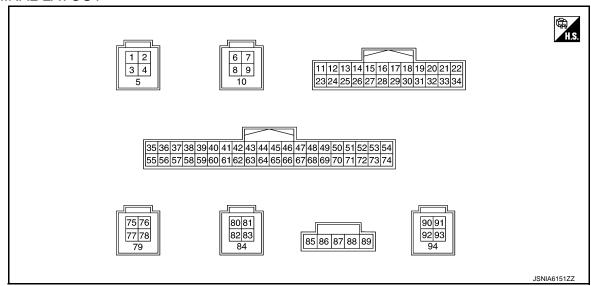
VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

Monitor Item		Condition	Value/Status
VHCL SPD SIG	Ignition switch	Vehicle speed > 0 km/h (0 MPH)	On
	ON	Vehicle speed = 0 km/h (0 MPH)	Off
PKB SIG	Ignition switch	Parking brake is applied.	On
	ON	Parking brake is released.	Off
ILLUM SIG	Ignition switch	Block the light beam from the auto light optical sensor when the light switch is ON.	On
	ON	Expose the auto light optical sensor to light when the light switch is OFF or ON.	Off
IGN SIG	Ignition switch C	DN.	On
IGN SIG	Ignition switch A	CC.	Off
REV SIG	Ignition switch	Selector lever in R position.	On
	ON	Selector lever in any position other than R.	Off

TERMINAL LAYOUT



PHYSICAL VALUES

	minal e color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
1 (G)	_	USB ground	_	_	_
2 (W)	_	USB V BUS signal	Output	_	_

< ECU DIAGNOSIS INFORMATION >

	minal color)	Description		Condition	Reference value	_
+	-	Signal name	Input/ Output	Condition	(Approx.)	
3 (R)	_	USB D- signal	Input/ Output	_	_	_
4 (L)	_	USB D+ signal	Input/ Output	_	_	_
5 ()	_	Shield	_	_	_	_
6 (G)	_	USB ground	_	_	_	
7 (W)	_	USB V BUS signal	Output	_	_	
8 (R)	_	USB D- signal	Input/ Output	_	_	
9 (L)	_	USB D+ signal	Input/ Output	_		
10 (—)	_	Shield	_	_	_	
16 (LG)	_	AV communication signal (L)	Input/ Output	_	_	<u> </u>
17 (P)	_	CAN-L	Input/ Output	_	_	
19 (D)	22	Dimmer signal	Input	 [Ignition switch ON] Either of the following conditions Lighting switch OFF Expose the auto light optical sensor to light when the light switch is ON. 	0 V	_
(R)	(B)			 [Ignition switch ON] Block the light beam from the auto light optical sensor when the light switch is ON. 	12.0 V	_
20	22	Reverse signal	Input	[Ignition switch ON] • R position	12.0 V	
(BR)	(B)	Treverse signal	mpat	[Ignition switch ON] • Other than R position	0 V	
22 (B)	_	Ground	_	[Ignition switch ON]	0 V	_
26	22	Camera switch signal	logut	[Ignition switch ON] • Camera switch: ON	0 - 2.5 V	
(BR)	(B)	Camera switch signal	Input	[Ignition switch ON] • Camera switch: OFF	3.0 V	A
28 (SB)	_	AV communication signal (H)	Input/ Output	_	_	_
29 (L)	_	CAN-H	Input/ Output	_	_	
30 (W) ^{*1} (R) ^{*2}	22 (B)	Ignition signal	Input	[Ignition switch ON]	Battery voltage	

	ninal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
31 (R)	22 (B)	Vehicle speed signal (8-pulse)	Input	[Ignition switch ON] • When vehicle speed is approx. 40 km/h (25 MPH)	NOTE: The maximum voltage varies depending on the specification (destination unit).
33 (SB) ^{*6} (V) ^{*7}	22 (B)	ACC power supply	Input	[Ignition switch ACC]	Battery voltage
34 (Y)	22 (B)	Battery power supply	Input	[Ignition switch OFF]	Battery voltage
36 (LG)		Composite image signal (-)	_	_	_
38 (—)	_	Shield	_	_	_
40 ^{*3} (—)	_	Manufacturer specific sig- nal	_	_	_
42 (G)		Sound signal RH (-)	_	_	_
43 (—)	_	Shield	_	_	_
44 (L)	_	Sound signal LH (-)	_	_	_
45 (W)		TEL voice signal (-)	_	_	_
46 (—)	ĺ	Shield		_	_
47 (R)	_	Voice guidance signal output (–)	_	_	_
48 (B)	_	Voice guidance signal input (-)	_	_	_
49 (W)	_	NS ON/OFF signal	_	_	_
50 (R)	_	Microphone signal ground (With navigation)	_	[Ignition switch ON]	0 V
51 (—)	_	Shield		_	_
52 (—)	_	Microphone signal ground	_	[Ignition switch ON]	0 V
54 (W)	_	Camera power supply ground	_	[Ignition switch ON]	0 V
55 (—)	_	Shield	_	_	_

< ECU DIAGNOSIS INFORMATION >

[AROUND VIEW MONITOR SYSTEM]

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	minal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
56 (BR)	36 (LG)	Composite image signal (+)	Input	[Ignition switch ON] • Image is displayed.	(V) 0. 4 0 -0. 4 -40μs SKIB2251J
58 (B)	22 (B)	Camera image signal	Input	[Ignition switch ON] • Image is displayed.	(V) 0.4 -0.4 20μs SKIB0827E
60 (W)	_	Sound signal (-)		_	_
61 (B)	60 (W)	Sound signal (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
62 (R)	42 (G)	Sound signal RH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
63 (—)	_	Shield	_	_	_
64 (V)	44 (L)	Sound signal LH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
65 (B)	45 (W)	TEL voice signal (+)	Input	[Ignition switch ON] • During voice guide output with the √∠ ✓ switch pressed	(V) 1 0 -1 + 2ms SKIB3609E
66 (—)	_	Shield	_	_	_

	minal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
67 (G)	47 (R)	Voice guidance signal output (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
68 (W)	48 (B)	Voice guidance signal input (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
69 (—)	_	Shield	_	_	_
70 (G)	50 (R)	Microphone signal (NAVI)	Output	[Ignition switch ON] • Give a voice	(V) 2. 5 2. 0 1. 5 1. 0 0. 5 0 1. 5 1. 0 0. 5
71 (R) ^{*4} (G) ^{*5}	52 (—)	Microphone signal	Output	[Ignition switch ON] • Give a voice	(V) 2. 5 2. 0 1. 5 1. 0 0. 5 0
72 (L)	22 (B)	Microphone VCC	Output	[Ignition switch ON]	5.0 V
74 (R)	54 (W)	Camera power supply	Output	[Ignition switch ON] • At rear view camera image is displayed	6.0 V
				[Ignition switch ON] • Except for above	0 V
77 (W)	78 (B)	LVDS (+)	Input/ Output	_	_
78 (B)	_	LVDS (-)	Input/ Output	_	_
79 (—)	_	Shield	_	_	_
80 (G)	_	USB ground	_	_	_
81 (W)	_	USB V BUS signal	Output	_	_
82 (R)	_	USB D- signal	Input/ Output	_	_

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[AROUND VIEW MONITOR SYSTEM]

	ninal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
83 (L)	_	USB D+ signal	Input/ Output	_	_
84 (—)	_	Shield	_	_	_
85 (R)	_	USB V BUS signal	Output	_	_
86 (P)	_	USB D- signal	Input/ Output	_	_
87 (W)	_	USB D+ signal	Input/ Output	_	_
89 (Y)	_	USB ground	_	_	_
92 (W)	_	LVDS (+)	Input/ Output	_	_
93 (B)	_	LVDS (-)	Input/ Output	_	_
94	_	Shield	_	_	_

^{*1:} For 2.0L turbo gasoline engine

Fail-Safe (Display Control Unit)

If a malfunction occurs in the Infiniti InTouch, display control unit performs fail-safe activation according to the detected malfunction.

Detection item	Infiniti InTouch operation in fail-safe mode	DTC
Engine speed signal	Active noise cancellation system and active sound enhancement system function are deactivated.	B1F01
Front microphone	Active noise cancellation function is deactivated.	B1F0B B1F0C B1F0D B1F0E
CAN communication	The system using the CAN communication signal from control unit which cannot communicate does not function.	U1000
	The system using the CAN communication signal does not function.	U1010
Display control unit	 Display is not displayed. Display control unit restart. Display control unit freezes. NOTE: Symptom other than an item may occur. 	U121F
Configuration	A function of display control unit becomes mismatched with a vehicle specification and destination.	U1223
BOSE amp.	BOSE system does not function.	U1231
Steering angle sensor	Predictive course line is not displayed.	U1232

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^{*2:} For VR30 engine

^{*3:} Not used

^{*4:} With telematics system

^{*5:} Without telematics system

^{*6:} Except for VR30 engine and with ISS

^{*7:} For VR30 engine and with ISS

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Detection item		Infiniti InTouch operation in fail-safe mode	DTC	
NAVI control unit	Navigation screen NOTE:	Map is not displayed. Navigation screen does not operate. NOTE: Symptom other than an item may occur.		
AV control unit	CD is not played.Radio does not op NOTE:	Radio does not operate.		
GPS antenna	The vehicle position	s of a navigation screen differ.	U1244	
	AV control unit	 Sound is not output by a speaker. CD is not played. Radio does not operate. NOTE: Symptom other than an item may occur. 	U1249	
	BOSE amp.	Sound is not output by a speaker.	U124E	
	Integral switch	 Integral switch display is not displayed. Switch operation does not operate. Touch panel operation does not operate. NOTE: Symptom other than an item may occur. 	U1259	
AV communication	Around view monitor control unit	Camera image is not displayed.	U125B	
	Combination meter	 Audio information is not displayed by the information display in the combination meter. Navigation indicator is not displayed by the information display in the combination meter. Steering switch does not operate. 	U1267	
	Diaplay control unit	The system of ECU which detected abnormalities does not operate.	U1300	
	Display control unit	The system which is using AV communication does not operate.	U1310	
Satellite radio antenna	Satellite radio is not	received.	U1258	
	NAVI control unit	A navigation menu cannot be selected (hatching display).	U125D	
USB communication	TCU	Telematics system does not function.	U1266	
	External data input box	Audio equipment which connected to USB does not operate.	U12B7	
Rear view camera	Rear camera image	is not displayed.	U12B8	
Multifunction switch	Multifunction switch	Multifunction switch operation does not operate.		
Radio antenna	Radio is not receive	Radio is not received.		

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[AROUND VIEW MONITOR SYSTEM]

Detection item		Infiniti InTouch operation in fail-safe mode DTC				
	With BOSE system					
	Front door woofer	No sound from front door woofer LH or RH.	U1601 U1609			
	Front door squawk- er	No sound from front door squawker LH or RH.	U1602 U160A			
	Front door tweeter	No sound from front door tweeter LH or RH.	U1603 U160B			
	Front squawker	No sound from front squawker LH or RH.	U1626 U162E			
Speaker/squawker/tweeter/ woofer	Front center squawker	No sound from front center squawker.	U162A			
woolei	Rear door speaker	No sound from rear door speaker LH or RH.	U1708 U1710			
	Rear satellite speaker	No sound from rear satellite speaker LH or RH.	U1722 U172A			
	Rear woofer	No sound from rear woofer.	U1725			
		Without BOSE system				
	Front door speaker	No sound from front door speaker LH or RH.	U1600 U1608			
	Rear door speaker	No sound from rear door speaker LH or RH.	U1708 U1710			

DTC Inspection Priority Chart

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If multiple DTCs are detected simultaneously, check them one by one depending on the following DTC inspection priority chart.

Priority	Detected items (DTC)
1	U1223: CONFIG UNFINISH
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	B1F01: ENG SPEED SIG ERROR U1249: AUDIO H/U CONN U124E: AMP CONN U1259: 2ND DISP CONN U125B: AROUND CAMERA CONN U1267: METER CONN

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[AROUND VIEW MONITOR SYSTEM]

Priority	Detected items (DTC)
4	U121F: DISPLAY CONTROL UNIT U1233: NAVI CONTROL UNIT U1234: AV CONTROL UNIT U1300: AV COMM CIRCUIT U1310: CONTROL UNIT(AV)
5	B1F0B: ANC MIC1 CIRC OPEN B1F0C: ANC MIC1 CIRC SHORT B1F0D: ANC MIC1 CIRC SHORT-BAT B1F0E: ANC MIC1 CIRC SHORT-GND U1232: ST ANGLE SEN CALIB U1244: GPS ANTENNA CONN U1258: XM ANTENNA CONN U125D: DVD NAVI CONN U125D: DVD NAVI CONN U1266: TCU CONN U1288: REAR CAMERA CONN U1288: REAR CAMERA CONN U1288: REAR CAMERA CONN U1288: RADIO ANTENA CONN U1281: AMP TEMP U1600: FL-DOOR SPEAKER U1601: FL-DOOR WOOFER U1602: FL-DOOR SQUAWK U1603: FL-DOOR SPEAKER U1603: FR-DOOR SPEAKER U1603: FR-DOOR SPEAKER U1603: FR-DOOR SUAWK U1603: FR-DOOR SUAWK U1603: FR-DOOR SUAWK U1604: FR-DOOR SQUAWK U1605: FR-DOOR SQUAWK U1606: FR-DOOR SQUAWK U1606: FR-DOOR SQUAWK U1606: FR-DOOR SQUAWK U1606: FR-DOOR SQUAWK U1626: F-INST L-SQUAWK U1626: F-INST L-SQUAWK U1627: FINST C-SQUAWK U1728: R-PSHELF R-SQUAWK U1725: R-PSHELF L-SQUAWK U1725: R-PSHELF L-SQUAWK U1726: R-PSHELF R-SQUAWK U1726: R-PSHELF R-SQUAWK

DTC Index

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

DTC	CONSULT display	Reference
B1F01	ENG SPEED SIG ERROR	AV-281, "WITH BOSE SYSTEM: DTC Description"
B1F0B	ANC MIC1 CIRC OPEN	AV-289, "DTC Description"
B1F0C	ANC MIC1 CIRC SHORT	AV-289, "DTC Description"
B1F0D	ANC MIC1 CIRC SHORT-BAT	AV-289, "DTC Description"
B1F0E	ANC MIC1 CIRC SHORT-GND	AV-289, "DTC Description"
U1000	CAN COMM CIRCUIT	AV-307, "DISPLAY CONTROL UNIT: DTC Description"
U1010	CONTROL UNIT (CAN)	AV-309, "DISPLAY CONTROL UNIT : DTC Description"
U121F	DISPLAY CONTROL UNIT	AV-311, "DTC Description"
U1223	CONFIG UNFINISH	AV-312, "DTC Description"
U1231	AMP TEMP	AV-313, "DTC Description"
U1232	ST ANGLE SEN CALIB	AV-314, "DTC Description"
U1233	NAVI CONTROL UNIT	AV-315, "DTC Description"
U1234	AV CONTROL UNIT	AV-316, "DTC Description"

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DTC	CONSULT dis	CONSULT display		
U1244	GPS ANTENNA CONN		AV-317, "DTC Description"	
U1249	AUDIO H/U CONN	AUDIO H/U CONN		
U124E	AMP CONN		AV-320, "DTC Description"	
U1258	XM ANTENNA CONN	GND-SHORT OPEN	AV-321, "DTC Description"	
U1259	2ND DISP CONN		AV-323, "DTC Description"	
U125B	AROUND CAMERA CONN		AV-325, "DTC Description"	
U125D	DVD NAVI CONN		AV-327, "DTC Description"	
U1266	TCU CONN		AV-328, "DTC Description"	
U1267	METER CONN		AV-329, "DTC Description"	
U12B7	USB CONN		AV-331, "DTC Description"	
U12B8	REAR CAMERA CONN		AV-332, "DTC Description"	
U12BA	MULTIFUNCTION SWITCH CONN		AV-334, "DTC Description"	
U12BE	RADIO ANTENA CONN	GND-SHORT OPEN	AV-336, "DTC Description"	
U1300	AV COMM CIRCUIT	<u> </u>	AV-338, "DTC Description"	
U1310	CONTROL UNIT(AV)		AV-340, "DTC Description"	
U1600	FL-DOOR SPEAKER	OPEN SHORT GND-SHORT VB-SHORT	AV-341, "DTC Description"	
U1601	FL-DOOR WOOFER	OPEN SHORT GND-SHORT VB-SHORT	AV-344, "DTC Description"	
U1602	FL-DOOR SQUAWK	OPEN SHORT GND-SHORT VB-SHORT	AV-347, "DTC Description"	
U1603	FL-DOOR TWEETER	OPEN SHORT GND-SHORT VB-SHORT	AV-350, "DTC Description"	
U1608	FR-DOOR SPEAKER	OPEN SHORT GND-SHORT VB-SHORT	AV-341, "DTC Description"	
U1609	FR-DOOR WOOFER	OPEN SHORT GND-SHORT VB-SHORT	AV-344, "DTC Description"	

< ECU DIAGNOSIS INFORMATION >

DTC	CONSULT disp	lay	Reference
		OPEN	
114004	ED DOOD COLLANS	SHORT	AV-347, "DTC Description"
U160A	FR-DOOR SQUAWK	GND-SHORT	
		VB-SHORT	
		OPEN	
LLAGOR	50 0000 TW55T50	SHORT	AV (050 IIDTO D
U160B	FR-DOOR TWEETER	GND-SHORT	AV-350, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U1626	F-INST L-SQUAWK	GND-SHORT	AV-353, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U162A	F-INST C-SQUAWK	GND-SHORT	AV-356, "DTC Description
		VB-SHORT	
		OPEN	
		SHORT	AV-353, "DTC Description
U162E	F-INST R-SQUAWK	GND-SHORT	
		VB-SHORT	
		OPEN	AV-358, "DTC Description"
		SHORT	
U1708	RL-DOOR SPEAKER	GND-SHORT	
		VB-SHORT	
		OPEN	
		SHORT	
U1710	RR-DOOR SPEAKER	GND-SHORT	AV-358, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U1722	R-PSHELF L-SQUAWK	GND-SHORT	AV-362, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U1725	R-PSHELF C-WOOFER	GND-SHORT	AV-365, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	AV-362, "DTC Description"
U172A	R-PSHELF R-SQUAWK	GND-SHORT	
		VB-SHORT	

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[AROUND VIEW MONITOR SYSTEM]

AROUND VIEW MONITOR 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.

Monitor Item		Condition	Value/Status
ST ANGLE SENSOR SIGNAL	Ignition switch	When steering angle sensor signal is input	On
[On/Off]	ON	Other than the above	Off
REVERSE SIGNAL	Ignition switch	R position	On
[On/Off]	ON	Other than R position	Off
VEHICLE SPEED SIGNAL	Ignition switch	When vehicle speed is input	On
[On/Off]	ON	Other than the above	Off
CAMERA SWITCH SIGNAL	Ignition switch	When camera switch signal is input	On
[On/Off]	ON	Other than the above	Off
CAMERA OFF SIGNAL	Ignition switch	When camera OFF signal is input	On
[On/Off]	ON	Other than the above	Off
ST ANGLE SENSOR TYPE [Absolute]	Ignition switch ON	_	Absolute
STEERING GEAR RATIO TYPE [TYPE1]	Ignition switch ON	_	TYPE1
STEERING POSITION [LHD]	Ignition switch ON	LHD models	LHD
REAR CAMERA IMAGE SIGNAL [OK/NG]	Ignition switch ON	When rear camera image signal input status is normal	OK
		When rear view camera image signal input status is not normal	NG
R-CAMERA COMM STATUS	Ignition switch ON	When communication status with rear camera is normal	ОК
[OK/NG]		When communication status with rear camera is not normal	NG
R-CAMERA COMM LINE	lanition switch	When communication line with rear camera is normal	OK
[OK/NG]	Ignition switch ON	When communication line with rear camera is not normal	NG
F-CAMERA IMAGE SIGNAL	Ignition switch ON	When front camera image signal input status is normal	ОК
[OK/NG]		When front camera image signal input status is not normal	NG
F-CAMERA COMM STATUS	Ignition switch	When communication status with front camera is normal	ОК
[OK/NG]	ON	When communication status with front camera is not normal	NG
F-CAMERA COMM LINE	Ignition quitch	When communication line with front camera is normal	OK
[OK/NG]	Ignition switch ON	When communication line with front camera is not normal	NG
DR-SIDE CAMERA IMAGE SIG	Ignition switch	When side camera LH image signal input status is normal	ОК
[OK/NG]	ON	When side camera LH image signal input status is not normal	NG

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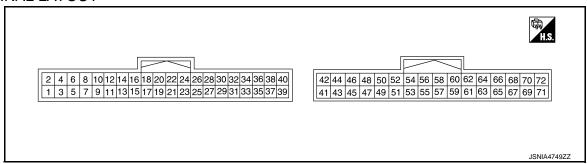
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[AROUND VIEW MONITOR SYSTEM]

Monitor Item		Condition	Value/Status
DR CAMERA COMM STATUS	Ignition switch	When communication status with side camera LH is normal	OK
[OK/NG]	ON	When communication status with side camera LH is not normal	NG
DR-SIDE CAMERA COMM LINE	Ignition switch	When communication line with side camera LH is normal	ОК
[OK/NG]	ON	When communication line with side camera LH is not normal	NG
PA-SIDE CAMERA IMAGE SIG	Ignition switch	When side camera RH image signal input status is normal	OK
[OK/NG]	ŎN	When side camera RH image signal input status is not normal	NG
PA CAMERA COMM STATUS	Ignition switch ON	When communication status with side camera RH is normal	OK
[OK/NG]		When communication status with side camera RH is not normal	NG
PA-SIDE CAMERA COMM LINE	Ignition switch	When communication line with side camera RH is normal	ОК
[OK/NG]	ON	When communication line with side camera RH is not normal	NG
ACC	Ignition switch ACC		On
ACC	Ignition switch OFF		Off
FOLDING MOTOR VOLT 1	Ignition switch	Driver side door mirror is in expanded status	On
[On/Off]	ON	Driver side door mirror is in retracted status	Off
FOLDING MOTOR VOLT 2	Ignition switch	Driver side door mirror is in expanded status	Off
[On/Off]	ON	Driver side door mirror is in retracted status	On

TERMINAL LAYOUT



PHYSICAL VALUES

	Terminal Description			Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
1 (B)	Ground	Ground	_	[Ignition switch ON]	0 V
2 (Y)	1 (B)	Battery power supply	Input	[Ignition switch OFF]	Battery voltage
3 (LG)	1 (B)	Ignition signal	Input	[Ignition switch ON]	Battery voltage
4 (P)	1 (B)	ACC power supply	Input	[Ignition switch ACC]	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	minal e color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
19 (P)	_	AV communication signal (H)	Input/ Output	_	_
20 (LG)	_	AV communication signal (L)	Input/ Output	_	_
23 (—)	_	AV communication signal ground	_	_	_
25	1	Reverse signal	Input	[Ignition switch ON] • R position	12.0 V
(BG)	(B)	ixeverse signal	iliput	[Ignition switch ON] • Other than R position	0 V
27 (L)	_	CAN-H	Input/ Output	_	_
28 (Y)*1 (R)*2 (P)*3	_	CAN-L	Input/ Output	_	_
29 (—)	_	CAN communication signal ground	_	_	_
47 (B)	48 (—)	Camera image signal	Output	[Ignition switch ON]CAMERA switch is ON or shift position is R position	(V) 1 0 -1 40 μ s JSNIA0834GB
48 (—)	Ground	Camera image signal ground	_	[Ignition switch ON]	0 V
49 (W)	52 (R)	Rear camera communication signal	Input/ Output	[Ignition switch ON]CAMERA switch is ON or shift position is R position	(V) 5 4 3 2 1 1 3 2 1 3 3 3 3 3 3 3 3 3 3 3 3 3
50 (B)	52 (R)	Rear camera power supply	Output	[Ignition switch ON]	6.0 V
52 (R)	Ground	Rear camera ground	_	[Ignition switch ON]	0 V
53 (G)	54 (—)	Rear camera image signal (+)	Input	[Ignition switch ON]CAMERA switch is ON or shift position is R position	(V) 1 0 -1 -40 μs JSNIA0834GB
54 (—)	Ground	Rear camera image signal (–)	_	[Ignition switch ON]	0 V

	minal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
55 (GR)	58 (P)	Side camera driver side communication signal	Input/ Output	[Ignition switch ON]CAMERA switch is ON or shift position is R position	(V) 54 3 2 1 1.0 μ s JSNIA0836GB
56 (V)	58 (P)	Side camera driver side power supply	Output	[Ignition switch ON]	6.0 V
58 (P)	Ground	Side camera driver side ground	_	[Ignition switch ON]	0 V
59 (LG)	60 (—)	Side camera driver side image signal (+)	Input	[Ignition switch ON]CAMERA switch is ON or shift position is R position	(V) 1 0 -1 +40 μ s JSNIA0834GB
60 (—)	Ground	Side camera driver side image signal (–)		[Ignition switch ON]	0 V
61 (W)	64 (R)	Side camera passen- ger side communica- tion signal	Input/ Output	[Ignition switch ON]CAMERA switch is ON or shift position is R position	(V) 54 3 2 1 1 1.0 μ s JSNIA0836GB
62 (L)	64 (R)	Side camera passenger side power supply	Output	[Ignition switch ON]	6.0 V
64 (R)	Ground	Side camera passen- ger side ground	_	[Ignition switch ON]	0 V
65 (G)	66 (—)	Side camera passenger side image signal (+)	Input	[Ignition switch ON]CAMERA switch is ON or shift position is R position	(V) 1 0 -1 40 μ s JSNIA0834GB
66 (—)	Ground	Side camera passenger side image signal (–)	_	[Ignition switch ON]	0 V
67 (B)	70 (G)	Front camera com- munication signal	Input/ Output	[Ignition switch ON]CAMERA switch is ON or shift position is R position	(V) 5 4 3 2 1 0 JSNIA0836GB

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[AROUND VIEW MONITOR SYSTEM]

	minal color)	Description		Condition	Reference value	
+	_	Signal name	Input/ Output	Condition	(Approx.)	
68 (W)	70 (G)	Front camera power supply	Output	[Ignition switch ON]	6.0 V	
70 (G)	Ground	Front camera ground	_	[Ignition switch ON]	0 V	
71 (R)	72 (—)	Front camera image signal (+)	Input	[Ignition switch ON]CAMERA switch is ON or shift position is R position	(V) 1 0 -1 +40 μ s JSNIA0834GB	
72 (—)	Ground	Front camera image signal (–)		[Ignition switch ON]	0 V	

^{*1: 2.0} turbo gasoline engine with ADAS

Fail-Safe (Around View Monitor Control Unit)

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DTC Display contents of CONSULT	Malfunction detection condition	Fail-safe condition
U0428: ST ANGLE SENSOR CALIBRATION	Neutral position adjustment of steering angle sensor is not complete.	 Predicted course line is not displayed. MOD (Moving Object Detection) function is stopped. Front tire angle display is stopped. Using "SETTING" menu display, switch each indicator of predicted course line display and MOD switch to "OFF" (turn OFF) so that switch operation cannot be performed.
U1000: CAN COMM CIRCUIT	When around view monitor control unit cannot transmit/receive CAN communication signal continuously for 2 seconds or more.	 The following functions are stopped When communication of steering angle sensor signal is not normal Predicted course line is not displayed. MOD (Moving Object Detection) function is stopped. Front tire angle display is stopped. Using "SETTING" menu display, switch each indicator of predicted course line display and MOD switch to "OFF" (turn OFF) so that switch operation cannot be performed. When communication of vehicle signal, wheel speed sensor signal, and shift signal is not normal Predicted course line is not displayed. MOD (Moving Object Detection) function is stopped. Using "SETTING" menu display, switch each indicator of predicted course line display and MOD switch to "OFF" (turn OFF) so that switch operation cannot be performed When communication of sonar signal is no normal Predicted course line is not displayed.

^{*2:} Except for 2.0L turbo gasoline engine with ADAS and VR30DDTT engine with ADAS

^{*3:} VR30DDTT engine with ADAS

< ECU DIAGNOSIS INFORMATION >

DTC Display contents of CONSULT	Malfunction detection condition	Fail-safe condition	
U111A: REAR CAMERA IMAGE SIGNAL	No-signal status of rear camera image signal is continued for 500 ms or more while ignition switch is ON. NOTE: Current malfunction is displayed only and is not saved.		
U111B: SIDE CAMERA RH IM- AGE SIGNAL	No-signal status of side camera RH image signal is continued for 500 ms or more while ignition switch is ON. NOTE: Current malfunction is displayed only and is not saved.	Camera image is not displayed (Gray screen	
U111C: FRONT CAMERA IMAGE SIGNAL	No-signal status of rear camera image signal is continued for 500 ms or more while ignition switch is ON. NOTE: Current malfunction is displayed only and is not saved.	display).	
U111D: SIDE CAMERA LH IM- AGE SIGNAL	No-signal status of side camera LH image signal is continued for 500 ms or more while ignition switch is ON. NOTE: Current malfunction is displayed only and is not saved.		
U1232: ST ANGLE SEN CALIB	Neutral position adjustment of steering angle sensor is performed. NG signal from steering angle sensor is received.	 Predicted course line is not displayed. MOD (Moving Object Detection) function is stopped. Tire icon is stopped. Using "SETTING" menu display, switch each indicator of predicted course line display and MOD switch to "OFF" (turn OFF) so that switch operation cannot be performed. 	
U1302: CAMERA POWER VOLT	 Camera power supply voltage does not satisfy the following conditions for 2 seconds or more when ignition switch is turned ON. When supplemental lighting power supply output is ON: 5.9 – 6.5 V. When OFF: 0 V by camera power supply measurement. 	Camera power output is stopped.	
U1304: CAMERA IMAGE CALIB	When camera calibration is incomplete. When camera information in around view monitor control unit and information read from camera are not the same. NOTE: Current malfunction is displayed only and is not saved.	Unmatched icon X display (red) is displayed (applicable for unmatched camera only).	
U1305: CONFIG UNFINISH	The vehicle setting of around view monitor control unit is incomplete. NOTE: Current malfunction is displayed only and is not saved.	Operation is according to the vehicle setting value as default value.	

< ECU DIAGNOSIS INFORMATION >

[AROUND VIEW MONITOR SYSTEM]

DTC Display contents of CONSULT	Malfunction detection condition	Fail-safe condition
	When around view monitor control unit is not normal.	Switch to camera screen is not allowed.
Other	When communication between around view monitor control unit and each camera is not normal.	On applicable camera screen marking (Red) is displayed.
	When communication line between around view monitor control unit and each camera image line are affected by electromagnetic noises.	On applicable camera image screen, X display (Blue) is displayed.

DTC Inspection Priority Chart

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If multiple DTCs are detected simultaneously, check them one by one depending on the following DTC inspection priority chart.

Priority	Detected items (DTC)				
1	U1305: CONFIG UNFINISH				
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)				
3	U0428: ST ANGLE SENSOR CALIBRATION U111A: REAR CAMERA IMAGE SIGNAL U111B: SIDE CAMERA RH IMAGE SIGNAL U111C: FRONT CAMERA IMAGE SIGNAL U111D: SIDE CAMERA LH IMAGE SIGNAL U1232: ST ANGLE SEN CALIB U1302: CAMERA POWER VOLT U1303: LED POWER SUPPLY VOLT U1304: CAMERA IMAGE CALIB				

DTC Index

DTC	CONSULT display	Refer to
U0428	ST ANGLE SENSOR CALIBRATION	AV-573, "DTC Description"
U1000	CAN COMM CIRCUIT	AV-574, "AROUND VIEW MONITOR CONTROL UNIT : DTC Description"
U1010	CONTROL UNIT (CAN)	AV-577, "AROUND VIEW MONI- TOR CONTROL UNIT : DTC De- scription"
U111A	REAR CAMERA IMAGE SIGNAL	AV-579, "DTC Description"
U111B	SIDE CAMERA RH IMAGE SIGNAL	AV-582, "DTC Description"
U111C	FRONT CAMERA IMAGE SIGNAL	AV-585, "DTC Description"
U111D	SIDE CAMERA LH IMAGE SIGNAL	AV-588, "DTC Description"
U1232	ST ANGLE SEN CALIB	AV-591, "DTC Description"
U1302	CAMERA POWER VOLT	AV-592, "DTC Description"
U1303	LED POWER SUPPLY VOLT	AV-596, "DTC Description"
U1304	CAMERA IMAGE CALIB	AV-597, "DTC Description"
U1305	CONFIG UNFINISH	AV-598, "DTC Description"

Revision: November 2016 **AV-485** 2016 Q50

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
VEHICLE SPEED	While driving		Input value of vehicle speed signal
SONAR C/U POWER SUPPLY	Ignition switch	ON	Battery voltage
SENSOR VOLTAGE	Ignition switch	ON	Approx. 8.0 V
DETECTION MODE	Ignition switch	ON	Mode 1
DETECTION MODE	Ignition switch	ON	Mode 2
SW OPRT AFTR IGN	Switch operation	on after ignition ON.	Yes
ON	Gwitch operation	on and ignition oit.	No
SONAR TEMPORARY	Ignition switch	ON, selector lever in R (reverse) position.	No
OFF	When selector	lever is in any position other than R (reverse).	Yes
SONAR PERMANENT	Ignition switch	ON, selector lever in R (reverse) position.	No
OFF	When selector	lever is in any position other than R (reverse).	Yes
P N RANGE	Ignition switch	Selector lever P or N position	On
INNANOL	ON	Other than the above	Off
LED	When LED is C	DFF.	Off
LLD	When LED is C	DN.	On
TRAILER CONNECT	No trailer conn	ected to trailer hitch.	N CON
TIVILLIN CONTILOT	Trailer connect	ed to trailer hitch.	CON
REVERSE RANGE	Ignition switch	Selector lever R position	On
NEVEROL NAME	ON	Other than the above	Off
SHRT DST FRM RR SENS	Ignition switch	An obstacle exists in the vicinity of rear corner/center sensor. [Approx. 27 - 70 cm (10.63 - 27.56 in)]	Almost agree with the distance from the closest obstacle to rear bumper. [27 - 70 cm (10.63 - 27.56 in)]
SEINS	ON	No obstacle exists in the vicinity of rear corner/center sensor.	255 cm (100.39 in)
SHRT DST FRM FR	Ignition switch	An obstacle exists in the vicinity of front corner/center sensor. [Approx. 27 - 70 cm (10.63 - 27.56 in)]	Almost agree with the distance from the closest obstacle to front bumper. [27 - 70 cm (10.63 - 27.56 in)]
SENS	ON	No obstacle exists in the vicinity of front corner/center sensor.	255 cm (100.39 in)
COR[RL]	Ignition switch	An obstacle exists in the vicinity of rear corner sensor LH. [Approx. 27 - 70 cm (10.63 - 27.56 in)]	Almost agree with the distance from an obstacle to rear corner sensor LH. [27 - 70 cm (10.63 - 27.56 in)]
	OI4	No obstacle exists in the vicinity of rear corner sensor LH.	255 cm (100.39 in)
COR[FL]	Ignition switch	An obstacle exists in the vicinity of front corner sensor LH. [Approx. 27 - 70 cm (10.63 - 27.56 in)]	Almost agree with the distance from an obstacle to front corner sensor LH. [27 - 70 cm (10.63 - 27.56 in)]
	JIV	No obstacle exists in the vicinity of front corner sensor LH.	255 cm (100.39 in)

< ECU DIAGNOSIS INFORMATION >

[AROUND VIEW MONITOR SYSTEM]

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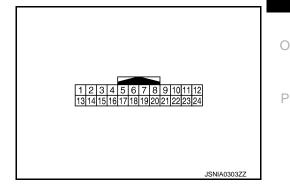
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Monitor item		Condition	Value/Status
COR[RR]	Ignition switch	An obstacle exists in the vicinity of rear corner sensor RH. [Approx. 27 - 70 cm (10.63 - 27.56 in)]	Almost agree with the distance from an obstacle to rear corner sensor RH. [27 - 70 cm (10.63 - 27.56 in)]
	OIV	No obstacle exists in the vicinity of rear corner sensor RH.	255 cm (100.39 in)
COR[FR]	Ignition switch	An obstacle exists in the vicinity of front corner sensor RH. [Approx. 27 - 70 cm (10.63 - 27.56 in)]	Almost agree with the distance from an obstacle to front corner sensor RH. [27 - 70 cm (10.63 - 27.56 in)]
		No obstacle exists in the vicinity of front corner sensor RH.	255 cm (100.39 in)
CEN[RL]/CEN[R]	Ignition switch	An obstacle exists in the vicinity of rear center sensor LH. [Approx. 27 - 70 cm (10.63 - 27.56 in)]	Almost agree with the distance from an obstacle to rear center sensor LH. [27 - 70 cm (10.63 - 27.56 in)]
	ON	No obstacle exists in the vicinity of rear center sensor LH.	255 cm (100.39 in)
CEN[FL]/CEN[F]	Ignition switch	An obstacle exists in the vicinity of front center sensor LH. [Approx. 27 - 70 cm (10.63 - 27.56 in)]	Almost agree with the distance from an obstacle to front center sensor LH. [27 - 70 cm (10.63 - 27.56 in)]
	ON	No obstacle exists in the vicinity of front center sensor LH.	255 cm (100.39 in)
CEN[RR]	Ignition switch	An obstacle exists in the vicinity of rear center sensor RH. [Approx. 27 - 70 cm (10.63 - 27.56 in)]	Almost agree with the distance from an obstacle to rear center sensor RH. [27 - 70 cm (10.63 - 27.56 in)]
	ON	No obstacle exists in the vicinity of rear center sensor RH.	255 cm (100.39 in)
CEN[FR]	Ignition switch	An obstacle exists in the vicinity of front center sensor RH. [Approx. 27 - 70 cm (10.63 - 27.56 in)]	Almost agree with the distance from an obstacle to front center sensor RH. [27 - 70 cm (10.63 - 27.56 in)]
		No obstacle exists in the vicinity of front center sensor RH.	255 cm (100.39 in)
RVRB TIME COR[RL]	Ignition switch	ON	Approx. 1.60 ms
RVRB TIME COR[RR]	Ignition switch	ON	Approx. 1.60 ms
RVRB TIME COR[FL]	Ignition switch	ON	Approx. 1.60 ms
RVRB TIME COR[FR]	Ignition switch	ON	Approx. 1.60 ms
RVRB TIME CEN[RL]	Ignition switch	ON	Approx. 1.60 ms
RVRB TIME CEN[RR]	Ignition switch	ON	Approx. 1.60 ms
RVRB TIME CEN[FL]	Ignition switch	ON	Approx. 1.60 ms
RVRB TIME CEN[FR]	Ignition switch	ON	Approx. 1.60 ms

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No. e color)	Description		O an disting	Value
+	-	Signal name	Input/ Output	Condition	(Approx.)
1 (SB)	13 (B)	Center sensor signal front RH	Input	[Ignition switch ON]	(V) 5 4 3 2 1 0 * 10ms JSNIA0837GB
2 (LG)	13 (B)	Center sensor signal front LH	Input	[Ignition switch ON]	(V) 5 4 3 2 1 0 * 10ms JSNIA0837GB
3 (W)	13 (B)	Corner sensor signal front LH	Input	[Ignition switch ON]	(V) 5 4 3 2 1 0 → 10ms JSNIA0837GB
4 (GR)	13 (B)	Corner sensor signal front RH	Input	[Ignition switch ON]	(V) 5 4 3 2 1 0 10ms JSNIA0837GB
5 (L)	_	CAN-H	Input/ Output	_	_
6 (R) ^{*1} (P) ^{*2}	_	CAN-L	Input/ Output	_	<u> </u>
9 (G)	14 (B)	Center sensor signal rear RH	Input	[Ignition switch ON]	(V) 5 4 3 2 1 0 **10ms JSNIA0837GB
10 (BG)	14 (B)	Corner sensor signal rear RH	Input	[Ignition switch ON]	(V) 5 4 3 2 1 0 * 10ms JSNIA0837GB

< ECU DIAGNOSIS INFORMATION >

[AROUND VIEW MONITOR SYSTEM]

	inal No. e color)	Description		Condition	Value
+	-	Signal name	Input/ Output	Condition	(Approx.)
12 (W) ^{*3} (R) ^{*4}	15 (B)	Ignition power supply	Input	[Ignition switch ON]	Battery voltage
13 (B)	Ground	Front sensor ground	_	_	0 V
14 (B)	Ground	Rear sensor ground	_	_	0 V
15 (B)	Ground	Ground	_	_	0 V
18 (GR)	15 (B)	Front buzzer drive signal	Input	[Ignition switch ON] • When the distance between the sensor and obstacle is approx 60 cm (23.62 in).	NOTE: • Voltage depends on volume. • Cycle depends on distance between sensor and obstacle. 0 V JSNIA5232GB
19 (P)	15 (B)	Buzzer power supply	Output	[Ignition switch ON]	0 V
21 (BR)	14 (B)	Center sensor signal rear LH	Input	[Ignition switch ON]	(V) 5 4 3 2 1 0 10ms JSNIA0837GB
22 (W)	14 (B)	Corner sensor signal rear LH	Input	[Ignition switch ON]	(V) 5 4 3 2 1 010ms JSNIA0837GB

^{*1:} With CAN gateway

Fail-Safe (Sonar Control Unit)

The warning buzzer function is deactivated when a sensor system error is detected.

DTC Inspection Priority Chart

If multiple DTCs are detected simultaneously, check them one by one depending on the following DTC inspection priority chart.

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INFOID:0000000012795732

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^{*2:} Without CAN gateway

^{*3:} For 2.0L turbo gasoline engine

^{*4:} Except for 2.0L turbo gasoline engine

< ECU DIAGNOSIS INFORMATION >

[AROUND VIEW MONITOR SYSTEM]

Priority	Detected items (DTC)
1	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
2	B2724: SONAR CONTROL UNIT
3	 B2720: CORNER SENSOR [RL] B2721: CENTER SENSOR [RL] B2722: CENTER SENSOR [RR] B2723: CORNER SENSOR [RR] B2729: CORNER SENSOR [FL] B272A: CENTER SENSOR [FL] B272B: CENTER SENSOR [FR] B272C: CORNER SENSOR [FR] B272D: FRONT BUZZER

DTC Index

DTC	CONSULT display	Reference
B2720	CORNER SENSOR [RL]	AV-545, "DTC Description"
B2721	CENTER SENSOR [RL]	AV-548, "DTC Description"
B2722	CENTER SENSOR [RR]	AV-551, "DTC Description"
B2723	CORNER SENSOR [RR]	AV-554, "DTC Description"
B2724	SONAR CONTROL UNIT	AV-557, "DTC Description"
B2729	CORNER SENSOR [FL]	AV-558, "DTC Description"
B272A	CENTER SENSOR [FL]	AV-561, "DTC Description"
B272B	CENTER SENSOR [FR]	AV-564, "DTC Description"
B272C	CORNER SENSOR [FR]	AV-567, "DTC Description"
B272D	FRONT BUZZER	AV-570, "DTC Description"
U1000	CAN COMM CIRCUIT	AV-575, "SONAR CONTROL UNIT : DTC Description"
U1010	CONTROL UNIT (CAN)	AV-577, "SONAR CONTROL UNIT : DTC Description"

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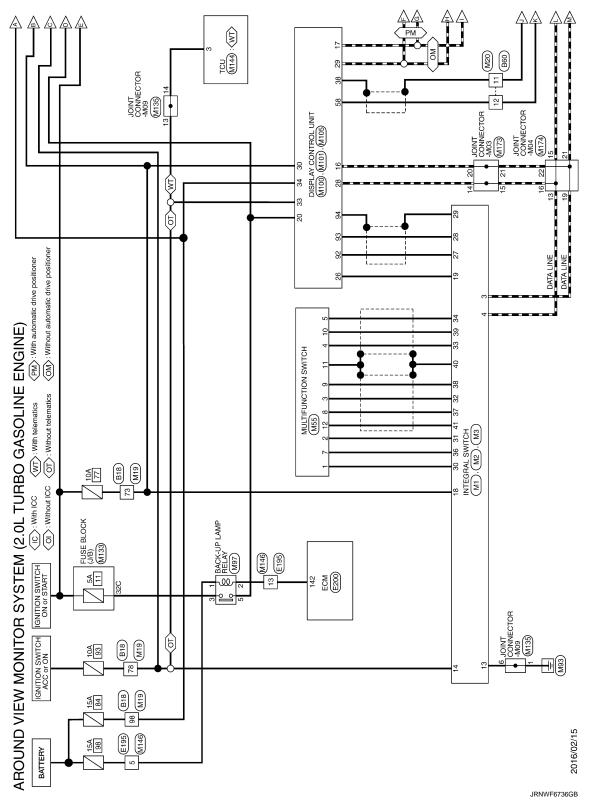
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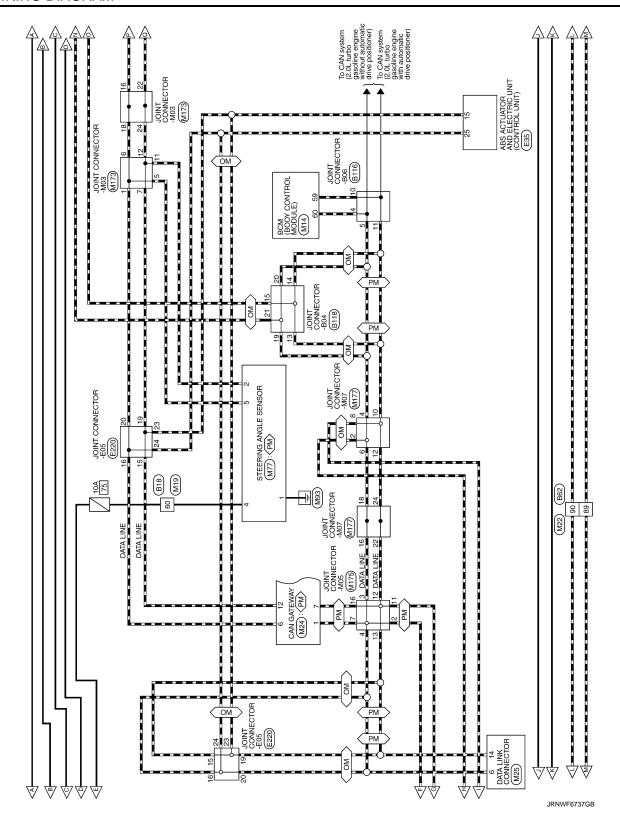
WIRING DIAGRAM

AROUND VIEW MONITOR SYSTEM

Wiring Diagram

2.0L TURBO GASOLINE ENGINE





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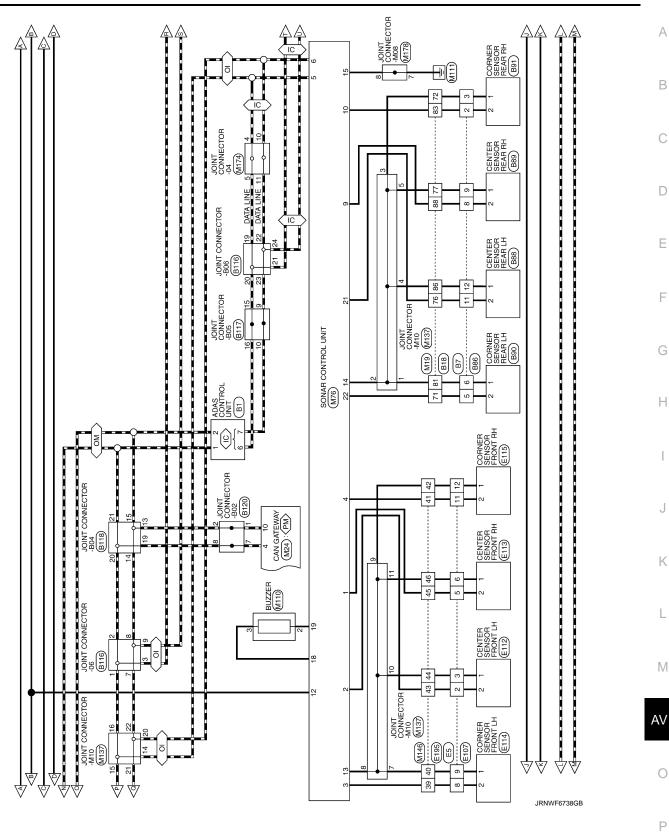
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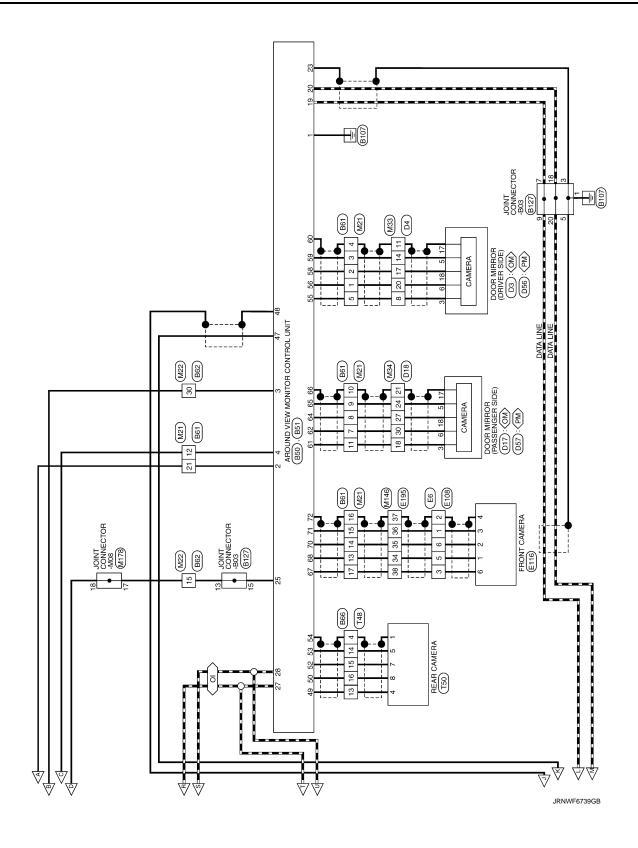
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[AROUND VIEW MONITOR SYSTEM]

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AV-495 2016 Q50 Revision: November 2016

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[AROUND VIEW MONITOR SYSTEM]

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			19	SHIELD	. [With VR30 engine]	22	8	- [With 2.0L turbo gasoline engine]	14	~	- [With 2.0L turbo gasoline engine and with gateway]
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		17 16 15 14		9	<u>"</u>		- 1		Connec	Connector No.	8120
		Z4 Z3 ZZ Z1 Z0 19			24 22 22 24 13	Terminal	al Color Of Wire	Signal Name [Specification]	Connec	Connector Name	JOINT CONNECTOR-B02
					161 02 12 22 02 42		9	- [With VR30 engine]	Connec	Connector Type	24342 4GA2A
Terminal	Color Of					-	SHIELD	- [With 2.0L turbo gasoline engine]			
N		Signal Name [Specification]	Terminal	nal Color Of			9	- [With VR30 engine]	Œ		
-	-		No		Signal Name [Specification]	~	SHED	- [With 2.0L turbo gasoline engine]	卖		6 5 4 3 2 1
2	-		-	ď	- [With 2 OI turbo gasoline engine]	~	SHEID		H.S.		12 11 10 9 8 7
"	-		-	SHIFID	ļ		2	- [With VR30 engine]		1	18 17 15 14 13
,	, -		1	4			CHEID	Mith 2 Of turbo assoline			24 23 22 21 20 19
	-		"		- [With VR30 engine]		٢	- [With VR30 engine]			
ی ا	-			CHIFID	- ſWith		SHEID	- fwith			
7	8		4	60	L	9	97		Terminal	al Color Of	
œ	~	- [With Gateway]	ur	ee	•	ی	SHELD	- [With 2.0L turbo gasoline engine]	Š	Wire	Signal Name (Specification)
œ	>	- [Without Gateway]	9	В		7	œ	- [Color of wire differs depending on production]	1	~	
6	~	- [With Gateway]	_	>		_	>	- [Color of wire differs depending on production]	7	~	,
6	>	- [Without Gateway]	œ	>		∞	PT	- [With 2.0L turbo gasoline engine]	m	_	- [With VR30 engine]
10	~	- [With VR30 engine]	6	۵	- [With VR30 engine]		œ	- [With VR30 engine and without paddle shift]	m	~	- [With 2.0L turbo gasoline engine]
10	>	- [With 2.0L turbo gasoline engine]	6	>	- [With 2.0L turbo gasoline engine]	∞	>	- [With VR30 engine and with paddle shift]	4	_	- [With VR30 engine]
11	^		10	d	- [With VR30 engine]	6	91	- [With 2.0L turbo gasoline engine]	4	R	- [With 2.0L turbo gasoline engine]
12	Ь	- [With Gateway]	10	٨	- [With 2.0L turbo gasoline engine]	6	ď	- [With VR30 engine and without paddle shift]	S	7	
12	В	- [Without Gateway]	11	Ь	•	6	۸	- [With VR30 engine and with paddle shift]	9	٦	
13	SHIELD		12	۵		101	91	- [With 2.0L turbo gasoline engine]	_	_	
14	SHIELD		13	-		10	SHIELD	- [With VR30 engine]	∞	_	

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[AROUND VIEW MONITOR SYSTEM]

< WIRING DIAGRAM >

12 80	6		 - [With 2.0L turbo gasoline engine] 	14 BG		Connector No.	D4		40	P - [Color of wire differs depending on production]
1 1 1 1 1 1 1 1 1 1	6	В	- [With VR30 engine]	15 BG		Connector No			H	
1	10	_	- [With 2.0L turbo gasoline engine]	L		Collifector Na			L	,
10	10	œ	- [With VR30 engine]	L		Connector Tyl			44	
10	11	æ		L				<u> </u>		
Connector Name Conn	12	В		H	-					
10 10 10 10 10 10 10 10	13	Μ							H	
Connector No. Connector No	14	*				2		<u> </u>	┝	
10	15	Μ		Connector No.	D3		- 1	<u> </u>	_	
Connector Name Conn	17	SHIELD				Γ			┝	,
1.	18	80		Connector Name	DOOR MIRROR (DRIVER SIDE)			<u> </u>		R - [Color of wire differs depending on production
10	19	В	- [With 2.0L turbo gasoline engine]	Connector Type	TH24MW-NH			<u> </u>	L	B - [Color of wire differs depending on production]
No.	19	GR	- [With VR30 engine]	ľ					-	
1.	П	GR		B						- 2
1 1 1 1 1 1 1 1 1 1	П	SHIELD	- [With 2.0L turbo gasoline engi	Ę		2	- as		28	- 1
	21	8	- [With 2.0L turbo gasoline engine]	ė.	10 7 8 5 3	4	. BG		_	
	21	GR	- [With VR30 engine]		101817	25		 	L	
1 1 2 1 1 2 2 2 2 2	22	*			1/1 01	1	^	I		
Final Color Of Signal Name Specification Color Of Signal Name Sp	23	>				7	91	<u></u>	H	
Ferminal Color Of Numer Signal Name Si	24	M				×		T	H	
1 1 1 1 1 1 1 1 1 1							, 8	1_ T	ł	
11 54 ED 12 12 13 14 13 14 13 14 14 13 14 14						, c	, ·	T	ł	
1 1 1 1 1 1 1 1 1 1	onnoctor	ı	20137	t		t		_ _	+	
MINONICTORNECTOR B03 S S S S S S S S S		ı	7770	+		t	90	_ Т	+	
MH204G-DC 2 W W W W W W W W W	onnector	r Name	JOINT CONNECTOR-B03	$^{+}$		4 5	2 -	<u> </u>	8 9	
15 17 17 18 14 18 17 18 14 18 17 18 18 17 18 18 17 18 18	Total	The second	000000000000000000000000000000000000000	+] -		_ Т	$^{+}$	
1		3	MIZORGEDC	+		: :		1 T	+	
1	1			, :		2 :	· · · · · · · · · · · · · · · · · · ·		+	
1 1 1 1 1 1 1 1 1 1	THE STATE OF			+		Je	GR		4	
1	Ě			+		17		_		
2019 12 15 4 3 11 0 14 8 Connector Name Co	į		6 5 4 3 2 1	12 L		18	GR .	ا _		
13			1817 151413 1			19	R .	ŏ	nnector No.	D17
18 R 21 LG						20			Total Control of the	
19 8 .				L		21	- 91	<u></u>	milector Mai	
Signal Name Specification 24 G G 25 E R					22	- w	ŏ	onnector Typ		
Wine Signal name (Specification) 24 G Control of the control of t	erminal	Color Of				23				
B B C C C C C C C C	No.	Wire	olgilar ikalije [opecilication]			24	. 9		13	
SHELD SHEL	1	8				52			Ę	
SHELD SHEL	2	SHIELD				56		_	ė E	10 7 6 5 3
SHELD SHEL	3	SHIELD				27	BR .	<u> </u>		101010
SHRID 200 20	Г	SHIELD				28	^	_		/ 0
P NA Terminal Col of Imminal Col of Imm		SHIELD				59		I		
P P P P P P P P P P	9	۵				30	, , ,	_		
P No. Wire LG -[Wirth XOL turbo gasoline engline] 34 LR 2 R SHELD -[Wirth XOL turbo gasoline engline] 35 R S R SHELD -[Wirth XOL turbo gasoline engline] 35 R S R SHELD -[Wirth XOL turbo gasoline engline] 35 R R R R SHELD -[Wirth XOL turbo gasoline engline] 36 GR R R R SHELD -[Wirth XOL turbo gasoline engline] 37 GR R R R SHELD -[Wirth XOL turbo gasoline engline] 37 GR R R R	7	۵				31	- d	E		
P MILL or (With VR30 engine) 33 BR 2 2 SHELD (With VR30 engine) 34 L L 35 R LG (With VR30 engine) 35 R R S S SHELD (With AV3.0L turbo gasoline engine) 37 G R C C SHELD (With AV3.0L turbo gasoline engine) A LG C Clock of wire effices depending on production) A		۵				32	Α.	 		
1c	6	۵				33	BR	 		
SHELD - (With 2.01 turbo gasoline engine) 35 R R 5 S 5 C	10	97	- [With VR30 engine]			34		 		,
C (With VR30 engine) 36 GR (With VR30 engine) 6 SHED (With 2.01 turbo gasoline engine) 6 C C C C C C C C C	Т	SHIELD	- [With 2.0L turbo gasoline engine]			35		 	L	
SHELD With 2.01 turbo gasoline engine 7 40 LG - Color of wire differs depending on production 10 10	11	91	- [With VR30 engine]			36	GR	 		
BG - (Color of wire differs depending on production) 10	Т	SHIELD	- [With 2.0L turbo gasoline engi			37	- 9	_	┝	
	T	BG				H	۰	L	H	

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DIS Commerce Com
Distance Connector Name Connector
D18 Carried Connector Name Specification Carried Connector Name Specification Carried Connector Name Carrie
DIS WHE TO WIRE MHORTON SYST STATE OF THE SEGRET OF THE SE
D18 WHE TO WIRE MHGOFW.1512 OG Signal Name [Specification]
D18 WHE TO WIFE WHE OF WIFE WHE OF SIGNAI Name IS pecification Of Signai Name IS pecificat
N D V N S S S S S S S S S

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[AROUND VIEW MONITOR SYSTEM]

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Revision: November 2016 **AV-501** 2016 Q50

AROUND	' MONITOR SYSTI	길	RO GA	EM (2.0L TURBO GASOLINE ENGINE)						
Connector No.	E116	22	2		116	LG	STARTER RELAY-L	Connector No.		M1
Connector Name	P ERONT CAMERA	23	3		119	BR	SENSOR GROUND	Connector Name		INTEGRAL SWITCH
	П	2.	+		120	BG	SENSOR GROUND		T	
Connector Type	RH06MB	52	+		123	: B	MAIN RELAY CONTROL SIGNAL	Connector lype	٦	TH24FW-NH
Œ		26	د د د و		127	> (ACCELERATOR REPORT POSITION SENSOR 1	1		
THE P. LEWIS CO.		31	- 8		137	o -	ACCELERATION PEDAL POSITION SENSOR I	李		
į. Š.		32	+		138	-	DRIVETRAIN CAN-H	H.S.		
	((1234 6))	33	╁		142	GR	BACK-UP LAMP SWITCH			o 4
	Ш	34	H		143	97	REFRIGERANT PRESSURE SENSOR		_	0
		35	9 B		145	r	ACCELERATOR PEDAL POSITION SENSOR 2			
		36	9 9		146	L	FUEL TANK PRESSURE SENSOR			
Terminal Color Of	r Of Signal Name (Specification)	37	7 SHIELD	-	148	٦	STARTER RELAY-H	Terminal	Color Of	Signal Name [Specification]
No. Wire		38	æ		120	Ь	CAN-L	No.	Wire	
1 R		39	\dashv		151	Ь	DRIVETRAIN CAN-L	2	œ	ILLUMINATION SIGNAL
+		40	\dashv		152	В	EVAP CANISTER VENT CONTROL VALVE	Э	91	AV COMM (L)
3 G		41	1 W		153	9	EVAP PURGE CONTROL VALVE	4	SB	AV COMM (H)
ŝ	01:	42	\dashv					7	M/B	DISK EJECT SIGNAL
9 M	-	43	3 BR					80	9	HAZERD SIGNAL
		44	\dashv		Connector No.		E220	13	8	GND
		45	+		Connector Name	r Name	JOINT CONNECTOR-E05	14	SB	ACC [For 2.0L turbo gasoline engine]
Connector No.	E195	46	×					14	>	ACC [For VR30 engine]
Connector Name	e WIRE TO WIRE				Connector Type	r Type	NH24FB-J	15	8	ILLUMINATION CONTROL SIGNAL
		Ĺ			ą		1	16	BG	DISK EJECT SIGNAL GROUND
Connector Type	TK36FW-NS10	Con	Connector No.	E200	国			18	œ	IGN [For VR30 engine]
þ		, uo	Connector Name	NO.) H		77 1	18	×	IGN [For 2.0L turbo gasoline engine]
唐					2		11 22	19	BB	CAMERA SWITCH SIGNAL
Ě		Conn	Connector Type	ADA52FB-AHZ6			1815	20	91	AIR BAG INDICATOR OFF SIGNAL
i.	응문화응되었었다. 설립하다 하면 내 기	Œ					24 23			
		手	Ţ	[10] [10] [24] [24] [24] [24] [24] [24]				Connector No.		M2
		4	S.		Terminal	Color Of			Г	!
			l	E (2)	No.		Signal Name (Specification)	Connector Name		INTEGRAL SWITCH
Terminal Color Of	r Of Simple Name (Specification)			97 98 39 39 39 39 39	3	۸		Connector Type		Tyco_1554987-6
_					4	7		ą		
5 BR					7	≯		厚		ď
+		Terminal	<u> </u>	f Signal Name [Specification]	∞ :	_	,	S !!		E
y 5		NO.	WIE	(MINNA) VIGGI 13 GTM/COG	⊒ 5	۸ -				97 28
+		8	+	FOWENCE (WOLLY)	12	, .	- (Without Gataway)			
12 0		8 8	+	DOWER SLIDDLY (MAIN)	51	. α	- [With Gateway]			63
ľ		9	╀	ECM GROUND	16	-	-			
H		101	01	POWER SUPPLY (MAIN)	19	Ь	- [Without Gateway]	Terminal	Color Of	3
15 6		102	┞	ECM GROUND	13	æ	- [With Gateway]		Wire	Signal Name [Specification]
16 W		103	> <	COOLING FAN CONTROL SIGNAL (PWM)	20	7	1	27	W	LVDS (+)
17 L		104	γ γ	SENSOR POWER SUPPLY	23	Ь	- [Without Gateway]	28	8	LVDS (-)
		105	R	SENSOR POWER SUPPLY	23	Я	- [With Gateway]	59	SHIELD	SHIELD
19 BR		106	Н	SENSOR GROUND	24	_				
-	ID -	109	d 60	ENGINE SPEED SIGNAL						
21 BR		11	.1 6	POWER SUPPLY						

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[AROUND VIEW MONITOR SYSTEM]

< WIRING DIAGRAM >

ARO		AROUND VIEW MONITOR SYSTEM (2.0). TURE	0 GA	(2.0L TURBO GASOLINE ENGINE)						
Connector No.	or No.	M3	9	80	OUTS HD LAMP CONT	23	ď		83	BG	
Connect	Connector Name	INTEGRAL SWITCH	99	æ	BLOWER FAN RLY CONT [With VR30 engine]	24	œ	- [With 2.0L turbo gasoline engine]	84	L	•
		T	99	>	BLOWER FAN RLY CONT [With 2.0L turbo gasoline engine]	24	>	- [With VR30 engine]	82	M	
Connector Type	r Type	TH12FW-NH	67	M/B	IGN RLYAY (F/B) CONT	22	Ь	 [With 2.0L turbo gasoline engine] 	98	В	
ą	_		89	æ	DIMMER	25	>	- [With VR30 engine]	88	В	
多			69	S.	A/T SHIFT SELECT PWR SPLY	56	9		88	>	 [With 2.0L turbo gasoline engine]
Ę		7	70	В	IGN RLYAY (IPDM E/R) CONT	27	ж	-	88	W	- [With VR30 engine]
2	_	30 21 39 33 34	71	o	DR DOOR REQ SW	28	œ		91	GR	
		100000000000000000000000000000000000000	72	SB	PASS DOOR REQ SW	31	BR	•	94	GR	
		36 37 38 39 40 41	75	88	COMBI SW INPUT 5	32	9		96	W	,
			92	BG	COMBI SW INPUT 4	33	80		97	>	
			77	>	COMBI SW INPUT 3	34	>		86	BR	- [With VR30 engine and with BOSE system]
Terminal	I Color Of		78	>	COMBI SW INPUT 2	32	۵		86	>	- [Except with VR30 engine and with BOSE system]
No.	Wire	Signal Name [Specification]	79	9	COMBI SW INPUT 1	36	Ν				
30	BR	∄	80	_	TR LID OPNR SW	37	SB				
31	Μ	GND				38	91	4	Connector No.		M20
32	~	ENCD-B SIGNAL				40	۵				
33	œ	PUSH SWITCH A SIGNAL	Connector No.	or No.	M19	41	o		Connector Name	Name	WIRE TO WIRE
34	≥	PUSH SWITCH C SIGNAL				45	BR		Connector Type	Type	TH16MW-NH
36	>	ILLUMINATION CONTROL SIGNAL	Connect	Connector Name	WIRE TO WIRE	43	BR	,			
37	>	ENCD-A SIGNAL	Connector Type	or Type	TH80MW-CS16-TM4	44	BR		Œ		
, ×	ی	SELECT SWITCH SIGNAL				46	S.		立す		
S S	o e	PIISH SWITCH B SIGNAL	Œ			2	3 3		H.S.		
3 5		TONIDIC GLICALIST	夢			3 2	; ,				1 2 3 4 5 6 7 8
;	٠.	SHELD	\ \ \		100 040 000 000 110 040 000 000	10	- :				9 10 11 12 13 14 15 16
4.1	_	L/K_DETECTION SIGNAL				25	>				
					# 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23	9] ,	,			
						54	×				
Connector No.	or No.	M14				22	œ		Terminal	Color Of	Signal Name [Specification]
Connect	Connector Name	BCM (BODY CONTROL MODULE)		-		57	> :		S	Wire	
,			lerminal		Signal Name [Specification]	25	>		10	-	
connector lype	or type	IH40FB-NH	No.	wire ^		65	S 6		11 11	SHIELD	
ĄĮ.			,	,		1	,		:	14.	
THE STATE OF			7 0	9		T C	9 8		5 5	۵ د	
			, <	9 8		g G	3 8				
		20 S S S S S S S S S S S S S S S S S S S	r u	5 >		3 3	ś >				
		(3 / 10 / 1/ / 10 / 10 / 1/ / 1 / 10 / 10		- -		3 3	- 6				
			0 1	<u> </u>		8 8	2 إ				
			\	3		2	9				
	- 1-		00	>		7	>				
Terminal	0	Of Signal Name (Specification)	10	BG		72	В				
No.	Wire		11	BR		73	Α				
48	æ	PUSH-BTN IGN SW ILL PWR	12	97		74	٦				
25	ŋ	DONGLE LINK	13	S.		75	Μ				
54	>	COMM LINE	14	œ		9/	BR				
22	œ	RAIN SENSOR	15	_		77	В				
59	۵	CAN-L	16	>		78	SB				
9	_	CAN-H	18	3		79	۵	- [With VR30 engine]			
61	9	REAR WINDOW DEF RLY CONT	19	BR		79	*	- [With 2.0L turbo gasoline engine]			
62	~	STARTER RLY CONT	20	≥		88	9				
6.4	>	LKEY WARN BLIZZER	33	g		83	α				
ž	>	THE TWANT DOLLEN	1	2		70	=		_		

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AROU	ND	AROUND VIEW MONITOR SYSTEM (2.0L TURBO GASOLINE ENGINE)	L TURB	O GASC	OLINE ENGINE)							
Connector No	No.	M21	Terminal	Color Of	Cinnel Manual Connel Connel	35	97	- [With VR30 engine]	9/	SB	- [With 2.0L turbo gasoline engine]	
Connector Name	Name	WIRETOWIRE	No.	Wire	oignaí Nairre [opecification]	35	Μ	- [With 2.0L turbo gasoline engine]	9/	۸	- [With VR30 engine]	
Connector.	Name	WIRE TO WIRE		97		36	æ	- [With VR30 engine]	77	>		
Connector Type	Туре	TH24MW-NH	2	7	- [With VR30 engine]	36	^	- [With 2.0L turbo gasoline engine]	78	٦		
(2	SHIELD	- [With 2.0L turbo gasoline engine]	37	В	- [With VR30 engine]	79	9		
B			3	BR	- [With 2.0L turbo gasoline engine]	37	۸	- [With 2.0L turbo gasoline engine]	80	GR	- [With 2.0L turbo gasoline engine]	
\ <u>\</u>			3	В	- [With VR30 engine]	38	W		80	W	- [With VR30 engine]	
Ċ.		1 2 3 4 5 6 7 8 9 10 11 12	4	SHIELD	- [With VR30 engine]	39	Ь	- [With VR30 engine and without BOSE system]	81	В	- [With VR30 engine]	
		15 16 17 18 19	4	٨	- [With 2.0L turbo gasoline engine]	39	В	- [With 2.0L turbo gasoline engine]	81	В	- [With 2.0L turbo gasoline engine]	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	9	- [With VR30 engine]	39	^	- [With VR30 engine and with BOSE system]	82	9	- [With 2.0L turbo gasoline engine]	
			2	۸	- [With 2.0L turbo gasoline engine]	40	9		82	SHIELD	- [With VR30 engine]	
			9	BG	- [With VR30 engine]	41	7		83	В	- [With 2.0L turbo gasoline engine]	
Terminal (Color Of		9	BR	- [With 2.0L turbo gasoline engine]	42	œ	,	83	×	- [With VR30 engine]	
No.	Wire	olgnal ivame [opecification]	7	91	- [With VR30 engine]	43	SHIELD		84	BR	- [With VR30 engine]	
1	>		7	۵	- [With 2.0L turbo gasoline engine]	44	а		84	SHIELD	- [With 2.0L turbo gasoline engine]	
2	۵		00	9	- [With 2.0L turbo gasoline engine]	45	В	- [With 2.0L turbo gasoline engine]	85	BR	- [With VR30 engine]	
6	9		00	٩	- [With VR30 engine]	45	o	- (With VR30 engine)	85	G	- (With 2.0L turbo gasoline engine)	
4	SHIELD		6	91	- [With 2.0L turbo gasoline engine]	46	SHIELD		86	œ	- [With 2.0L turbo gasoline engine]	
ď	GR		σ	SHIFLD	- [With VR30 engine]	47	Ŀ		98	>	- [With VB30 engine]	
. 4	ی		Ç	>	0	48	8	- [Except with VR30 engine and with BOSE system]	87	. 9	- [With VR30 engine]	
	-		1	. 0		87	g	- Mith West contino and with BOSE system!	22	CHIELD	- Mith 2 Of turbo associacio	
. 00	- -		1 2	5 >		9 9	5 0	- [with vide eighte and with bode system]	ò	88	- [With YR30 anging]	
	٠		7 5			2	, ,		6	5 9	Daties 2 Of such according continual	
†	,		1	2 !		2	-		60	2 :	- [with 2.0c tubo gasonine engine]	
†	SHIELD	-	14	9		51	>		90	gg :	- [With 2.0L turbo gasoline engine]	
11	≥		15	BR	 [With 2.0L turbo gasoline engine] 	52	_	- [With 2.0L turbo gasoline engine]	90	>	- [With VR30 engine]	
12	SB		15	۵	- [With VR30 engine]	52	>	- [With VR30 engine]	95	_	 [With 2.0L turbo gasoline engine] 	
13	≥		16	SB	- [With DCM]	23	œ		95	×	- [With VR30 engine]	
14	9		16	^	- [Without DCM]	54	GR		93	æ	- [With VR30 engine]	
15	Я		17	٨		22	7		93	SHIELD	- [With 2.0L turbo gasoline engine]	
Н	SHIELD		18	1		26	d		94	Ж		
17	В		19	9		22	×		95	_	- [With 2.0L turbo gasoline engine]	
18	^		20	GR.		28	97		95	>	- [With VR30 engine]	
21	٨	1	21	ч		29	SB		96	×	- [With 2.0L turbo gasoline engine]	
			22	^		61	_		96	W	- [With VR30 engine]	
			23	_		62	۵	- [With 2.0L turbo gasoline engine]	- 64	1	- [With VR30 engine]	
Connector No.	No.	M22	24	BG	- [With 2.0L turbo gasoline engine]	62	>	- [With VR30 engine]	66	œ	- [With 2.0L turbo gasoline engine]	
		L CONTRACTOR L	24	>	- [With VR30 engine]	63	_		86	BR		
COLLIECTOI NAILE	all PN	WINE TO WINE	52	7	- [With 2.0L turbo gasoline engine]	64	×		66	BR	 [With VR30 engine and with BOSE system] 	
Connector Type	Type	TH80MW-CS16-TM4	25	SB	- [With VR30 engine]	99	æ		66	۵	- [With 2.0L turbo gasoline engine]	
			56	9	- [With VR30 engine]	89	۔		66	>	- [With VR30 engine and without BOSE system]	
Œ			56	*	- [With 2.0L turbo gasoline engine]	69	۵		100	BR	- [With VR30 engine]	
		8 E 8 E 8 E 8 E	27	œ		71	æ	- [With 2.0L turbo gasoline engine]	100	×	- [With 2.0L turbo gasoline engine]	
Ż.		5 F	29	91		71	œ	- [With VR30 engine]				
			30	88	- [With VR30 engine]	72	9	- [With VR30 engine]				
			30	м	- [With 2.0L turbo gasoline engine]	72	>	- [With 2.0L turbo gasoline engine]				
			31	SHIELD		73	97	- [With 2.0L turbo gasoline engine]				
			32	٦		73	SHIELD	- [With VR30 engine]				
			33	8	- [With VR30 engine]	74	_	- [With VR30 engine]				
			33	91	- [With 2.0L turbo gasoline engine]	74	91	- [With 2.0L turbo gasoline engine]				
			,	0.1111								

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[AROUND VIEW MONITOR SYSTEM]

<	W	IRI	N	G	D	IΑ	Gl	R	4٨	1	>

M34	WIRE TO WIRE		NH60MW-TS12				147836822	3 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Signal Name [Specification]				- [With DRPO]	Dalahara Dao	- [without DAPO]					,											- [With DRPO]	- [Without DRPO]			- [Without DRPO]	- [With DRPO]	11		- [Without DRPO]	- India Depoi	-[with DAPO]		-	- [Without DRPO]	- [With DRPO]					
П		T	٦					_				Color Of	Wire	,	>	æ	S	as	ac	7	Я	۵	141	A !	SR	>	Å	91	2 3	: (,	2	>	9	SB	,	CHIELD	8	BG	۵	ی	9	9	3 8	va .	æ	8S	98	M/B	_	,	a :	>	8
Connector No.	Connector Name		Connector Type	Q	彦	Į	2					Terminal	N		T	2	4		7	5	9	7		۰	6	10	11	13	10		or :	1/	18	19	20	20	21	22	23	23	24	25	3,5	25	07	27	28	53	53	30	3	49	25	55
								•	 [Except with VR30 engine and without ISS] 	- [With VR30 engine and without ISS]														,		-																												
В	SB .	_	£ 9	9	> <		Ь	SB	8	γ	98	88	ś (c	,	>	В	BR	۰	٥	BG	91	>		٠,	5	٦	9	~	- >			×	HK.	۵	>	Μ	91	>																
П	\neg	┪	\neg	┪	\neg	_	\rightarrow		_		_	т	_	+	╅		_	-	-		_	-	+	-	_							_	┪	┪	╛		П	Т	1															
	32	33	34	32	39	37	40	41	43	43	44	46	47		49	20	25	2	ñ	25	26	22		۾ ا	2	09	61	29	3 3		ŧ	s :	99	89	69	70	71	72	 -		_	_	_	_	_				_	_	_		_	_
CAN-H	CAN-L	POWER	34		M33 36	WIRE TO WIRE		NH60MW-TS12	43	43				(5) (5) (5) (5) (5) (5)		20	25		Signal Name [Specification]																	07			- [With DRPO]				- [Without DBPO]					- [Without DRPO]	- [With DRPO]					
L CAN-H	P CAN-L	W POWER	34		M33	WIRE TO WIRE		NH60MW-TS12	43			(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	2 5 5 8 11 14 17 20 25 25 25 25 25 25 25 25 25 25 25 25 25	27 17 10 10 10 10 10 10 10 10 10 10 10 10 10		20	65	Color Of	Signal Name (Specification)	Wire	95 - M						GR .	GR	5 3				SB .	. 91	· -	· -		W/8	LG - [With DRPO]	>	>	· cc	. 58	3 0	9		· .	96	1	>	- 5	æ:	>	89
CAN-H	P CAN-L	POWER	34										2 5 5 8 11 14 17 20 25 25 25 25 25 25 25 25 25 25 25 25 25	27 17 10 10 10 10 10 10 10 10 10 10 10 10 10		20	25		Signal Name (Specification)										5 3				SB .	. 91	· -				LG - [With DRPO]	>	>	╀	BG	3 0		23 L ·	24 Y -		1	>	- 5	æ:	>	29 8
L CAN-H	P CAN-L	16 W POWER			M33	WIRE TO WIRE		10 11 12 Connector Type NH60MW-TS12				6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2 5 5 8 11 14 17 20 25 25 25 25 25 25 25 25 25 25 25 25 25	27 17 10 10 10 10 10 10 10 10 10 10 10 10 10			CAN-H (CAN COMMINICATION CIRCUIT 2)	Terminal Color Of	Signal Name [Specification]	No. Wire					. e	7 R	GR .	89 6	5 3		i amero		13 SB .	14 LG .	· -	, v 16 Y	- 17	W/8	LG - [With DRPO]	, to 1	>	╀	22 BG	3 0	5 77			96	1	gine] 26 Y	- 0	2/ GR	28 V	29 B
L CAN-H	14 P CAN-L	16 W POWER	Connector Type TH12FW-NH 34		M33	WIRE TO WIRE	1 3 4 5 6	10 11 12				6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Signal Name [Specification]	CANALLICAN CONTRACTOR CIDCUIT 4)	CAN-H (LAN CUMINUM CIRCUIT 1)			CEDALIND Terminal Color Of	Signal Name [Specification]	No. Wire	2 W		To a state of the	C C C C C C C C C C C C C C C C C C C	CAN-L (CAN COMMUNICATION CIRCUIT 2) 6 R .	7 R		89 6	5 3	CILITY 44	MIZS	- T	13 SB .	. 91	· -	, v 16 Y	17 P	16 N w/8	2 LG - [With DRPO]	, to 1	>	╀	22 BG	Signal Name [Specification]	9 77			25 BG	72 r	gine] 26 Y	WEINT (WINT EVEL VIOLO BASOINE STRING)	KLINE [With VK30 engine] 2/ GR	IGN_5W 28 V	89

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28 SR AV COMM (H)	95	R IGN IFO	W IGN Fo	ε α	SB ACC	as >	V ACC [FOI VISO	34 Y BAI		Connector No. M101	TIMIT IOGENOS AN IOSIO		Connector Type TH40FW-NH				[55 [56] [59] [60] 61] 65 [66] 65 [66] 65 [69] 69] 70] 71 [72] [74]			Terminal Color Of Signal Name (Specification)	$^{+}$	SHIELD	SHIELD MANU	O SOUNE	SHIELD	44 L SUUND SIGNAL LH (-)	SHIELD	Я	B VOICE	50 P MACEODIONE SIGNAL	SHIELD	52 SHIELD MICROPHONE SIGNAL GND	54 W CAMERA GND	SHIELD	56 BR COMPOSITE IMAGE SIGNAL (+)	58 B CAMERA IMAGE SIGNAL	W	В	62 R SOUND SIGNAL RH (+)	SHIELD	۸	B TELVC	99 SHIELD
Terminal Color Of		$^{+}$	CAN-I D			7 -	S L CAN-H		Connector No. M97	Г	Connector Name BACK-UP LAIMP KELAY	Connector Type MS02FL-M2-LC		3	1.5.				lar C	No. Wire	2 SB - [With 2.0L turbo gasoline engine]	L	3 R	5 BR -		Connector No Macon			Connector Type TH24FW-NH	Œ		H.S.	2030	200000000000000000000000000000000000000			Terminal Color Of Sirnal Nama (Specification)	Wire	16 LG AV COMM (L)	Ь	Я	BR REVE	22 B GND
DL TURBO GASOLINE ENGINE) [Connector No. M75		Connector Name SONAR CONTROL UNIT	Connector Tyne TH3//EW-NH	7	4	事		6 5 4	[) lar	No. Wire CENTER SENSOR SIGNAL FRONT RH	Н		GR CORNER SENS	S L CAN-H	. «	9	10 BG CORNER SENSOR SIGNAL REAR RH	W IGN F	-	В	В	R.	19 P BUZZEK POWEK SUPPLY	×			Connector No. M77	Connector Name STEERING ANGLE SENSOR	Connector Type TH08FW-NH	C		K		1 2 4	ıc					
AROUND VIEW MONITOR SYSTEM (2.0L	22 0	20 20	2 0	< 00	+	7 to	1	À da	7 02 × 02	SB	72 W .		Connector No.	8	.	Connector Type TH12FW-NH			1 2 3 4 5	7 8 9 10 11 12			Terminal Color Of Circul Masso (Consideration)	d)		W GND	PUS		^ וננט	8 W ENCD-A SIGNAL	-	80	12 L L/R_DETECTION SIGNAL										

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[AROUND VIEW MONITOR SYSTEM]

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Connector No. M137	Connector Name JOINT CONNECTOR-M10	Т	7	E	5 4 3 2 1	10 9 8	15 14 13	22 21 20 19		Terminal Color Of		1 8 .	2 B .	э в	4 B -	8	+		+	+) -	14 L	15 L	16 L	19 R -	20 R -	Z1 R -	22 R .		Connector No. M144		Connector Name TCU	Connector Type TH40FB-NH	ı				18 17 16 12 11 10 7 6 5 3 2 1	37 32 31 30 28 28 27 28							
	,	9 3			or No. M135	1	. 1	or Type 24342_4GA2A		6 5 4 3 2	11 10 9	18 17 16 15 14 13	24 23 22 21 20 19				Wire			0 00			. 91	. 91	. 16		- [With	4	SB - [With 2.0L turbo gasoline engine]	SR - [With 2 OI turbo gasoline engine]	_	+	SB - [With 2.0L turbo gasoline engine]	Y - [With VR30 engine]	SB - [With 2.0L turbo gasoline engine]	Y - [With VR30 engine]	SHIELD -			SHIELD -						
99	72	S 8	36		Connector No.	Connector Name		Connector Type	Œ	事	H.S.					Terminal	o .	1 (7	n 4		9	6	10	11	13	13	14	14	d t	16	19	17	17	18	18	19	20	21	22	23	24				
68 W VOICE GUIDANCE SIGNAL INPUT (+) Connector No. M133	Connector Name FUSE BLOCK (J/B)	Т	1			2	(41) (52) (52) (41) (52) (53) (53) (53) (53) (53) (53) (53) (53			Terminal Color Of		10C V .	12C L .	13C L	14C Y -	~	16C R	1/1 1	2 0	L 00	1		21C L -	22C L .	23C L -	Н	26C SB -	+	28C W	+	30C R	╀	┡	8	33C R - [With 2.0L turbo gasoline engine]	W/B	35C SB .	36C R -	37C W .	38C SB .	39C V	3C P .	40C G -	\sqcup	SC P -	
VOICE GUIDANCE SIGNAL INPUT (+)	SHIELD	MICROPHONE SIGNAL	MICROPHONE SIGNAL (Without telematics system)	MICROPHONE SIGNAL [With telematics system]	CAMERA POWER SUPPLY			M105	DISPLAY CONTROL UNIT	Tvco 1554987-6	0.0000000000000000000000000000000000000	Ę	Ē		92 93	94			Signal Name [Specification]	(+) SQ(1)	(A) (C) (C) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	SHIELD			M110	BLIZZER		TH04FW-NH			 <u>K</u>	3 5				Signal Name (Specification)	office result [Specification]									
68 W	SHIELD	70	9 0	د ×	74 R	1		Connector No.	Connector Name	Connector Type	1	_	٤	2				Torminal Color Of	No Wire	$^{+}$	+	94 SHIELD	1		Connector No.	Connector Name		Connector Type			χ. Si	1				al (No. Wire	2 P	3 GR							

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AROL	ND V	/IEW MONITOR SYST	2 TURE	30 GA	EM (2.0L TURBO GASOLINE ENGINE)						
Terminal	Color Of	Cianal Mamo [Cnorification]	17	Α		80	В		9	L	
No.	Wire	ognativante [operation]	18	ď		6	æ		7	γ	
1	>	BAT	19	_		10	œ		80	٠	
2	SB	ACC [For 2.0L turbo gasoline engine]	20	SHIELD		11	œ		o	>	
2	>	ACC [For VR30 engine]	21	BR		12	ж		10	٨	
9	SB	ACC OUTPUT	22	80		13	SB		11	>	
2	BR	SOS SWITCH LED SIGNAL	23	g		14	SB		12	>	
9	_	CAN-H	24	_		15	SB		13	SB	
7	Ы	CAN-L	25	œ		16	٦	- [With 2.0L turbo gasoline engine]	14	SB	
10	~	IGN [For VR30 engine]	56	ø		16	SB	- [With VR30 engine]	15	SB	
10	*	IGN [For 2.0L turbo gasoline engine]	30	>		17	_	- [With 2.0L turbo gasoline engine]	16	SB	
11	SHIELD	MICROPHONE SIGNAL GN	31	GR.		17	SB	- [With VR30 engine]	17	SB	
12	œ	MICROPHONE OUTPUT SIGNAL	32	SB		18	7	- [With 2.0L turbo gasoline engine]	18	SB	
16	GTBIHS	SHIELD	33	BG		18	SB	- [With VR30 engine]	19	91	
17	9	MICROPHONE SIGNAL	34	Μ		19	BR	- [With VR30 engine]	20	91	
18	7	MICROPHONE VCC	35	9		19	91	- [With 2.0L turbo gasoline engine]	21	91	
56	SB	AV COMM (H)	36	~		50	BR.	- [With VR30 engine]	22	97	
27	91	AV COMM (L)	37	SHIELD		20	91	- [With 2.0L turbo gasoline engine]	23	91	
28	8	GROUND	38	В		21	BR	- [With VR30 engine]	24	91	
53	8	GROUND	39	Μ		21	91	- [With 2.0L turbo gasoline engine]			
30	SHIELD	SHIELD	40	В		22	æ	- [With 2.0L turbo gasoline engine]			
31	8	SOUND SIGNAL (+)	41	æ		22	SB	- [With VR30 engine and without ISS]	Connector No.	l	M175
32	Μ	SOUND SIGNAL (-)	42	80		22	>	- [With VR30 engine and with ISS]	·		LOTE COLUMN
37	9	SOS CALL SWITCH SIGNAL	43	9		23	~	- [With 2.0L turbo gasoline engine]	Connector Name	Name	JOIN CONNECTOR-MOS
			44	æ		23	SB	- [With VR30 engine and without ISS]	Connector Type	r Type	NH20FL-DC
			45	88		23	>	- [With VR30 engine and with ISS]			
Connector No.	No.	M146	46	80		24	œ	- [With 2.0L turbo gasoline engine]	Œ		
N and the second	No.	CELICIAN				24	SB	- [With VR30 engine and without ISS]	· ·		
Connector	Name	WIRE 10 WIRE				24	>	- [With VR30 engine and with ISS]	Š.		8 7 6 5 4 3 2 1
Connector Type	Type	TK36MW-NS10	Connector No.	or No.	M173						20 19 17 16 15 14 13 12 11 10
á			Connect	Connector Name	IOINT CONNECTOR-M03						
彦						Connector No.	r No.	M174			
Ę			Connec	Connector Type	24342_4GA2A	Connector Name	r Name	JOINT CONNECTOR-M04			
		1 2 3 4 5 [1] [2] [3] [4] [3] [4] [3] [4] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	ą						Terminal	_	Signal Name [Specification]
			唐			Connector Type	r Type	24342_4GA2A	No.	Wire	
) I		φ 4	ą			1	_	
				9	11 10 9 8	B			2	_	
					17 16 15 14	T C		5 4 3	m	_	
Terminal	Color Of	f Signal Name [Specification]			24 23 22 21 20 19	5		11 10 9 8 7	4	_	
No.	Wire							17 16 15 14	S	٦	
2	œ							24 23 22 21 20 19	9	_	
80	GR		Terminal	al Color Of	Of Signal Name [Specification]				7	7	
6	۸		No.	Wire					00	7	
10	BG		1	_		Terminal	Color Of	Cinnal Namo [Concidention]	10	Ь	
11	7		2	٦		No.	Wire	organia realite [obscrincation]	11	Ь	
12	d		3	_		1	7		12	d	
13	SB		4	_		2	_		13	۵	
14	>		2	_		e	_		14	Ь	,
15	b		9	-		4	_		15	۵	
16	BR		7	œ		2	٦		16	Ь	- [With VR30 engine]

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	Terminal Color Of Stans Name (Sneetfication)	No. Wire	1 Y .	2 BG -	4 L	5 P	. 9	8 B	- B	10 р	٦	9	، ر	14 B - [With rear view monitor]	≤ 60	*	16 R - [With rear view monitor]	W			Connector No. T50	Connector Name REAR CAMERA		Connector Type TH08MW-NH	Q			1.3.	- 0				Terminal Color Of Signal Name (Specification)		1 SHIELD -	4 G	5 R	7 8 .								
GASOLINE ENGINE)	lo. M178	ame IOINT CONNECTOR-MOR		ype NH20FW-DC				987 21	20 1817 1514 1312 1110				Color Of Signal Name [Specification]	WIFE	2 00	8	. 8		B - [With VR30 engine]	W - [With 2.0L turbo gasoline engine]	4	- [With 2	_	W - [With 2.0L turbo gasoline engine]		W - [With 2.0L turbo gasoline engine]		B - [With VR30 engine]	W - [With 2.0L turbo gasoline engine]	BR -	BR .	BR .			lo. T48	we WIRE TO WIRE		ype NS16FW-CS				7654 7391	1 C	16 15 14 13 12 11 10 9 8		
.0L TURBO	Connector No	Connector Name		Connector Type	4	B	Š	2				- 1	le (, NO.	7 7	_	∞	6	10	10	11	11	12	12	13	13	14	15	15	17	18	20			Connector No.	Connector Name		Connector Type	[Į	2				
AROUND VIEW MONITOR SYSTEM (2.0L TURBO GASOLINE ENGINE)	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	 [With 2.0L turbo gasoline engine] 	- [With VR30 engine and with ISS]	 [Except with VR30 engine and with ISS] 	- [With VR30 engine and with ISS]	 [Except with VR30 engine and with ISS] 			M177	JOINT CONNECTOR-M07		24342_4GA2A		6 5 4 3 2 1	12 11 10 9 8 7	17 16 15 14	24 23 22 21 20 19			Signal Name [Specification]		1												,									1		
A DNUC	R	۵.	R	В	W	R	W			Connector No.	Connector Name		Connector Type			'n					0	. Wire	7	٦	7	٦	٦	٦	Ь	Р	Ь	Ь	۵	Р	٦	. 1	l l	٦	۔	T	*	W	W	Ь	Ь	Ь.
ARC	16	17	17	19	19	20	20			Conne	Conne		Conne	q£		1					Terminal	Š	7	7	33	4	S	9	7	00	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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VR ENGINE JOINT CONNECTOR -M03 (M173) 16 M20 (Bec) M144 .: DISPLAY CONTROL UNIT (M100), (M101) (b) (IC): With ICC (OI): Without ICC (OI): Without telematics \(\sqrt{\width}\): With telematics \(\sqrt{\PM}\): With automatic drive positioner \(\sqrt{\QM}\): Without automatic drive positioner \(\sqrt{\QM}\): Without automatic drive positioner MULTIFUNCTION SWITCH (M55) *: This connector is not shown in "Harness Layout". INTEGRAL SWITCH (M1), (M2), (M3) AROUND VIEW MONITOR SYSTEM (VR ENGINE) FUSE BLOCK (J/B) (M132),(M133) BACK-UP LAMP RELAY M97 JOINT CONNECTOR A/T ASSEMBLY (F2) _ E47 E10 (9EM) IGNITION SWITCH ON or START TCM **#**100 IGNITION SWITCH ACC or ON ₽ |-2016/02/15 BATTERY

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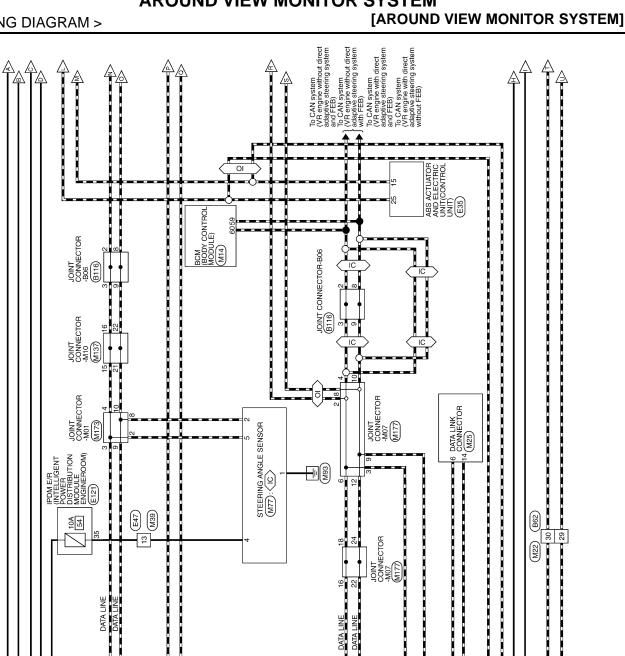
M

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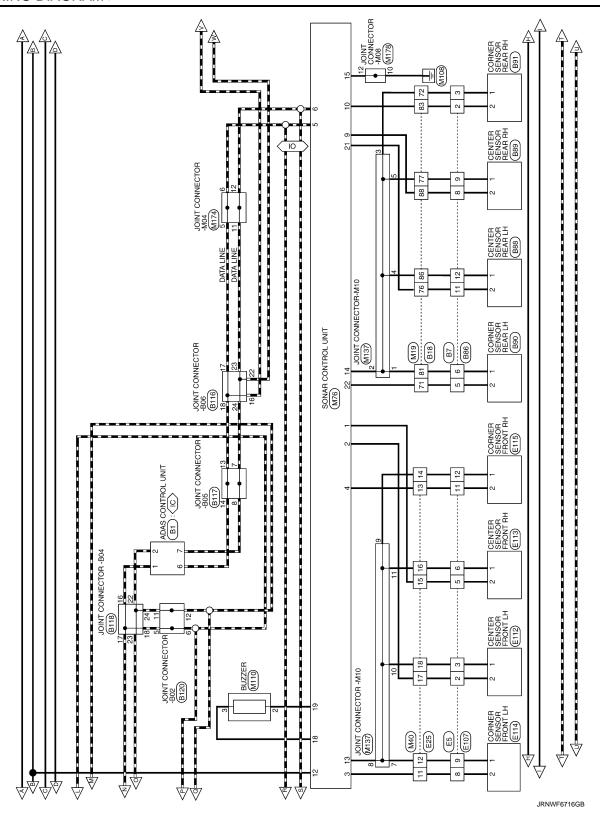
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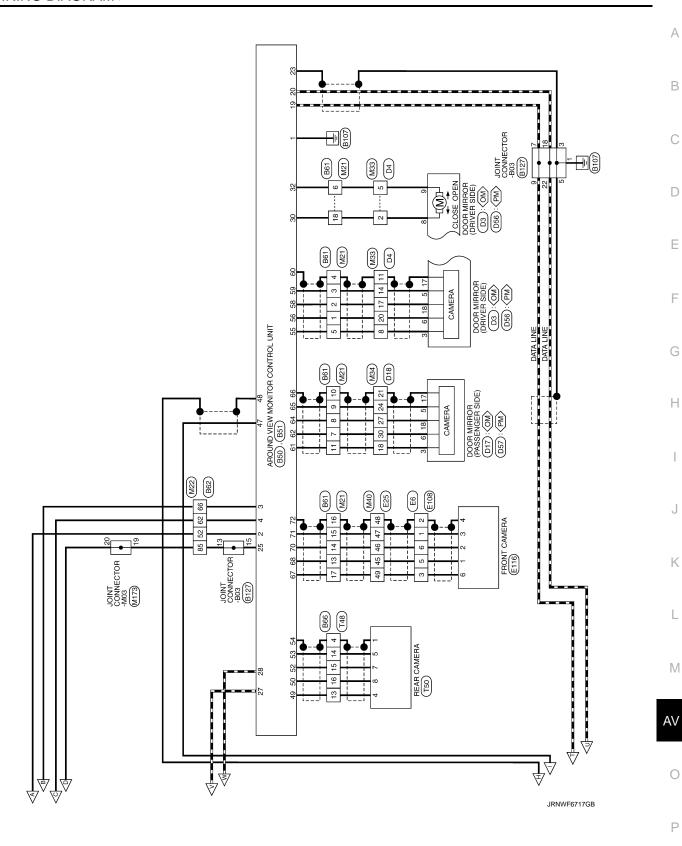


AV-511 Revision: November 2016 2016 Q50

CAN GATEWAY
(M24): < IC>

JOINT CONNECTOR -M05 (M175)





-	4	91 GR -	94 GR .	- A 96	. v 26	98 BR - [With VR30 engine and with BOSE system]	98 Y - [Except with VR30 engine and with BOSE system]			Connector No. B50	Connector Name AROUND VIEW MONITOR CONTROL UNIT	T	Connector Type TH40FW-NH	€	AHT		1 3 19 23 25 27 28				Terminal Color Of Signal Name (Specification)	No. Wire	1 B GND	2 Y BAT	3 LG IGN	4 P ACC	Ь	Pl Pl	SHIELD	25 BG REVERSE SIGNAL	_	P CAN-L [Wit	œ	Y CAN-L [Without ADAS	æ	W	32 G RETRACT MOTOR OPERATING SIGNAL (CLOSE)						_			,		
									•			,					,	,													,	,	 [Without paddle shift] 	- [With paddle shift]				- [With VR30 engine]	- [With 2.0L turbo gasoline engine]					Catalan all Land Assets	- [Without paddle shift]	- [With paddle shift]		
-	В	В	91	Ь	3	SB	97	Ь	SB	Н	+	+	œ 3	+	+	9	H	╀	H	H	GR.	9	9	BG	BR	>	-	+	+	+	3	+	+	+	4	В	SB	^	*	8	æ	S.	+	+	+	+	В	ď
	32	33	34	35	36	37	38	40	41	42	43	44	46	8 2	25	53	54	55	57	28	59	09	61	62	63	64	99	70	71	72	£ 3	7	75	75	76	77	78	79	79	81	82	83	84	5 6	ŝ	82	86	88
- 1	GR .	BR				or No. B18	WIRE TO WIRE		or Type TH80FW-CS16-TM4			5 2		1 8			Color Of	Wire Signal Name [Specification]	· ·	. 9	- 1	. 91	γ .		۸			BG .	. 91	GR	~				BR -			۰	R - [With 2.0L turbo gasoline engine]	Y - [With VR30 engine]	P [With 2.0L turbo gasoline engine and without gateway]	V - (With 2.0) turbo pasoline engine and with pateway)	t			· ·	R .	B [With W830 engine]
GINE,	10	11	12			Connector No.	omeN Johnson	COLLICCIO	Connector Type	4	厚	Į.					Terminal	No.	1	2	3	4	5	9	7	8	10	11	12	13	14	15	16	18	13	20	22	23	24	24	52	25	25	3 2	97	27	28	3.1
AROUND VIEW MONITOR SYSTEM (VR ENGINE)		TINITIONED	INOL ON!	TH24FW-NH				98765 21	14 0				Signal Name [Specification]	H-N&2	CAN-I	GROUND	ITS COMM-H	ITS COMM-L	CHASSIS COMM-H	CHASSIS COMM-L	IGNITION [Except with VR30 engine and without ISS]	IGNITION [VR30 engine and without ISS]	BRAKE HOLD RLY DRIVE SIGNAL	STEERING SW SIGNAL GROUND	STEERING SW SIGNAL				WIRE TO WIRE		TH12MW-NH				1 2 3 4 5 6		91011			4	Signal Name [Specification]							

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[AROUND VIEW MONITOR SYSTEM]

< WIRING	DIAGRAM >	>
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16 V -	17 р .	+	19 R	+		23 W -	24 BG - [With 2.0L turbo gasoline engine]	24 V - [With VR30 engine]	L - [With	SB	υ <u>:</u>	+	2/ K	╀	Ь	31 SHIELD -	1	33 B - [With VR30 engine]	T	SHIELD	35 LG - [With VR30 engine] 35 W - [With 2.0t turbo easoline engine]	æ	36 W - [With 2.0L turbo gasoline engine]	P - (With 2.0L turb	œ }	37 W - [With 2.UL turbo gasoline engine and with BUSE system] 38 W	P - [Wit	œ	39 W - [With VR30 engine and with BOSE system]	╁	42 R -	43 SHIELD -	44 P -	45 B - [With 2.0L turbo gasoline engine]	45 G - [With VR30 engine]	46 SHIELD -	47 G	H	H	. v 20	
SHIELD -		. ·	· · ·		o. B62	AMIDE TO MIDE		pe TH80FW-CS16-TM4				C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Color Of Sirmal Mamo [Sasasifican]	Wire Specification	BR - [With 2.0L turbo gasoline engine and without BOSE System]	+	 With 2.0L turbo gasoline engine and with BOSE system] 	L - (With VR30 engine) SHELD - (With 2.0L turbo gasoline engine)	L	П	- [With VR30	SHIELD - [With VR30 engine]	- [With 2.0L turbo gasoline engine] - [With VR30 engine]	- [With		BR - [With 2.0L turbo gasoline engine] B - Invite 2.0L turbo gasoline and with BOSE corton!	۲	П	Y [With 2.0L turbo gasoline engine and without BOSE System]	B - [With VR30 engine and with BOSE system]	G - [With 2.0L turbo gasoline engine]	Y - [With VR30 engine and without BOSE system]	LG - [With 2.0L turbo gasoline engine]	SHIELD - [With VR30 engine]		- GR	· ·	
16 S	17	18	21		Connector No.	Connector Name	COLLINECTOR ING	Connector Type	þ	B	Ě					Terminal Co	No.	1	1	1	2 S	ю	3	+	†	4 5	2	9	9 1	, ,	7	7	00	8	8	6	6	+	11	12	13
					17	3 4	υ Ç	6 01 11 2			Signal Name [Specification]												-	7	5 4	18 17 16 15 14 13			pecification]												
Connector No. B60	Connector Name WIRE TO WIRE	I	Connector Type TH16FW-NH	Œ		13.	2 2				nal Color Of	No. Wire	10 Y	t	H	14 R -			Connector No. B61	Connector Name WIRE TO WIRE	П	1	(香)		12 11	24 23 22 21 20 19		- 1	Signal Name Specification No Mire	+	2 P	3 LG .	4 SHIELD -	5 GR .	. 9	. 1 2	ac 80	\vdash	10 SHIELD	11 W	12 P
B51 Connector No. B60	AROUND VIEW MONITOR CONTROL UNIT		TH32FW-NH Connector Type TH16FW-NH	€		8 7 8 5	49 53 55 59 61 65 67 71	2			Color Of	o.	t	REAR CAMERA COMMUNICATION SIGNAL 12	LY 13			_	AL Connector No.	PPLY Connector Name	Т	IGNAL (-)	<u></u>	ER SUPPLY	12 11 10 9 8 7	SIGNAL (+) [24 23 22 21 20]	FRONT CAMERA COMMUNICATION	PPLY	Color Of Wire	1	2	H	┪	Н		. 1 2		\vdash	t	┝	H

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Signal Name [Specification] CENTER SENSOR REAR LH Connector Name

54	GR	•	H	œ	- [With V
55	٦		\dashv	SHIELD	- [With 2.0L turl
56	>		94	œ	
57	œ		95	٦	- [With 2.0L turl
58	97		95	>	- [With V
59	Ь	•	96	Я	- [With 2.0L turl
61	1		96	Μ	v Ariw) -
62	Ь	- [With VR30 engine]	- 6	_	- [With V
62	۸	- [With 2.0L turbo gasoline engine]	6	æ	- [With 2.0L turbo gasoline
63	7		-66	3	- [With 2.0L turbo gasoline e
64	Μ	-	86	91	
99	97		66	BR	- [With VR30 engine
68	٦	•	66	Ь	- [With 2.0L turl
69	d		66	٨	 [With VR30 engine a
71	GR	- [With 2.0L turbo gasoline engine]	100	BR	- [With V
71	В	- [With VR30 engine]	100	Μ	- [With 2.0L turl
72	9	- [With VR30 engine]			
72	γ	 [With 2.0L turbo gasoline engine] 			
73	В	- [With 2.0L turbo gasoline engine]	Connector No.	No.	998
73	SHIELD	- [With VR30 engine]	Connector Name	ame	WIRE TO WIRE
74	BG	 [With 2.0L turbo gasoline engine] 			
74	٦	- [With VR30 engine]	Connector Type	ype	NS16MW-CS
75	GR	 [With 2.0L turbo gasoline engine] 	4		
75	^	- [With VR30 engine]	彦		
76	GR	- [With VR30 engine]	Ť		,
76	^	 [With 2.0L turbo gasoline engine] 	21		က
77	Ь	•			8 9 10 11
78	1				
79	œ				
80	GR	- [With 2.0L turbo gasoline engine]			
80	W	- [With VR30 engine]	Terminal	Color Of	Signal Name
81	В	- [With VR30 engine]	No.	Wire	900
81	œ	 [With 2.0L turbo gasoline engine] 	1	œ	
82	9	 [With 2.0L turbo gasoline engine] 	2	BG	
82	SHIELD	- [With VR30 engine]	1	SHIELD	
83	œ	 [With 2.0L turbo gasoline engine] 	2	>	
83	Α	- [With VR30 engine]	9	R	
84	BR	- [With VR30 engine]	80	œ	
84	SHIELD	- [With 2.0L turbo gasoline engine]	6	۷	
85	BG	- [With VR30 engine]	10	۵	
85	9	 [With 2.0L turbo gasoline engine] 	+	<u>ه</u>	
86	æ	 [With 2.0L turbo gasoline engine] 	†	SHIELD	- [With rear
98	×	- [With VR30 engine]	13	≥	- [With arour
87	97	- [With VR30 engine]	14	80	- [With rear
87	SHIELD	 [With 2.0L turbo gasoline engine] 	14	g	- [With arour
89	FIG		15	_	- [With arour
90	Ь	 [With 2.0L turbo gasoline engine] 	15	>	- [With rear
90	>	- [With VR30 engine]	16	<u>в</u>	- [With arour
92	٦	 (With 2.0L turbo gasoline engine) 	16	œ	- [With rear
92	≥	- [With VR30 engine]			

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[AROUND VIEW MONITOR SYSTEM]

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AROUND		ا ا	_						
	- [With 2.0L turbo gasoline engine]		14 BG		Connector No.	D4	40	۵	 [Color of wire differs depending on production]
60	- [With VR30 engine]		15 BG		Connector Name	WIRE TO WIRE	41	+	
-	- [With		\dashv				43	BG	
10 R	- [With VR30 engine]		18 LG		Connector Type	NH60FW-TS12	44	>	
11 R			\dashv		q		46	4	
12 R			20 LG		B		47		•
13 W					Ę	U	49	BR	
14 W					2	SMSS	20	8	
15 W		S	Connector No.	D3		2 7 7 7 8 8 8 6 8 8 7 7 2 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	52	>	
17 SHIELD		[8	N soften				53	L	
18 B		5	Connector Name	DOOR MIRKOR (DRIVER SIDE)			22	GR	- [Color of wire differs depending on production]
19 B	- [With 2.0L turbo gasoline engine]	S	Connector Type	TH24MW-NH			55	SB	- [Color of wire differs depending on production]
19 GR					Terminal Color Of		29	BR	,
	- [With VR30 engine]	I			No. Wire	olgnar Marrie (opecification)	57	œ	
20 SHIELD	D - [With 2.0L turbo gasoline engine]	_	, <u>'</u>		2 SB		85	_	
21 B	- [With 2.0L turbo gasoline engine]	•	ė	121110 765 32	4 BG	•	29	۸	
21 GR	- [With VR30 engine]			10 18 17	5 R		09	9	
22 W					9		61	BG	
23 W					2 re		62	>	
					.8		63	SB	
		Ter	Terminal Color Of				64	H	
		_		Signal Name [Specification]	10 ×		9	L	
Connector No.	8127		2 R		11 SHIELD		99	BB	
	Г		9		12 BG		89	>	
Connector Name	JOIN CONNECTOR-803		5 B		H		69	_	
Connector Type	NH20FG-DC		× 9		14 B		70	A	
-		_	-		H	,	7.1	91	,
E			10 Y		16 GR		72	۵	
		L	11 GR		H				
Ź	987654321	L	\vdash		18 GR				
	15	Ĺ	14 B		19 R		Connec	Connector No.	D17
		L	17 SHIELD		H		,		
		L	18 R		21 16		Connec	Connector Name	DOUR MIRKOR (PASSENGER SIDE)
		Ĺ	19 B		22 W		Connec	Connector Type	TH24MW-NH
Terminal Color Of	JC Stand Name Constitution				23 L		٥		
No. Wire					24 6		ß		
1 B					25 BR		ŧ		
2 SHIELD	- Q				26 R	-	Ġ.	71	121110 765 32
3 SHIELD	- Q				27 BR				191817
4 SHIELD	- Q				28 V				
S SHIELD	- g				29 B				
9 b					30 W				
7 P					31 P		Termin	Terminal Color Of	[Sirrol Name (Secretion)
8 P					32 Y		No.	Wire	olgilar ivalite (operitication)
9 6					33 BR	-	2	ч	-
10 LG					34 L		e	W	
ŝ	- [With				Н		2	8	
П					36 GR		9	В	
11 SHIELD	D - [With 2.0L turbo gasoline engine]				Н	•	7		
13 BG					40 LG	- [Color of wire differs depending on production]	10	ŋ	

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[AROUND VIEW MONITOR SYSTEM]

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	Connector No. E5	Connector Name WIRE TO WIRE		Connector Type RH12MB	Q	(中方)		103456	Ç				Terminal Color Of	No. Wire Signal Name [Specification]	2 BR -	з р	- S SB		_	- GR	11 W -	12 8			Connector No. E6		Connector Name WIRE TO WIRE	Connector Type RS06MB				123	4 5 6				Terminal Color Of Simpl Name (Specification)	No. Wire Signal Name [Specification]	1 6	2 SHIELD -	3 R		H								
	24 G -			Connector No. D57	Connector Name DOOR MIRROR (PASSENGER SIDE)	Т	Connector Type TH24MW-NH	4			12 2 2 2 2 1 1 2 2 1	10 18 17	1 0 0			Terminal Color Of Signal Name (Concification)	No. Wire Signal Name (Specimeaton)	1 L	2 R	3 W	S B		7 BG .	91 8		┝	L	12 Y	13 ×	14 B -	17 SHIELD -	18 6	19 B -	\dashv	-	23 W -	24 GR -														
																		D56		DOOR INITROR (DRIVER SIDE)	TH24MW-NH				12 14 14 0 8 7 8 5 1 3 2 1	1000	13 10 17			3	oignal Name [opermeation]																				
ilNE)	52 P	25 L	y >56	57 R	Н	59 R	4	63 B	-	H	H	M 69	7 02	71 BG	72 Y			Connector No.		nnector Name	Connector Type				E,S					Terminal Color Of	No. Wire	1 GR	2 R	\dashv	5 B	M 9	1 4	8 SB	d 6	10 Y	11 GR	12 BG	-	14 B	17 SHIELD	18 R	┞	L	22 16	23 W	┨
S EN	Ц	_				_								<u> </u>				ප		3_	8	JL	Œ	5	_		_			1º												_		_				<u> </u>	_]
AROUND VIEW MONITOR SYSTEM (VR ENGINE)				SHIELD -	. 9				Connector No. D18	201W OT 201W		Connector Type NH60FW-TS12			(33333044443333) (SERIALE ELE		2277 78 88 68 67 3 3 3 2 2 2 2 3 8 3 3 3 3 3 3 3 3 3 3 3				Terminal Color Of	Wire Signal Name [Specification]	GR			BR		. 91	M		- 1	GR -				- 8	·	- 8	. 9	SHIELD -	GR .			BR .	^	. 9	۸			- 91	

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AROL	ND V	AROUND VIEW MONITOR SYSTEM (VR ENGINE)	ENGINE								
Connector No.	r No.	E10	38	BR		17	BR	- [With VR30 engine]	65	GR	 [Color of wire differs depending on production]
Connector Name	r Name	WIRE TO WIRE	39	S.		17	g.	 [With 2.0L turbo gasoline engine] 	99	GR	
			40	SHIELD		18	9	- [With 2.0L turbo gasoline engine]	29	LG	
Connector Type	r Type	SAA36MB-RS8-SHZ8	41	В		18	d	- [With VR30 engine]	89	BG	
4			42	ч		19	>		69	L	
B			43	>		31	×	 [With 2.0L turbo gasoline engine] 	70	œ	-
, e		13 14 15 16	44	SHIELD		31	٠	- [With VR30 engine]	7.1	G	- [With 2.0L turbo gasoline engine]
6		4 1711811928232428	45	>		32	9	- [With 2.0L turbo gasoline engine]	7.1	LG	- [With VR30 engine]
		5 6 28272829303132334	46	Ь		32	US.	- [With VR30 engine]	7.2	٦	- [With 2.0L turbo gasoline engine]
		7 8 353637383340444243	47	1		33	7	- [With VR30 engine]	7.2	^	- [With VR30 engine]
			48	91		33	Å	- [With 2.0L turbo gasoline engine]	73	9	- [With VR30 engine]
			49	BG		34	۵		73	W	- [With 2.0L turbo gasoline engine]
Terminal	Color Of	Simpl Manuel Consideration	20	SHIELD		35	SR GR		74	BR	- [With VR30 engine]
No.	Wire	ognal Name [opecification]	51	*		36	æ		74	7	- [With 2.0L turbo gasoline engine]
1	æ		52	9		37	٦	- [With 2.0L turbo gasoline engine]	75	Ь	- [With 2.0L turbo gasoline engine and without gateway]
2	Я					37	۸	- [With VR30 engine]	7.5	В	- [With 2.0L turbo gasoline engine and with gateway]
m	97					38	٦	- [With VR30 engine]	75	>	- [With VR30 engine]
4	œ		Connector No.	or No.	E25	38	d	- [With 2.0L turbo gasoline engine and without gateway]	9/	9	
2	9		1	Commonton Monto	TOWN OF TOWN	38	В	- [With 2.0L turbo gasoline engine and with gateway]	7.7	Υ	
7	^		namer.	a indine	WINE IO WINE	39	BR	- [With 2.0L turbo gasoline engine]	78	97	- [With 2.0L turbo gasoline engine and with ADAS]
00	*		Connector Type	r Type	TH80FW-CS16-TM4	39	>	- [With VR30 engine]	78	Ь	- [With VR30 engine]
6	*			_		40	SB		78	>	- [With 2.0L turbo gasoline engine and without ADAS]
10	BG		1			41	91		62	SB	
1	2		Ť			44	>		OS	ی	
12	S.		SI		2	45	-	- [With 2 0] turbo gasoline engine]	2	~	
2	-				2	45	3	- Mith Wash anging	83	>	
1 4	۷ >					46	ď	- [With VR30 engine]	83	. BB	- IMith 2 01 turbo assoline angine
L T						2	,	Datish 2 of south processes	3 8	5	Control Stock (MDO) control
15	3 (40	. ر	- [with 2.0c turbo gasoline engine]	00	۷ ر	- [with vk50 engine]
a !	. و			-		4	9		8 8	2]	
17	-		lerminal		Signal Name [Specification]	84	SHED		86	28	
18	۵		No.	Wire		49	~		87	g	
19	GR		т	BG		20	BB	- [With VR30 engine]	88	FG	
20	9		9	>		20	GR	 [With 2.0L turbo gasoline engine] 	90	G	- [With VR30 engine]
21	GR		7	٦		51	٦		90	GR	- [With 2.0L turbo gasoline engine]
22	Μ		00	BG	- [With VR30 engine]	52	Μ		91	9	
23	9		∞	BR	- [With 2.0L turbo gasoline engine]	23	۸		93	BG	
24	BG		6	8	- [With 2.0L turbo gasoline engine]	54	d	- [With VR30 engine]	94	GR	- [With VR30 engine]
25	>		6	æ	- [With VR30 engine] [Color of wire differs depending on production]	54	Μ	- [With 2.0L turbo gasoline engine]	94	7	- [With 2.0L turbo gasoline engine]
56	BR		6	91	- [With VR30 engine] [Color of wire differs depending on production]	55	8	- [With 2.0L turbo gasoline engine]	92	BG	- [With VR30 engine]
27	>		10	BR		25	Μ	- [With VR30 engine]	95	۵	- [With 2.0L turbo gasoline engine and without gateway]
28	BG		11	_		26	BG	- [With 2.0L turbo gasoline engine]	95	œ	- [With 2.0L turbo gasoline engine and with gateway]
29	97		12	æ	- [With VR30 engine]	26	SB	- [With VR30 engine]	96	W	
30	g		12	۵	- [With 2.0L turbo gasoline engine]	57	BG	- [With VR30 engine]	46	PT	
31	>		13	SHIELD	L	57	Μ	- [With 2.0L turbo gasoline engine]	86	_	
32	œ		13	>	- [With VR30 engine]	28	æ	- [Color of wire differs depending on production]	66	97	- [With 2.0L turbo gasoline engine]
33	8		14	а		28	B/W	- [Color of wire differs depending on production]	66	Ь	- [With VR30 engine]
34	>		15	æ	- [With 2.0L turbo gasoline engine]	29	Α		100	SHIELD	
35	97		15	SB	- [With VR30 engine]	61	æ				
36	Α		16	BR	- [With 2.0L turbo gasoline engine]	64	>				
37	>		16	>	- [With VR30 engine]	65	BR	- [Color of wire differs depending on production]			

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[AROUND VIEW MONITOR SYSTEM]

ARCOLAND VIEW MONITOR SYSTEM (VR BROINE) Contractive by the contra		Connector No. E112	Connector Name CENTER SENSOR FRONT LH	Connector Type RH03FB	H.S.	Terminal Color Of Signal Name Specification No. Wire P	
COUND VIEW MONITOR SYSTEM (VR ENGINE)				П	S. (8 (8 (8 (8 (8 (8 (8 (8 (8 (8 (8 (8 (8	10 o o o o o o o o o o o o o o o o o o o	
COUND VIEW MONITOR SYSTEM				П	1.2 3 4 5 5 7 8 9 10 17 18 18 20 21 22 20 24 65 65	Color Of Wire Wir	
	D VIEW MONITOR SYSTEM			П	S S S S S S S S S S	Color Of Signal Name Specification Wire B	

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Connector No. E114	Connector No. E116	16		- [With 2.0L turbo gasoline engine]	Termina	Terminal Color Of	Signal Name [Specification]	
Connector Name CORNER SENSOR FRONT LH	Connector Name FR0	FRONT CAMERA	37 GR		Š -	Wire		_
Connector Type RH03FB	Connector Type RH	RHOGMB	╁		7 7	E E		Т
1]		H	,	3	BG		
	E				4	Я	٠	П
K	¥.		ſ		2	ŋ	· ·	1
			Connector No. F2		7	_		_
		(1 2 3 4 6)	Connector Name A/T A	A/T ASSEMBLY	∞	≥	4	_
)			T		6	≽		1
			Connector Type RK10	RK10FG-DGY	10	BG		_
			ą		11	×		\neg
Color Of Signal Name (Specification)	la l	Signal Name (Specification)	B	<	12	97		_
	No. Wire		ů.		13	٦		_
GR -	1 R		9	5 4 3 2 1	14	٨		
	2 B			·	15	ΓC		-
	3			10000	16	>		
	4 SHIELD				17	٦		
Connector No. E115	M 9				18	Ь		П
Ha Tingga agging agging of a construction and a con			Terminal Color Of	Cinnal Name (Consideration)	19	GR	-	
			No. Wire	olgnal ivame [opecification]	20	BG		Г
Connector Type RH03FB	Connector No. E121	21	1 GR IGNIT	IGNITION POWER SUPPLY [With 2.0L turbo gasoline engine]	21	GR		
		IPOM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE	1 L IGNI	IGNITION POWER SUPPLY [With VR30 engine]	22	Μ		Г
	Connector Name ROO	(MC	2 P BAT	BATTERY POWER SUPPLY (MEMORY BACK-UP)	23	G		Г
E	Connector Type TH:	TH32FW-NH	3	CAN-H	24	SB		
/			4 R	K-LINE	25	>	,	
((2 1))	13		5 B GR	GROUND [With 2.0L turbo gasoline engine]	56	Μ	,	Г
			5 BR	GROUND [With VR30 engine]	27	>		Г
	2	1 100 00 101 101 101 101 101	6 GR	IGNITION POWER SUPPLY	28	Α		Г
	35	36 37 38 41	7 86	BACK-UP LAMP RELAY	59	>		Г
Color Of Signal Manual Specification			В	CAN-L	30	~		
Wire Signal Name (Specification)			> 6	STARTER RELAY	31	۵		Г
			10 B	GROUND	32	ď		Г
. ·	Terminal Color Of	(- 3 - 3 W			33	۵	,	Г
	No. Wire	orginal warne (openingation)			34	98		
	19 1	- [With 2.0L turbo gasoline engine]	Connector No. F12		32	97	,	Г
	19 P	- [With VR30 engine]	TOTAL STREET	Jan OI Jan	36	SB		
	22 BG			O WHITE	37	^	-	
	23 GR	- [With VR30 engine]	Connector Type SAA3	SAA36FB-RS8-SHZ8	38	BR		
	97	- [With 2.0L turbo gasoline engine and without Anti theft diode]			39	æ	,	_
	23 P - h	- [With 2.0L turbo gasoline engine and with Anti theft diode]	Œ		40	SHIELD		Г
	85			12 11 10 9 2 1	41			Т
	H		i.S.	16 15 14 13 3	42	œ	r	Т
	- 50			255242322120191913	43	>		Т
	31 2			3434333313024242124 6 5	45	. >	1	т
	Ŧ			4342414(39383)383	94		,	т
	+			- 11	2 2	-		Т
	+				48			Т
	. y				64	2		Т
	50	Company deliver			f S	2		Т
	┨	- [with vk30 engine]			Š	SHIELD		٦

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[AROUND VIEW MONITOR SYSTEM]

	6119	WIRE TO WIRE	THOOMAN COLD TAMA	HOUMWY-COLO-TIVIS							Signal Name [Specification]			,							1					•					- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]		•										
		Connector Name	T	1								wire ×	- თ	æ	BR	>	ď	>	>	88	BR	51	GR	œ	_	>	> 6	¥ :	s %	~	œ	>	۵	Μ	9	œ	ж	BR	В	8	^	Ь	W	SB	57	Ь
Connector No		Connecto	Connector Type		Œ		S				Terminal	Vo	7 7	_	4	2	9	7	∞	10	11	12	13	14	15	16	18	FI S	20 20	23	24	24	25	25	26	27	28	31	32	33	34	35	36	37	38	40
INNOTE INTERNET	SELECT SWITCH SIGNAL	POSH SWITCH B SIGNAL	WELD SHIELD	L/K_DETECTION SIGNAL		M14	BCM (BODY CONTROL MODULE)	TH40FB-NH				88 88 88 88 88 88 88 88 88 88 88 88 88	72 1 1/2 1/1/10/08 Bollov 00 00 00 00			Const Name [Constinui	oigna marrie [opermeation]	PUSH-BTN IGN SW ILL PWR	DONGLE LINK	COMM LINE	RAIN SENSOR	CAN-L	CAN-H	REAR WINDOW DEF RLY CONT	STARTER RLY CONT	LKEY WARN BUZZER	OUTS HD LAMP CONT	BLOWER FAIN RLY CON [WITH VK30 engine]	BLOWER FAIN REY CON [With 2:0L turbo gasoline engine]	DIMMER	A/T SHIFT SELECT PWR SPLY	IGN RLYAY (IPDM E/R) CONT	DR DOOR REQ SW	PASS DOOR REQ SW	COMBI SW INPUT 5	COMBI SW INPUT 4	COMBI SW INPUT 3	COMBI SW INPUT 2	COMBI SW INPUT 1	TR LID OPNR SW						
ļ	9 0		a -	,		Г	Je .	Т	1				_			Color Of	Wire	ď	ŋ	>	ď	۵	_	G	œ	>	80 6	a :	γ /w	~	g.	В	9	SB	BR	BG	^	Υ	FIG.	1						
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AROUND VIEW MONITOR SYSTEM (VR ENGINE	M 0			100	1	lame TCM	ype SP10FG	<	«	1 2 3 4 5	6 7 8 9 10			Color Of	Wire Signal Name [Specification]	- IGNITION POWER SUPPLY	BATTERY POWER SUPPLY (MEMORY BACK-UP)	- CAN-H	- K-LINE	- GROUND	- IGNITION POWER SUPPLY	- BACK-UP LAMP RELAY	- CAN-L	- STARTER RELAY	- GROUND			ı	Iame INTEGRAL SWITCH	vpe TH24FW-NH	1			234 78	18 19	1			Color Of Signal Name (Specification)	Wire Signal Name (Specification)	ורדו		SB AV COMM (H)	W/B DISK EJECT SIGNAL	G HAZERD SIGNAL	B GND
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			,	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	,		- [With VR30 engine]	- [With 2.0L turbo gasoline engine]			- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		- [With VR30 engine and without BOSE system]	- [With 2:0L turbo gasoline engine]	- [With VR30 engine and with BOSE system]			,			- [With 2.0L turbo gasoline engine]	- [With VR30 engine]			- [Except with VR30 engine and with BOSE system]	 [With VR30 engine and with BOSE system] 				- [With 2.0L turbo gasoline engine]	- [With VR30 engine]			,			•
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		4					M22	POLYMOT BOWN	Wike IO Wike	TH80MW-CS16-TM4		0 0	\$ 200 000 000 000 000 000 000 000 000 00	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					Cinnal Namo [Coordination]	olgilal Name (opermeation)		- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	 [With 2.0L turbo gasoline engine] 	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]						 [With 2.0L turbo gasoline engine] 	- [With VR30 engine]	- [With DCM]	- [Without DCM]	•			
	SHIELD	8	>	\				Manage	Nalle	-Type									Color Of	Wire	97	٦	SHIELD	BR	æ	SHIELD	>	9	۸	BG	BR	PΠ	Ь	ŋ	Р	ΓG	SHIELD	>	æ	>	ΓG	LG	BR	Ь	SB	۸	γ	٦	9	S.
	16	17	18	21			Connector No.	Connector Name	namon	Connector Type	(E	Ę	2					Terminal	No.	1	2	2	3	3	4	4	5	5	9	9	7	7	8	8	6	6	10	=	12	13	14	15	15	16	16	17	18	19	20
VE)	Connector No. M20		Connector Name WIRE TO WIRE	Connector Type TH16MW-NH				110011501	4 4 4	9 10 11 17 13 14 10 10			inal Color Of Signal Name (Specification)	Wire	, , , , , , , , , , , , , , , , , , ,	1 SHIELD .	-		t R .			Connector No. M21		Connector Name WIRE IO WIRE	Connector Type TH24MW-NH				1123456789101112	15 16 17 18 19 20				O	Wire		+	1	Ś					. 9	SHIELD -		2 SB .			- ac
ENGIN	Conne	·	Conne	Conne	¢	ß	Ŧ	Ī					Terminal	No.	10	11	12	13	14			Conne	١,	eu con	Conne		Ø	Ţ	Ī					Terminal	No.	1	2	e	4	2	9	7	80	6	10	11	12	13	14	15
AROUND VIEW MONITOR SYSTEM (VR ENGINE)	41 6 .	BR	BR		BG	50 W -	51 Y .	52 v .	23 16 -	54 R -	55 R -	57 W -	58 v -	S9 BG .	Н	\dashv		63 BR -	64 Y -	99	. 51 07	71 W -	H	73 W	74 L -	75 W	76 BR -		78 SB -	Ь		81 B .	R	83 BG -	L	W	4		v - [With		GR	94 GR -	- M 96	П	Н	٨				
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[AROUND VIEW MONITOR SYSTEM]

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59	SB		96	~	- [With 2.0L turbo gasoline engine] Connector No. M25		11	SHIELD	
61	ı		96	W	- [With VR30 engine]		12	Ь	-
62	Ь	- [With 2.0L turbo gasoline engine]	6	1	Colliector Name		13	SB	
62	^	- [With VR30 engine]	6	œ	- [With 2.0L turbo gasoline engine] Connector Type BD16FW		14	91	
63	_		86	BR	_		15	Υ	
64	Α	•	66	BR	- [With VR30 engine and with BOSE system]		16	۰	
99	œ		66	۵.		ŀ	17	۵	
89	_		66	>	- [With VR30 engine and without BOSE system]	13 14 16	18	W/B	
69	а		100	BR		5 6 7 8	19	91	- [With DRPO]
71	æ	- [With 2.0L turbo gasoline engine]	100	3	11	1	19	>	- [Without DRPO]
71	œ	- [With VR30 engine]					20	>	
72	9	- [With VR30 engine]					21	8	
72	>	- [With 2.0L turbo gasoline engine]	Connector No.	or No.	M24 Terminal Color Of	1000	22	BG	- [Without DRPO]
73	97	- [With 2.0L turbo gasoline engine]			No. Wire Signal Name [5]	pecification	22	ŋ	- [With DRPO]
73	SHIELD	- [With VR30 engine]	Connector Name	or Nam	CAN GALEWAY 3 LG M_CAN	7,1	23	_	
74	_	- [With VR30 engine]	Connector Type	r Type	TH12FW-NH 6 B EARTH		24	>	
74	97	- [With 2.0L turbo gasoline engine]		_	5 B EARTH		25	88	- [Without DRPO]
75	۵		1		6 L CAN-H	Ŧ	25	_	- [With DRPO]
9/	SB	- [With 2.0L turbo gasoline engine]			7 v KLINE [With 2.0L turbo gasoline engine]	o gasoline engine]	56	>	
92	>	- [With VR30 engine]	N. I.S.		» ·	330 enginel	77	g.	
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80	¥5	- [With Z.OL turbo gasoline engine]			,	-	31	2	,
٥	>	- [With VR30 engine]	Terminal	<u> </u>	Signal Name (Specification) 14 P CAN-L	-	32	SB	
81	В	- [With VR30 engine]	No.	Wire	16 W POWER	ER	33	_	-
81	æ	- [With 2.0L turbo gasoline engine]	1	٦	CAN-H (CAN COMMUNICATION CIRCUIT 1)		34	BR	-
82	9	- [With 2.0L turbo gasoline engine]	e a	۸	BATTERY POWER SUPPLY		32	97	
2	SHIELD	- [With VR30 engine]	4	7	CAN-H (CAN COMMUNICATION CIRCUIT 2) Connector No. M33		36	Μ	•
	œ	- [With 2.0L turbo gasoline engine]	Ŋ	80			37	8	
83	3	- [With VR30 engine]	9		CAN-H (CAN COMMUNICATION CIRCUIT 2)		40	۵	,
4	BR	- [With VR30 engine]	7	٩	CAN-L (CAN COMMUNICATION CIRCUIT 1) Connector Type NH60MW-TS12		41	SB	
t	SHIELD	- [With 2.0L turbo gasoline engine]	6	۳	188		43	≥	- Except with VR30 engine and without ISS
T	88	- [With VR30 engine]	6	3	IGNITION POWER SUPPLY (Except with VR30 engine and without ISS)		43	>	- [With VR30 engine and without ISS]
58	c	- (With 2.0) turbo gasoline engine	10	~			44	BG	
y	α	[edipos edipos odnit 10 C Hith.]	1,1	ď	61 62 63 64 65 66	22 23 23 4 14 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A6	ä	,
98	: >	- [Mith West contine]	12		TION CIPCLIT 3)	នាងនៅខានៅខានានា	2 2	5 0	
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7	SHELD	- [With 2.0L turbo gasoline engine]					os Os	2	
89	BR	- [With VR30 engine]					25	æ	
6	9	 [With 2.0L turbo gasoline engine] 			D Pe	necification	23	œ	
0	SB	- [With 2.0L turbo gasoline engine]			No. Wire	promoteriori	55	BG	
06	>	- [With VR30 engine]			2 W		26	97	•
92	_	- [With 2.0L turbo gasoline engine]			4 6		57	>	
92	^	- [With VR30 engine]			9 5		28	~	
G	۵	- [Mith VB20 engine]			ł		05		
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33	SHIELD	- [With Z.0L turbo gasoline engine]			+		09	_	
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92	_	 (With 2.0L turbo gasoline engine) 			20 6		62	~	
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M34 WRE TO WIRE NHOWN TSIZ NHOWN TSIZ TO G U C C C C C C C C C C C C C C C C C C	29 29 30 44 55 55 55 56 66 66 66 67 77	86 W//B L L S B B B B B G G G G G G G R R R R R R R R R R R R R	- [Without DRPO]	13	9		14	8	
M34 WRE TO WIRE INFOMW-TS12 FIGURE IS IN INFOMMENTED	29 30 30 49 49 52 55 55 56 66 66 66 66 67 70 70 70	86 W//B W//B U P P P S B G G G G G G G G G G G G G	- [Without DRPO]	15					
M34 WRE TO WIRE NHEANWITSIZ TO COLOUR TO THE THE TO THE T	29 49 49 55 55 56 57 58 58 58 59 60 60 60 60 60 60 70 70 70	W/B V V V V V V V V V V V V V V V V V V V			œ		15	8	- [With 2.0L turbo gasoline engine]
M34 WRE TO WIRE INHOMW 1512 THE TO BE TO	30 49 52 55 55 56 57 58 60 60 64 64 64 64 67 70		- [With DRPO]	16	88		15	SB	- [With VR30 engine]
M34 WIRE TO WIRE INFERONW-1512 FILE OF UP OF THE TOTAL OF	49 52 55 55 56 56 60 60 60 63 63 63 63 64 64 64 64 64 67 77	- > B B S O O D D R B R C E		17	SHIELD		16	8	- [With VR30 engine]
WINE TO WIRE WINE TO WIRE WINE TO WIRE WINE TO WIRE WINE THE WINE	55 56 57 57 58 60 60 64 64 65 65 66 67 70 71	> B B S C C C C C C C C C C C C C C C C C		18	Μ		16	BR	- [With 2.0L turbo gasoline engine]
M34 WIRE TO WIRE INHEONW-TS12 TO BE	55 56 57 58 58 59 60 63 64 65 66 66 66 67 70 70	88 89 89 89 89 89 89 89 89 89 89 89 89 8		19	>		17	91	
M34 WIRE TO WIRE NHEANWITSIZ TO COLOUR TO THE TO THE TO THE	56 57 58 58 60 60 63 64 65 65 66 66 70 71	SB G G G SB R R R R R R R R R R R R R R R R R R		20	٦		18	8	- [With VR30 engine]
WIRE TO WIRE NHGOMWATSIZ THE OF THE OFFICE	57 58 59 60 64 64 65 65 66 67 70 71	0 0 0 2 8 8 8		21	9		18	W/B	- [With 2.0L turbo gasoline engine]
NHE TO WIRE NHEGONW-TS12	58 59 60 63 64 65 65 66 69 70 71	0 9 8 8 8 8		22	ĸ		19	۰	
MHEONWAYSIZ	59 60 63 64 65 65 66 70 71	S 8 8 8		23	BR		31	8	
MHGOMWUTS12	60 63 64 65 65 66 66 69 70 71 71	cc cc cc 5		24	ď		32	g	- [With 2.0L turbo gasoline engine]
	63 64 65 66 69 70 71 72	80 ex 8		25	7		32	>	- [With VR30 engine]
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	65 66 69 70 71 72	5		27	97		33	>	- [With 2.0L turbo gasoline engine]
TO THE REPORT OF THE PROPERTY	66 69 70 71 72	8K		28	BR		34	۵	,
2 Dés printripoposos en es es monerantes de la constantación en es	69 70 71 72	>		59	W/B		35	BG	
	70 71 72	BR		30	>		36	ŋ	
	71	>		31	*		37	80	- [With VR30 engine]
	72	SB		32	1	- [With Anti-theft diode]	37	_	- [With 2.0L turbo gasoline engine]
		Μ		32	91	- [Without Anti-theft diode]	38	_	- [With VR30 engine]
Color Of Size of Manual Contribution							38	Ь	- [With 2.0L turbo gasoline engine and without gateway]
olgilar ivanie (opecification)							38	œ	- [With 2.0L turbo gasoline engine and with gateway]
	Connector		139	Connecto	. No.	M40	39	В	- [With 2.0L turbo gasoline engine]
	Connector		JOHN OF JOHN	Connecto	- Mamo	MINE TO WINE	39	Υ	- [With VR30 engine]
- [With DRPO]	COLLIECTO		VINE 10 WINE	Colliecto	Malle	WIRE IO WIRE	40	GR	,
- [Without DRPO]	Connector	Г	H32FW-NH	Connecto	.Type	TH80MW-CS16-TM4	41	_	
		1					44	æ	
	Œ			Œ			45	_	- [With 2.0L turbo gasoline engine]
						9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45	≥	- [With VR30 engine]
	Ä.S.	<u>L</u>	7	S.			46	9	- [With VR30 engine]
		15	21 20 30 30 30 30 30 30 30 30 30 30 30 30 30				46	>	- [With 2.0L turbo gasoline engine]
		2	01 00 50 50 50 50 50 50 50 50 50 50 10				47	8	- [With 2.0L turbo gasoline engine]
							47	~	- [With VR30 engine]
							48	SHIELD	
	Terminal	Color Of	3 3 3 3	Terminal	Color Of	3 3 3	49	8	- [With VR30 engine]
	No.	Wire	Signal Name [Specification]	No.	Wire	olgnal Name [opecification]	49	g	- [With 2.0L turbo gasoline engine]
	1	W/B		1	BG		20	В	- [With 2.0L turbo gasoline engine]
	2	ES.		9	W/B		20	æ	- [With VR30 engine]
	3	_		7	>		51	_	
- [With DRPO]	4	۵	- [Without Gateway]	∞	BG	- [With VR30 engine]	25	≥	
- [Without DRPO]	4	æ	- [With Gateway]	80	BR	- [With 2.0L turbo gasoline engine]	23	g	
SHIELD	2	BR		6	91	- [With VR30 engine]	54	SB	- [With 2.0L turbo gasoline engine]
	9	SB		6	а	- [With 2.0L turbo gasoline engine]	54	>-	- [With VR30 engine]
- [Without DRPO]	7	_		10	*		55	В	- [With 2.0L turbo gasoline engine]
- [With DRPO]	œ	Μ		11	Μ	- [With VR30 engine]	55	۵	- [With VR30 engine]
	6	۵	- [Without BOSE system]	11	>	- [With 2.0L turbo gasoline engine]	26	BG	- [With VR30 engine]
	6	>	- [With BOSE system]	12	В	- [With VR30 engine]	99	gR	- [With 2.0L turbo gasoline engine]
- [Without DRPO]	10	>		12	BB	- [With 2:0L turbo gasoline engine]	57	S.	- [With VR30 engine]
	Signal Name (Spredification) - [With DRPO] Specification	Specification Connector No. Connector No. Connector Name Connector Name Connector Name Connector Name Connector Type Connect	Specification Connector No. M39 Connector No. M39 Connector No. M39 Connector No. M39 Connector Name WIRE TO WIF Connector Name Connector Name	Specification Connector No. M39 Connector No. Connecto	Specification Connector No. M39 Connector Name M820 Connector Name M820 Connector Name Con	Specification Connector No. M39 Connector No. M40	Specification To St To S	Specification Connector Name Winter Towns Name Connector Name Winter Towns Name Connector Name Winter Towns Name Connector Name Winter Towns Winter Winter Towns Winter Win	

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[AROUND VIEW MONITOR SYSTEM]

Clother of were affired depending on production	CAN-H Connector No. M97	CAN-L [Without Gateway] Connector Name BACK-UP LAMP RELAY	Т			IGN [For 2.0L turbo gasoline engine]	FRONT SENSOR GND REAR SENSOR GND	TEAN SHAPE AND	FRONT BUZZER DRIVE SIGNAL	BUZZER POWER SUPPLY	Terminal	n)	2 SB - [With 2.0L turbo easoline engine]	2 W		THOREW: NH		Connector No. M100	Connector Name DISPLAY CONTROL UNIT	Connector Type TH24FW-NH			(A)	30 31 33		CAN-L [Without Gateway]	CAN-L [With bateway] IGN IGN	No.	16 LG AV COMM (L)	Ь	~ ;	BR REVE	26 BR CAMERA SWITCH SIGNAL	SB	29 L CAN-H	æ :	30 W IGN [For 2.0L turbo gasoline engine] 31 R VEHICLE SPED SIGNAL (8.0) IIISE)	SB ACC	33 V ACC For VR30 engine and with ISS
Connector No.	2	H	+	+	Н	+	+	+	+	\vdash	H	┥					1	Œ	H.S.				_		1 B	+	+	+											
NOUND VIEW MONITOR SYSTEM (VR VR VR VR VR VR VR VR	BR	91	-		П		Т	1			1 2 3	6			Color Of	Wire			8 W	: >	W	9	m @	_			Т		П	Q	唐		12 10 9 6 5 4 3	0			Wire	88	2 LG CENTER SENSOR SIGNAL FRONT LH
OUND V	IEW MONITOR SYSTEM (VR - (With 2.0L turbo gasoline engine)					- [Color of wire differs depending on production]	- [Color of wire differs depending on production]				- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [with 2.0c turbo gasoline engine] - [With VR30 engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine] - [With 2 OI turbo pasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine and without gateway]	- [With 2.0L turbo gasoline engine and with gateway]		- [With VR30 engine]	- [With 2.0L turbo gasoline engine]				- [With 2.0L turbo gasoline engine]	- [with vks0 engine]				- [With VR30 engine]	- [With 2.0L turbo gasoline engine]			- [With VR30 engine]	- [With 2.0L turbo gasoline engine]		- [With 2.0L turbo gasoline engine and with gateway]	
		a 5	SB W/R	>	œ	۵	> 2		2 -	æ	>	≱ .	91	œ	*	- BR	9	۵	R/W	SB	9	91	w 0	œ	97	BB c	× >	>	ŋ	>	<u>.</u>	> 3	≱ თ	BR	GR	-	ž a	œ	>

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AROI	JND	AROUND VIEW MONITOR SYSTEM (VR ENGINE)	ENGINE)					
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No.	Wire		Wire	No. Wire		33C	C B	- [With VR30 engine]
36	97	COMPOSIT	w	11B LG		330	Н	- [With 2.0L turbo gasoline engine]
38	SHIELD	SHIELD	В	13B P		34C	C W/B	
40	SHIELD	D MANUFACTURER SPECIFIC SIGNAL	94 SHIELD SHIELD	14B G		35C	C SB	
42	g	SOUND SIGNAL RH (-)		15B Y		36C	C C	
43	SHIELD			16B Y		37C	C	
44	٦	SOUND SIGNAL LH (-)	Connector No. M110	28 B		38C	C SB	
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46	SHIELD			58 R		ĕ	۵	
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64	>	SOUND SIGNAL LH (+)		- 1		唐	_	E E A 3 2 4
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69	SHIELD	D SHIELD		13C L				
20	9	MICROPHONE SIGNAL		14C Y				
71	9	MICROPHONE SIGNAL [Without telematics system]		15C R		Term	Terminal Color Of	JC
71	œ	MICROPHONE SIGNAL [With telematics system]		16C R		No.	. Wire	
72	7	MICROPHONE VCC		17C L		1	В	
74	ď	CAMERA POWER SUPPLY		18C BG	•	2	8	
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[AROUND VIEW MONITOR SYSTEM]

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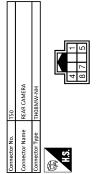
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AROUND VIEW MONITOR SYSTEM (VR ENGINE				•	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]									M137		JOINT CONNECTOR-M10	24342_4GA2A			ю	11 10 9 8 7	15	22 21 20 19			Signal Name (Specification)	[incompany]												
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Signal Name [Specification] Connector Type H.S. JOINT CONNECTOR-M07 20 19 17 16 15 14 13 12 11 10 Signal Name [Specification] JOINT CONNECTOR-M05 Connector Name Connector Type AROUND VIEW MONITOR SYSTEM (VR ENGINE) Signal Name [Specification] JOINT CONNECTOR-M04

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< WIRING DIAGRAM > [AROUND VIEW MONITOR SYSTEM]



Signal Name [Specification]			4	-	•	
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Terminal Color Of No. Wire	1	4	2	7	∞	

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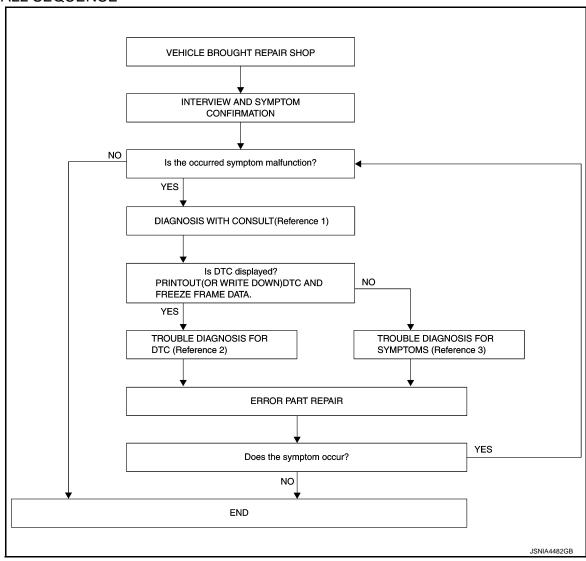
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow (INFOID:000000012795736

OVERALL SEQUENCE



- Reference 1... Refer to <u>AV-461</u>, "CONSULT Function".
- Reference 2··· Refer to <u>AV-485, "DTC Index"</u>.
- Reference 3··· Refer to AV-616, "Symptom Table".

DETAILED FLOW

1.INTERVIEW AND SYMPTOM CONFIRMATION

Check the malfunction symptoms by performing the following items.

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

Is the occurred symptom malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

2.DIAGNOSIS WITH CONSULT

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >	[AROUND VIEW MONITOR SYSTEM]
Connect CONSULT and perform a self-diagnosis for "M	ULTI AV". Refer to AV-461, "CONSULT Function".
NOTE: Skip to step 4 of the diagnosis procedure if "MULTI AV"	is not displayed.
2. When DTC is detected, follow the instructions below:	
- Record DTC and Freeze Frame Data.	
<u>Is DTC displayed?</u> YES >> GO TO 3.	
NO >> GO TO 4.	
3. TROUBLE DIAGNOSIS FOR DTC	
 Check the DTC indicated in the "Self-Diagnosis Results" Perform the relevant diagnosis referring to the DTC Index 	
>> GO TO 5.	
4. TROUBLE DIAGNOSIS FOR SYMPTOMS	
Perform the relevant diagnosis referring to the diagnosis <u>Table</u> ".	chart by symptom. Refer to AV-616, "Symptom
>> GO TO 5.	
5. ERROR PART REPAIR	
 Repair or replace the identified malfunctioning parts. Perform a self-diagnosis for "MULTI AV" with CONSULT 	
NOTE:	
Erase the stored self-diagnosis results after repairing of has been indicated in the "Self-Diagnosis Results".	or replacing the relevant components if any DTC
3. Check that the symptom does not occur.	
Does the symptom occur?	
YES >> GO TO 1. NO >> INSPECTION END	
	_

ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT

< BASIC INSPECTION >

[AROUND VIEW MONITOR SYSTEM]

ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT

Description INFOID:0000000012795737

Perform the following operations when replacing around view monitor control unit.

- 1. Configuration, refer to AV-536, "Work Procedure".
- 2. Calibrating camera image, refer to AV-539, "Work Procedure".

ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT

[AROUND VIEW MONITOR SYSTEM]

< BASIC INSPECTION > ADDITIONAL SERVICE WHEN REPLACING SONAR CONTROL UNIT Α Description INFOID:0000000012795738 Perform the following operations when replacing sonar control unit. В Configuration, refer to AV-537, "Work Procedure". C D Е F Н J K L M

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AV-535 Revision: November 2016 2016 Q50

CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT)

< BASIC INSPECTION >

[AROUND VIEW MONITOR SYSTEM]

CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT)

Work Procedure

1. SAVING VEHICLE SPECIFICATION

©CONSULT Configuration

Perform "Before Replace ECU", and save the current vehicle specification in CONSULT.

Is the vehicle specification saved normally?

YES >> GO TO 2.

NO >> GO TO 4.

2. REPLACE AROUND VIEW MONITOR CONTROL UNIT

Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

©CONSULT Configuration

Select "Configuration" or "After Replace ECU", and write the vehicle specification saved in CONSULT to around view monitor control unit.

>> GO TO 6.

4. REPLACE AROUND VIEW MONITOR CONTROL UNIT

Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

>> GO TO 5.

5. WRITE VEHICLE SPECIFICATION

(P)CONSULT Configuration

Select "Manual Configuration", and write the vehicle specification to around view monitor control unit.

NOTE

Around view monitor control unit does not have any setting items. Selection of items on "Manual Configuration" screen is not required.

>> GO TO 6.

6. PERFORM SELF-DIAGNOSIS

©CONSULT Self Diagnostic Result

Perform self-diagnosis of CONSULT, and check whether or not DTC U1305 is detected.

Is DTC U1305 detected?

>> GO TO 5.

>> GO TO 7.

7. OPERATION CHECK

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

>> WORK END

CONFIGURATION (SONAR CONTROL UNIT)

< BASIC INSPECTION >

[AROUND VIEW MONITOR SYSTEM]

CONFIGURATION (SONAR CONTROL UNIT) Α Work Procedure INFOID:0000000012795740 1. SAVING VEHICLE SPECIFICATION В (E)CONSULT Configuration Perform "Before Replace ECU", and save the current vehicle specification in CONSULT. Is the vehicle specification saved normally? YES >> GO TO 2. NO >> GO TO 4. D 2.REPLACE SONAR CONTROL UNIT Replace sonar control unit. Refer to AV-623, "Removal and Installation". Е >> GO TO 3. 3.writing vehicle specification (P)-CONSULT Configuration Select "Configuration" or "After Replace ECU", and write the vehicle specification saved in CONSULT to sonar control unit. >> GO TO 6. **4.**REPLACE SONAR CONTROL UNIT Н Replace sonar control unit. Refer to AV-623, "Removal and Installation". >> GO TO 5. 5.WRITE VEHICLE SPECIFICATION (P)CONSULT Configuration Select "Manual Configuration", and write the vehicle specification to sonar control unit. Sonar monitor control unit does not have any setting items. Selection of items on "Manual Configuration" screen is not required. >> GO TO 6. $\mathsf{6}.$ PERFORM SELF-DIAGNOSIS CONSULT Self Diagnostic Result M Perform self-diagnosis of CONSULT, and check whether or not DTC B2724 is detected. Is DTC B2724 detected? >> GO TO 5. >> GO TO 7. 7. OPERATION CHECK Check that the operation of the sonar control unit is normal. >> WORK END Р

PREDICTIVE COURSE LINE CENTER POSITION ADJUSTMENT

< BASIC INSPECTION >

[AROUND VIEW MONITOR SYSTEM]

PREDICTIVE COURSE LINE CENTER POSITION ADJUSTMENT

Description INFOID:000000012795741

Adjust the center position of the predictive course line of the front view and rear view monitor.

Work Procedure

1.DRIVING

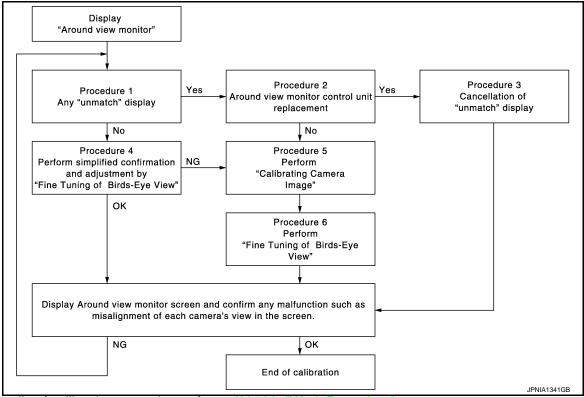
Drive the vehicle straight ahead 100 m (328.1 ft) or more at a speed of 30 km/h (18.6 MPH) or more.

>> END

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)

Description INFOID:000000012795743

- Perform camera calibration and perform writing to the around view monitor control unit, after removal/installation or replacement of each camera or camera mounting parts (front grille, door mirror, or others), or replacement of around view monitor control unit.
- By performing this camera calibration procedure, the boundary of each camera image is aligned to the white lines on the road near the vehicle. The boundary of each camera image may not be aligned to the white lines far from the vehicle. The farther the line, the greater the difference is.
- Following the flowchart shown in the figure, perform calibration.



For details of calibration operation, refer to AV-539, "Work Procedure".

Work Procedure

CAUTION:

When around view monitor control unit is replaced, perform the control unit setting before performing this calibration. Refer to AV-539, "Description".

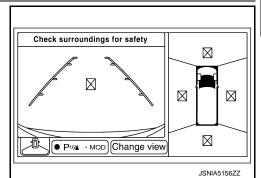
1. CHECK AROUND VIEW MONITOR SCREEN

Check whether or not un-match display "

"is on screen.

Is un-match display on screen?

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



2.CHECK WHETHER OR NOT AROUND VIEW MONITOR CONTROL UNIT IS REPLACED

Check whether or not around view monitor control unit is replaced.

<u>Is around view monitor control unit replaced?</u>

Revision: November 2016

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CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) [AROUND VIEW MONITOR SYSTEM]

< BASIC INSPECTION >

YES >> GO TO 3. NO >> GO TO 5.

3. Release un-match display (perform only when around view monitor control unit is replaced)

(P)CONSULT work support

Select "CALIBRATING CAMERA IMAGE".

NOTE:

In random order, perform the operation for all cameras for which un-match display appears.

- Front camera: "CALIBRATING CAMERA IMAGE (FRONT CAMERA)"
- Passenger side camera: "CALIBRATING CAMERA IMAGE (PASS-SIDE CAMERA)"
- Driver side camera: "CALIBRATING CAMERA IMAGE (DR-SIDE CAMERA)"
- Rear camera: "CALIBRATING CAMERA IMAGE (REAR CAMERA)"
- 2. On each camera calibration screen, press "APPLY" button, and then press "OK" button.

CAUTION:

- Never perform any operation other than selecting "APPLY" button.
- Never perform "INITIALIZE CAMERA IMAGE CALIBRATION".
- Display the around view monitor screen. Check that images are displayed normally without any difference between images for each camera.

Is there a malfunction such as a difference between camera images?

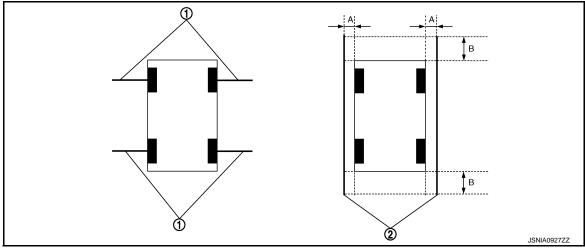
YES >> Calibration end

NO >> GO TO 1.

4.PERFORM SIMPLIFIED CONFIRMATION/ADJUSTMENT BY "FINE TUNING OF BIRDS-EYE VIEW"

- 1. Put target line 1 beside each axle using packing tape, etc.
- 2. Put target line 2 at a position approximately 30 cm (11.81 in) away from each side of the vehicle (the left and right). Check that the target line is a length equivalent to the vehicle length, plus an additional approximate length of 1.0 m (39.37 in) (in parallel with the vehicle as much as possible).

Preparation of simplified target line



Target lines 1

- (2) Target lines 2
- A. Approx. 30 cm (11.81 in)
- B. Approx. 1.0 m (39.37 in)
- 3. CONSULT work support

Select "FINE TUNING OF BIRDS-EYE VIEW".

- 4. Select the left and right cameras on CONSULT screen. Perform the following calibration.
- Check that target line 1 and marker are aligned normally on screen. If difference is detected, align marker using "+" and "-" of "AXIS X" and "AXIS Y" on CONSULT screen.
- Check that target line 2 is aligned normally on screen without difference between images of each camera. If difference is detected, align images so that line 2 is displayed in a straight line using "+" and "-"of "AXIS X", "AXIS Y", and "ROTATE" on CONSULT screen.

NOTE:

Press "SELECT" button on CONSULT screen and select camera position for adjustment. **CAUTION:**

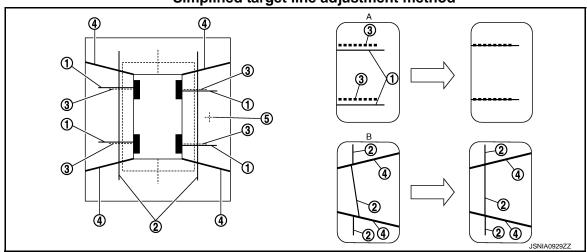
CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)

< BASIC INSPECTION >

[AROUND VIEW MONITOR SYSTEM]

- Never adjust the front camera and rear camera. Only adjust the side cameras LH/RH.
- Perform adjustment operation slowly because approximately 1 second is required for changing image on screen.

Simplified target line adjustment method



- Target lines 1
- A Boundary between cameras
- A. Adjustment method for target lines 1 (right)
- 2 Target lines 2
- ⑤ Crosshair cursor (mark indicated the selected camera)
- Adjustment method for target lines 2 (right)
 - ies 2

Marker for target line 1

- 5. Adjust the left and right cameras. Check that difference of images on screen between target line 1 and marker, and between target lines 2 are solved. Press "APPLY".
 - NOTE:
 - The setting can be initialized to factory default condition using "CALIBRATING CAMERA IMAGE" of work support.
 - The adjustment value on this mode is cancelled when "INITIALIZE CAMERA IMAGE CALIBRATION" is performed.

Is the difference corrected?

YES >> • Select "OK" to end calibration.

CAUTION:

After selecting "OK", never perform any operation other than "BACK" on CONSULT.

NO >> GO TO 5.

5. PERFORM "CALIBRATING CAMERA IMAGE"

Preparation of target line

- 1. Hang a string with a weight as shown in the figure. Put the points FM0, RM0 (mark) on the ground at the center of the vehicle front end and rear end using white packing tape or a pen.
- 2. Route the vinyl string under the vehicle, and then pull and fix the vinyl string at a point approximately 1.0 m (39.37 in) at the front and rear of the vehicle through points FM0 and RM0 using packing tape.

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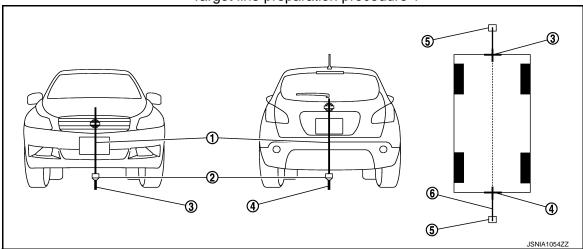
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Target line preparation procedure 1



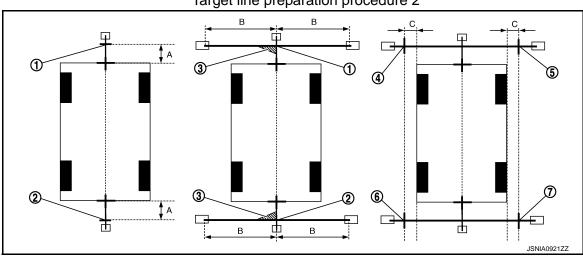
Thread

Weight

Point FM0 (mark)

- Point RM0 (mark)
- Packing tape (to fix the vinyl string)
- Vinyl string
- Put points FM and RM (mark) 75 cm (29.53 in) from the points FM0 and RM0individually.
- Route the vinyl string through points FM and RM using a triangle scale, and then fix it at approximately 1.5 m (59.06 in) on both sides with packing tape.
- Put points FL, FR, RL, and RR (mark) at distance of a half the vehicle width, plus 30 cm (11.81 in) to the left and right from points FM and RM.

Target line preparation procedure 2



Point FM

Point RM

Triangle scale

Point FL (mark)

Point FR (mark)

Point RL (mark)

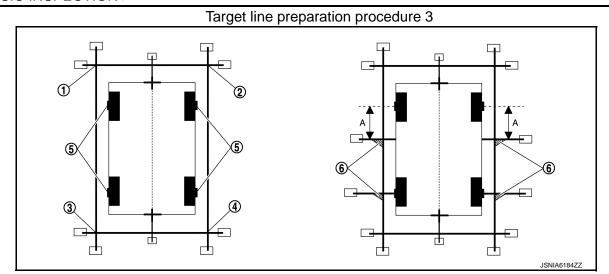
- Point RR (mark)
- 75 cm (29.53 in)

- Approximately 1.5 m (59.06 in)
- 30 cm (11.81 in) [A half of the vehicle width plus 30 cm (11.81 in) from the points FM and RM1
- 6. Draw the lines of the points FL RL and FR RR with the vinyl string, and fix it with packing tape.
- Put a mark at the center of front axle. Use a triangle ruler to draw a line at the position 1 m (39.37 in) backward from the mark placed at the center of front axle so that the line becomes perpendicular to the line drawn between point FL-RL and point FR-RR and fix with packing tape.
- Put a mark at the center of rear axle. Use a triangle ruler to draw a line at the position 1 m backward from the mark placed at the center of front axle so that the line becomes perpendicular to the line drawn between point FL-RL and point FR-RR and fix with packing tape.

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)

< BASIC INSPECTION >

[AROUND VIEW MONITOR SYSTEM]



Point FL

2 Point FR

Point RL

4 Point RR

(5) Center position of axle

6 Triangle scale

A. 1 m (39.37 in)

Perform "CALIBRATING CAMERA IMAGE"

CONSULT work support

1. Select "CALIBRATING CAMERA IMAGE".

NOTE:

In random order, perform the operation for all cameras.

- Front camera: "CALIBRATING CAMERA IMAGE (FRONT CAMERA)"
- Passenger side camera: "CALIBRATING CAMERA IMAGE (PASS-SIDE CAMERA)"
- Driver side camera: "CALIBRATING CAMERA IMAGE (DR-SIDE CAMERA)"
- Rear camera: "CALIBRATING CAMERA IMAGE (REAR CAMERA)"
- 2. On each calibration screen of "REAR CAMERA", "FRONT CAMERA", "DR-SIDE CAMERA", and "PASS-SIDE CAMERA", operate "+" and "-" of "AXIS X", "AXIS Y", and "ROTATE", so that images on screen of target line and calibration maker are aligned.
- 3. Press "APPLY" button on CONSULT screen. "Writing..." is displayed, and then the adjustment result is displayed on the display.

CAUTION:

Check that "Writing..." is displayed. Never perform other operations while "Writing..." is displayed.

4. Press "APPLY" button on CONSULT screen. "Writing..." is displayed, and then the adjustment result is written to around view monitor control unit.

CAUTION:

Check that "Writing..." is displayed. Never perform other operations while "Writing..." is displayed.

>> GO TO 6.

6.PERFORM "FINE TUNING OF BIRDS-EYE VIEW"

This mode is designed to align the boundary between each camera image that cannot be aligned in the "CAL-IBRATING CAMERA IMAGE" mode.

(P)CONSULT work support

Select "FINE TUNING OF BIRDS-EYE VIEW".

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CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) [AROUND VIEW MONITOR SYSTEM]

< BASIC INSPECTION >

 Operate "+" and "-" of "AXIS X", "AXIS Y", and "ROTATE", so that images on screen of target line on the ground and marker are aligned between each camera.

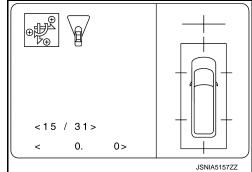
CAUTION:

Perform adjustment operation slowly because approximately 1 second is required for changing image on screen.

NOTE:

Press "SELECT" button on CONSULT screen and select camera position for adjustment.

3. Press "APPLY" button on CONSULT screen. "Writing..." is displayed, and then the adjustment result is displayed on the display.



CAUTION:

Check that "Writing..." is displayed. Never perform other operations while "Writing..." is displayed.

4. Press "APPLY" button on CONSULT screen. "Writing..." is displayed, and then the adjustment result is written to around view monitor control unit.

CAUTION:

- Check that "Writing..." is displayed. Never perform other operations while "Writing..." is displayed.
- After selecting "OK", never perform any operation other than "BACK" on CONSULT.

NOTE:

- The setting can be initialized to the factory default setting using "CALIBRATING CAMERA IMAGE" of work support.
- The adjustment value on this mode is cancelled when "INITIALIZE CAMERA IMAGE CALIBRATION" is performed.

>> Calibration end

B2720 CORNER SENSOR [RL]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

DTC/CIRCUIT DIAGNOSIS

B2720 CORNER SENSOR [RL]

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
		SHORT-BAT (Short to battery)	Short circuit to power supply is detected in harness between sonar control unit and rear corner sensor LH when ignition switch is turned ON.
B2720	CORNER SENSOR [RL] (Corner sensor rear-left)	OPEN/SHORT-GND (Open/Short to ground)	Short circuit to ground or open circuit is detected in harness between sonar control unit and rear corner sensor LH when ignition switch is turned ON.
		SENSOR (Sensor)	Rear corner sensor LH malfunction is detected when ignition switch is turned ON.
		CONFIG ERROR (Configuration error)	Control unit setting of sonar control unit is incomplete or is not set normally.

POSSIBLE CAUSE

- Harness or connectors (Rear corner sensor LH circuit)
- Rear corner sensor LH
- · Control unit setting of sonar control unit is incomplete

FAIL-SAFE

Warning buzzer function is deactivated

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

- 1. Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "SONAR" using CONSULT.
- Check DTC.

Is DTC B2720 detected?

YES (SHORT-BAT)>>Proceed to AV-545, "SHORT-BAT: Diagnosis Procedure".

YES (OPEN/SHORT-GND)>>Proceed to AV-546, "OPEN/SHORT-GND: Diagnosis Procedure".

YES (SENSOR)>>Proceed to AV-547, "SENSOR: Diagnosis Procedure".

YES (CONFIG ERROR)>>Proceed to AV-547, "CONFIG ERROR: Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

SHORT-BAT

SHORT-BAT: Diagnosis Procedure

1. Check rear corner sensor LH signal circuit for short (1)

- Turn ignition switch OFF.
- Disconnect sonar control unit harness connector and rear corner sensor LH harness connector.
- Turn ignition switch ON.
- Check the voltage between sonar control unit harness connector and ground.

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B2720 CORNER SENSOR [RL]

< DTC/CIRCUIT DIAGNOSIS >

(1	+)		Voltage
Sonar co	ontrol unit	(–)	(Approx.)
Connector Terminal			
M76	22	Ground	0 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK REAR CORNER SENSOR LH SIGNAL CIRCUIT FOR SHORT (2)

Check the continuity between rear corner sensor LH harness connector and ground.

(1	+)		Continuity
Rear corne	r sensor LH	(–)	Continuity
Connector	Connector Terminal		
B90	2	Ground	Not existed

Is the inspection result normal?

YES >> Replace rear corner sensor LH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR: Removal and Installation".</u>

NO >> Repair or replace malfunctioning parts.

OPEN/SHORT-GND

OPEN/SHORT-GND : Diagnosis Procedure

INFOID:0000000012795747

1. CHECK REAR CORNER SENSOR LH SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect sonar control unit harness connector and rear corner sensor LH harness connector.
- Check the continuity between sonar control unit harness connector and rear corner sensor LH harness connector.

Sonar control unit		Rear corner sensor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
M76	22	B90	2	Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK REAR CORNER SENSOR LH SIGNAL CIRCUIT FOR SHORT

Check the continuity between sonar control unit harness connector and ground.

(+)		Continuity
Sonar control unit		(–)	Continuity
Connector	Terminal		
M76	22	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

B2720 CORNER SENSOR [RL]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

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Check the continuity between sonar control unit harness connector and rear corner sensor LH harness connector.

Sonar co	ontrol unit	Rear corne	er sensor LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M76	14	B90	1	Existed

Is the inspection result normal?

YES >> Replace rear corner sensor LH. Refer to <u>AV-626</u>, "CORNER SENSOR AND REAR CENTER <u>SENSOR</u>: Removal and Installation".

NO >> Repair or replace malfunctioning parts.

SENSOR

SENSOR : Diagnosis Procedure

 ${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC.
- Perform DTC confirmation procedure again. Refer to <u>AV-545, "DTC Description"</u>.

Is DTC B2720 detected again?

YES >> Replace rear corner sensor LH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR: Removal and Installation".</u>

NO >> INSPECTION END

CONFIG ERROR

CONFIG ERROR : Diagnosis Procedure

1.PERFORM CONFIGURATION OF SONAR CONTROL UNIT

Perform configuration of sonar control unit. Refer to AV-537, "Work Procedure".

>> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-545, "DTC Description".

Is DTC B2720 detected again?

YES >> Replace rear corner sensor LH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR</u>: Removal and Installation".

NO >> INSPECTION END.

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B2721 CENTER SENSOR [RL]

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
		SHORT-BAT (Short to battery)	Short circuit to power supply is detected in harness between sonar control unit and rear center sensor LH when ignition switch is turned ON.
B2721	CENTER SENSOR [RL] (Center sensor rear-left)	OPEN/SHORT-GND (Open/Short to ground)	Short circuit to ground or open circuit is detected in harness between sonar control unit and rear center sensor LH when ignition switch is turned ON.
		SENSOR (Sensor)	Rear center sensor LH malfunction is detected when ignition switch is turned ON.
		CONFIG ERROR (Configuration error)	Control unit setting of sonar control unit is incomplete or is not set normally.

POSSIBLE CAUSE

- · Harness or connectors (Rear center sensor LH circuit)
- Rear center sensor LH
- · Control unit setting of sonar control unit is incomplete

FAIL-SAFE

Warning buzzer function is deactivated

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "SONAR" using CONSULT.
- Check DTC.

Is DTC B2721 detected?

YES (SHORT-BAT)>>Proceed to AV-548, "SHORT-BAT: Diagnosis Procedure".

YES (OPEN/SHORT-GND)>>Proceed to AV-549, "OPEN/SHORT-GND: Diagnosis Procedure".

YES (SENSOR)>>Proceed to AV-550, "SENSOR: Diagnosis Procedure".

YES (CONFIG ERROR)>>Proceed to AV-550, "CONFIG ERROR: Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

SHORT-BAT

SHORT-BAT: Diagnosis Procedure

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1.CHECK REAR CENTER SENSOR LH SIGNAL CIRCUIT FOR SHORT (1)

- Turn ignition switch OFF.
- 2. Disconnect sonar control unit harness connector and rear center sensor LH harness connector.
- Turn ignition switch ON.
- 4. Check the voltage between sonar control unit harness connector and ground.

B2721 CENTER SENSOR [RL]

[AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

(+)		Voltage
Sonar co	ontrol unit	(–)	(Approx.)
Connector Terminal			
M76	21	Ground	0 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK REAR CENTER SENSOR LH SIGNAL CIRCUIT FOR SHORT (2)

Check the continuity between rear center sensor LH harness connector and ground.

(+)		Continuity
Rear cente	r sensor LH	(–)	Continuity
Connector Terminal			
B88	2	Ground	Not existed

Is the inspection result normal?

>> Replace rear center sensor LH. Refer to AV-626, "CORNER SENSOR AND REAR CENTER YES SENSOR: Removal and Installation".

NO >> Repair or replace malfunctioning parts.

OPEN/SHORT-GND

OPEN/SHORT-GND: Diagnosis Procedure

 ${f 1}$.CHECK REAR CENTER SENSOR LH SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect sonar control unit harness connector and rear center sensor LH harness connector.
- Check the continuity between sonar control unit harness connector and rear center sensor LH harness connector.

Sonar control unit		Rear center sensor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
M76	21	B88	2	Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK REAR CENTER SENSOR LH SIGNAL CIRCUIT FOR SHORT

Check the continuity between sonar control unit harness connector and ground.

(+)		Continuity
Sonar co	ontrol unit	(–)	Continuity
Connector	Terminal		
M76	21	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 3.

Revision: November 2016

NO >> Repair or replace malfunctioning parts.

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2016 Q50

B2721 CENTER SENSOR [RL]

[AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK REAR CENTER SENSOR LH GROUND CIRCUIT

Check the continuity between sonar control unit harness connector and rear center sensor LH harness connector.

Sonar co	Sonar control unit		Rear center sensor LH	
Connector	Terminal	Connector Terminal		Continuity
M76	14	B88	1	Existed

Is the inspection result normal?

YES >> Replace rear center sensor LH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR</u>: Removal and Installation".

NO >> Repair or replace malfunctioning parts.

SENSOR

SENSOR: Diagnosis Procedure

INFOID:0000000012795753

1. 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-548, "DTC Description".

Is DTC B2721 detected again?

YES >> Replace rear center sensor LH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR: Removal and Installation".</u>

NO >> INSPECTION END

CONFIG ERROR

CONFIG ERROR: Diagnosis Procedure

INFOID:0000000012795754

${f 1}$.PERFORM CONFIGURATION OF SONAR CONTROL UNIT

Perform configuration of sonar control unit. Refer to AV-537, "Work Procedure".

>> GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-548, "DTC Description".

Is DTC B2721 detected again?

YES >> Replace rear center sensor LH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR</u>: Removal and Installation".

NO >> INSPECTION END.

B2722 CENTER SENSOR [RR]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

B2722 CENTER SENSOR [RR]

DTC Description

DTC DETECTION LOGIC

DTC	Trouble di (Trouble diagno	S .	Detecting condition
		SHORT-BAT (Short to battery)	Short circuit to power supply is detected in harness between sonar control unit and rear center sensor RH when ignition switch is turned ON.
B2722	CENTER SENSOR [RL] (Center sensor rear-left)	OPEN/SHORT-GND (Open/Short to ground)	Short circuit to ground or open circuit is detected in harness between sonar control unit and rear center sensor RH when ignition switch is turned ON.
		SENSOR (Sensor)	Rear center sensor RH malfunction is detected when ignition switch is turned ON.
		CONFIG ERROR (Configuration error)	Control unit setting of sonar control unit is incomplete or is not set normally.

POSSIBLE CAUSE

- · Harness or connectors (Rear center sensor RH circuit)
- Rear center sensor RH
- Control unit setting of sonar control unit is incomplete

FAIL-SAFE

Warning buzzer function is deactivated

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "SONAR" using CONSULT.
- 5. Check DTC.

Is DTC B2722 detected?

- YES (SHORT-BAT)>>Proceed to AV-551, "SHORT-BAT: Diagnosis Procedure".
- YES (OPEN/SHORT-GND)>>Proceed to AV-552, "OPEN/SHORT-GND: Diagnosis Procedure".
- YES (SENSOR)>>Proceed to AV-553, "SENSOR: Diagnosis Procedure".
- YES (CONFIG ERROR)>>Proceed to AV-553, "CONFIG ERROR: Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

SHORT-BAT

SHORT-BAT: Diagnosis Procedure

1.CHECK REAR CENTER SENSOR RH SIGNAL CIRCUIT FOR SHORT (1)

- Turn ignition switch OFF.
- 2. Disconnect sonar control unit harness connector and rear center sensor RH connector.
- 3. Turn ignition switch ON.
- Check the voltage between sonar control unit harness connector and ground.

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Revision: November 2016 **AV-551** 2016 Q50

B2722 CENTER SENSOR [RR]

< DTC/CIRCUIT DIAGNOSIS >

(+)		Voltage
Sonar co	ontrol unit	(–)	(Approx.)
Connector Terminal			
M76	9	Ground	0 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK REAR CENTER SENSOR RH SIGNAL CIRCUIT FOR SHORT (2)

Check the continuity between rear center sensor RH harness connector and ground.

(1	+)		Continuity
Rear cente	r sensor RH	(–)	Continuity
Connector	Terminal		
B89	2	Ground	Not existed

Is the inspection result normal?

YES >> Replace rear center sensor RH . Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR : Removal and Installation"</u>.

NO >> Repair or replace malfunctioning parts.

OPEN/SHORT-GND

OPEN/SHORT-GND : Diagnosis Procedure

INFOID:000000001279575

1. CHECK REAR CENTER SENSOR RH SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect sonar control unit harness connector and rear center sensor RH harness connector.
- 3. Check the continuity between sonar control unit harness connector and rear center sensor RH harness connector.

Sonar co	Sonar control unit		Rear center sensor RH	
Connector	Terminal	Connector Terminal		Continuity
M76	9	B89	2	Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2. CHECK REAR CENTER SENSOR RH SIGNAL CIRCUIT FOR SHORT

Check the continuity between sonar control unit harness connector and ground.

(+)		Continuity
Sonar control unit		(–)	Continuity
Connector	Terminal		
M76	9	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

B2722 CENTER SENSOR [RR]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

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Check the continuity between sonar control unit harness connector and rear center sensor RH harness connector.

Sonar co	ontrol unit	Rear center sensor RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
M76	14	B89	1	Existed

Is the inspection result normal?

YES >> Replace rear center sensor RH . Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR : Removal and Installation".</u>

NO >> Repair or replace malfunctioning parts.

SENSOR

SENSOR : Diagnosis Procedure

 ${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC.
- Perform DTC confirmation procedure again. Refer to <u>AV-551, "DTC Description"</u>.

Is DTC B2722 detected again?

YES >> Replace rear center sensor RH . Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR : Removal and Installation"</u>.

NO >> INSPECTION END

CONFIG ERROR

CONFIG ERROR : Diagnosis Procedure

1. PERFORM CONFIGURATION OF SONAR CONTROL UNIT

Perform configuration of sonar control unit. Refer to AV-537, "Work Procedure".

>> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-551, "DTC Description".

Is DTC B2722 detected again?

YES >> Replace rear center sensor RH . Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR : Removal and Installation"</u>.

NO >> INSPECTION END.

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B2723 CORNER SENSOR [RR]

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
	B2723 CORNER SENSOR [RR] (Corner sensor rear-right)	SHORT-BAT (Short to battery)	Short circuit to power supply is detected in harness between sonar control unit and rear corner sensor RH when ignition switch is turned ON.
B2723		OPEN/SHORT-GND (Open/Short to ground)	Short circuit to ground or open circuit is detected in harness between sonar control unit and rear corner sensor RH when ignition switch is turned ON.
	SENSOR (Sensor)	Rear corner sensor RH malfunction is detected when ignition switch is turned ON.	
		CONFIG ERROR (Configuration error)	Control unit setting of sonar control unit is incomplete or is not set normally.

POSSIBLE CAUSE

- · Harness or connectors (Rear corner sensor RH circuit)
- Rear corner sensor RH
- · Control unit setting of sonar control unit is incomplete

FAIL-SAFE

Warning buzzer function is deactivated

DTC CONFIRMATION PROCEDURE

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "SONAR" using CONSULT.
- 5. Check DTC.

Is DTC B2723 detected?

YES (SHORT-BAT)>>Proceed to AV-554, "SHORT-BAT: Diagnosis Procedure".

YES (OPEN/SHORT-GND)>>Proceed to AV-555, "OPEN/SHORT-GND: Diagnosis Procedure".

YES (SENSOR)>>Proceed to AV-556, "SENSOR: Diagnosis Procedure".

YES (CONFIG ERROR)>>Proceed to AV-556, "CONFIG ERROR: Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

SHORT-BAT

SHORT-BAT: Diagnosis Procedure

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1.CHECK REAR CORNER SENSOR RH SIGNAL CIRCUIT FOR SHORT (1)

- 1. Turn ignition switch OFF.
- Disconnect sonar control unit harness connector and rear corner sensor RH harness connector.
- 3. Turn ignition switch ON.
- Check the voltage between sonar control unit harness connector and ground.

B2723 CORNER SENSOR [RR]

[AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

(+)		Voltage
Sonar co	ontrol unit	(–)	(Approx.)
Connector Terminal			
M76	10	Ground	0 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK REAR CORNER SENSOR RH SIGNAL CIRCUIT FOR SHORT (2)

Check the continuity between rear corner sensor RH harness connector and ground.

(+)		Continuity
Rear corner sensor RH		(–)	Continuity
Connector	Connector Terminal		
B91	2	Ground	Not existed

Is the inspection result normal?

>> Replace rear corner sensor RH. Refer to AV-626, "CORNER SENSOR AND REAR CENTER YES SENSOR: Removal and Installation".

NO >> Repair or replace malfunctioning parts.

OPEN/SHORT-GND

OPEN/SHORT-GND: Diagnosis Procedure

 ${f 1}$.CHECK REAR CORNER SENSOR RH SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect sonar control unit harness connector and rear corner sensor RH harness connector.
- Check the continuity between sonar control unit harness connector and rear corner sensor RH harness connector.

Sonar co	Sonar control unit		Rear corner sensor RH	
Connector	Terminal	Connector Terminal		Continuity
M76	10	B91	2	Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK REAR CORNER SENSOR RH SIGNAL CIRCUIT FOR SHORT

Check the continuity between sonar control unit harness connector and ground.

(+)			Continuity
Sonar control unit		(–)	Continuity
Connector	Terminal		
M76	10	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 3.

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NO >> Repair or replace malfunctioning parts.

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B2723 CORNER SENSOR [RR]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

3.CHECK REAR CORNER SENSOR RH GROUND CIRCUIT

Check the continuity between sonar control unit harness connector and rear corner sensor RH harness connector.

Sonar co	control unit Rear corner sensor RH		Rear corner sensor RH	
Connector	Terminal	Connector	Terminal	Continuity
M76	14	B91	1	Existed

Is the inspection result normal?

YES >> Replace rear corner sensor RH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR</u>: Removal and Installation".

NO >> Repair or replace malfunctioning parts.

SENSOR

SENSOR: Diagnosis Procedure

INFOID:0000000012795763

1. 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-554, "DTC Description".

Is DTC B2723 detected again?

YES >> Replace rear corner sensor RH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR: Removal and Installation".</u>

NO >> INSPECTION END

CONFIG ERROR

CONFIG ERROR: Diagnosis Procedure

INFOID:0000000012795764

1. PERFORM CONFIGURATION OF SONAR CONTROL UNIT

Perform configuration of sonar control unit. Refer to AV-537, "Work Procedure".

>> GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-554, "DTC Description".

Is DTC B2723 detected again?

YES >> Replace rear corner sensor RH. Refer to AV-626, "CORNER SENSOR AND REAR CENTER SENSOR: Removal and Installation".

NO >> INSPECTION END.

B2724 SONAR CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

B2724 SONAR CONTROL UNIT

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B2724	SONAR CONTROL UNIT (Sonar control unit)	Control unit setting of sonar control unit is incomplete or is not set normally.

POSSIBLE CAUSE

Control unit setting of sonar control unit is incomplete

FAIL-SAFE

Warning buzzer function is deactivated

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "SONAR" using CONSULT.
- 5. Check DTC.

Is DTC B2724 detected?

- YES >> Proceed to AV-557, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

1.PERFORM CONFIGURATION OF SONAR CONTROL UNIT

Perform configuration of sonar control unit. Refer to AV-537, "Work Procedure".

>> GO TO 2.

2.perform dtc confirmation procedure again

Perform DTC confirmation procedure again. Refer to AV-557, "DTC Description".

Is DTC B2724 detected again?

YES >> Replace sonar control unit. Refer to AV-623, "Removal and Installation".

NO >> INSPECTION END

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B2729 CORNER SENSOR [FL]

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
		SHORT-BAT (Short to battery)	Short circuit to power supply is detected in harness between sonar control unit and front corner sensor LH when ignition switch is turned ON.
B2729	9 CORNER SENSOR [FL] (Corner sensor front-left)	OPEN/SHORT-GND (Open/Short to ground)	Short circuit to ground or open circuit is detected in harness between sonar control unit and front corner sensor LH when ignition switch is turned ON.
		SENSOR (Sensor)	Front corner sensor LH malfunction is detected when ignition switch is turned ON.
		CONFIG ERROR (Configuration error)	Control unit setting of sonar control unit is incomplete or is not set normally.

POSSIBLE CAUSE

- · Harness or connectors (Front corner sensor LH circuit)
- Front corner sensor LH
- · Control unit setting of sonar control unit is incomplete

FAIL-SAFE

Warning buzzer function is deactivated

DTC CONFIRMATION PROCEDURE

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "SONAR" using CONSULT.
- 5. Check DTC.

Is DTC B2729 detected?

YES (SHORT-BAT)>>Proceed to AV-558, "SHORT-BAT: Diagnosis Procedure".

YES (OPEN/SHORT-GND)>>Proceed to AV-559, "OPEN/SHORT-GND: Diagnosis Procedure".

YES (SENSOR)>>Proceed to AV-560, "SENSOR: Diagnosis Procedure".

YES (CONFIG ERROR)>>Proceed to AV-560, "CONFIG ERROR: Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

SHORT-BAT

SHORT-BAT: Diagnosis Procedure

INFOID:0000000012795768

1.CHECK FRONT CORNER SENSOR LH SIGNAL CIRCUIT FOR SHORT (1)

- 1. Turn ignition switch OFF.
- Disconnect sonar control unit harness connector and front corner sensor LH harness connector.
- 3. Turn ignition switch ON.
- Check the voltage between sonar control unit harness connector and ground.

B2729 CORNER SENSOR [FL]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

(-	+)		Voltage
Sonar control unit		(–)	(Approx.)
Connector	Terminal		
M76	3	Ground	0 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK FRONT CORNER SENSOR LH SIGNAL CIRCUIT FOR SHORT (2)

Check the continuity between front corner sensor LH harness connector ground.

(+)		Continuity
Front corner sensor LH		(–)	Continuity
Connector	Terminal		
E114	2	Ground	Not existed

Is the inspection result normal?

>> Replace front corner sensor LH. Refer to AV-626, "CORNER SENSOR AND REAR CENTER YES SENSOR: Removal and Installation".

NO >> Repair or replace malfunctioning parts.

OPEN/SHORT-GND

OPEN/SHORT-GND: Diagnosis Procedure

1. CHECK FRONT CORNER SENSOR LH SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect sonar control unit harness connector and front corner sensor LH harness connector.
- Check the continuity between sonar control unit harness connector and front corner sensor LH harness connector.

Sonar co	Sonar control unit		Front corner sensor LH	
Connector	Terminal	Connector Terminal		Continuity
M76	3	E114	2	Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK FRONT CORNER SENSOR LH SIGNAL CIRCUIT FOR SHORT

Check the continuity between sonar control unit harness connector and ground.

(+)			Continuity
Sonar control unit		(–)	Continuity
Connector	Terminal		
M76	3	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 3.

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NO >> Repair or replace malfunctioning parts.

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B2729 CORNER SENSOR [FL]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

3. CHECK FRONT CORNER SENSOR LH GROUND CIRCUIT

Check the continuity between sonar control unit harness connector and front corner sensor LH harness connector.

Sonar co	onar control unit Front corner ser		Front corner sensor LH	
Connector	Terminal	Connector Terminal		Continuity
M76	13	E114	1	Existed

Is the inspection result normal?

YES >> Replace front corner sensor LH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR</u>: Removal and Installation".

NO >> Repair or replace malfunctioning parts.

SENSOR

SENSOR: Diagnosis Procedure

INFOID:0000000012795770

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- Perform DTC confirmation procedure again. Refer to <u>AV-558. "DTC Description"</u>.

Is DTC B2729 detected again?

YES >> Replace front corner sensor LH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR: Removal and Installation".</u>

NO >> INSPECTION END

CONFIG ERROR

CONFIG ERROR: Diagnosis Procedure

INFOID:0000000012795771

1. PERFORM CONFIGURATION OF SONAR CONTROL UNIT

Perform configuration of sonar control unit. Refer to AV-537, "Work Procedure".

>> GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-558, "DTC Description".

Is DTC B2729 detected again?

YES >> Replace front corner sensor LH. Refer to AV-626, "CORNER SENSOR AND REAR CENTER SENSOR: Removal and Installation".

NO >> INSPECTION END.

B272A CENTER SENSOR [FL]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

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B272A CENTER SENSOR [FL]

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
		SHORT-BAT (Short to battery)	Short circuit to power supply is detected in harness between sonar control unit and front center sensor LH when ignition switch is turned ON.
B272A	CENTER SENSOR [FL] (Center sensor front-left)	OPEN/SHORT-GND (Open/Short to ground)	Short circuit to ground or open circuit is detected in harness between sonar control unit and front center sensor LH when ignition switch is turned ON.
		SENSOR (Sensor)	Front center sensor LH malfunction is detected when ignition switch is turned ON.
		CONFIG ERROR (Configuration error)	Control unit setting of sonar control unit is incomplete or is not set normally.

POSSIBLE CAUSE

- Harness or connectors (Front center sensor LH circuit)
- Front center sensor LH
- Control unit setting of sonar control unit is incomplete

FAIL-SAFE

Warning buzzer function is deactivated

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "SONAR" using CONSULT.
- 5. Check DTC.

Is DTC B272A detected?

- YES (SHORT-BAT)>>Proceed to AV-561, "SHORT-BAT: Diagnosis Procedure".
- YES (OPEN/SHORT-GND)>>Proceed to AV-562, "OPEN/SHORT-GND: Diagnosis Procedure".
- YES (SENSOR)>>Proceed to AV-563, "SENSOR: Diagnosis Procedure".
- YES (CONFIG ERROR)>>Proceed to AV-563, "CONFIG ERROR: Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

SHORT-BAT

SHORT-BAT: Diagnosis Procedure

 ${\bf 1.} {\sf check\ front\ center\ sensor\ lh\ signal\ circuit\ for\ short\ (1)}$

- Turn ignition switch OFF.
- 2. Disconnect sonar control unit harness connector and front center sensor LH harness connector.

AV-561

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

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B272A CENTER SENSOR [FL]

< DTC/CIRCUIT DIAGNOSIS >

(1	+)		Voltage
Sonar control unit		(–)	(Approx.)
Connector	Terminal		
M76	2	Ground	0 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK FRONT CENTER SENSOR LH SIGNAL CIRCUIT FOR SHORT (2)

Check the continuity between front center sensor LH harness connector and ground.

(+)		Continuity
Front center sensor LH		(-)	Continuity
Connector	Terminal		
E112	2	Ground	Not existed

Is the inspection result normal?

YES >> Replace front center sensor LH. Refer to <u>AV-624, "FRONT CENTER SENSOR: Removal and Installation"</u>.

NO >> Repair or replace malfunctioning parts.

OPEN/SHORT-GND

OPEN/SHORT-GND : Diagnosis Procedure

INFOID:000000001279577

${f 1}$.CHECK FRONT CENTER SENSOR LH SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect sonar control unit harness connector and front center sensor LH harness connector.
- Check the continuity between sonar control unit harness connector and front center sensor LH harness connector.

Sonar co	ontrol unit	Front center sensor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
M76	2	E112	2	Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK FRONT CENTER SENSOR LH SIGNAL CIRCUIT FOR SHORT

Check the continuity between sonar control unit harness connector and ground.

(+)		Continuity
Sonar control unit		(–)	Continuity
Connector	Terminal		
M76	2	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

B272A CENTER SENSOR [FL]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

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Check the continuity between sonar control unit harness connector and front center sensor LH harness connector.

Sonar co	ontrol unit	Front center sensor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
M76	13	E112	1	Existed

Is the inspection result normal?

YES >> Replace front center sensor LH. Refer to <u>AV-624, "FRONT CENTER SENSOR : Removal and Installation".</u>

NO >> Repair or replace malfunctioning parts.

SENSOR

SENSOR : Diagnosis Procedure

 ${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- Turn ignition switch ON.
- Erase DTC.
- Perform DTC confirmation procedure again. Refer to <u>AV-561, "DTC Description"</u>.

Is DTC B272A detected again?

YES >> Replace front center sensor LH. Refer to <u>AV-624, "FRONT CENTER SENSOR: Removal and Installation"</u>.

NO >> INSPECTION END

CONFIG ERROR

CONFIG ERROR : Diagnosis Procedure

1.PERFORM CONFIGURATION OF SONAR CONTROL UNIT

Perform configuration of sonar control unit. Refer to AV-537, "Work Procedure".

>> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-561, "DTC Description".

Is DTC B272A detected again?

YES >> Replace front center sensor LH. Refer to <u>AV-624, "FRONT CENTER SENSOR: Removal and Installation"</u>.

NO >> INSPECTION END.

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B272B CENTER SENSOR [FR]

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
		SHORT-BAT (Short to battery)	Short circuit to power supply is detected in harness between sonar control unit and front center sensor RH when ignition switch is turned ON.
B272B	CENTER SENSOR [FR] (Center sensor front-right)	OPEN/SHORT-GND (Open/Short to ground)	Short circuit to ground or open circuit is detected in harness between sonar control unit and front center sensor RH when ignition switch is turned ON.
		SENSOR (Sensor)	Front center sensor RH malfunction is detected when ignition switch is turned ON.
		CONFIG ERROR (Configuration error)	Control unit setting of sonar control unit is incomplete or is not set normally.

POSSIBLE CAUSE

- Harness or connectors (Front center sensor RH circuit)
- · Front center sensor RH
- Control unit setting of sonar control unit is incomplete

FAIL-SAFE

Warning buzzer function is deactivated

DTC CONFIRMATION PROCEDURE

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "SONAR" using CONSULT.
- 5. Check DTC.

Is DTC B272B detected?

YES (SHORT-BAT)>>Proceed to AV-564, "SHORT-BAT: Diagnosis Procedure".

YES (OPEN/SHORT-GND)>>Proceed to AV-565, "OPEN/SHORT-GND: Diagnosis Procedure".

YES (SENSOR)>>Proceed to AV-566, "SENSOR: Diagnosis Procedure".

YES (CONFIG ERROR)>>Proceed to AV-566, "CONFIG ERROR: Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

SHORT-BAT

SHORT-BAT: Diagnosis Procedure

INFOID:0000000012795778

1. CHECK FRONT CENTER SENSOR RH SIGNAL CIRCUIT FOR SHORT (1)

- 1. Turn ignition switch OFF.
- 2. Disconnect sonar control unit harness connector and front center sensor RH harness connector.
- 3. Turn ignition switch ON.
- Check the voltage between sonar control unit harness connector and ground.

B272B CENTER SENSOR [FR]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

(+)		Voltage
Sonar control unit		(–)	(Approx.)
Connector Terminal			
M76	1	Ground	0 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK FRONT CENTER SENSOR RH SIGNAL CIRCUIT FOR SHORT (2)

Check the continuity between front center sensor RH harness connector and ground.

(+)		Continuity
Front center sensor RH		(–)	Continuity
Connector Terminal			
E113	2	Ground	Not existed

Is the inspection result normal?

YES >> Replace front center sensor RH. Refer to <u>AV-624, "FRONT CENTER SENSOR: Removal and Installation".</u>

NO >> Repair or replace malfunctioning parts.

OPEN/SHORT-GND

OPEN/SHORT-GND : Diagnosis Procedure

1. CHECK FRONT CENTER SENSOR RH SIGNAL CIRCUIT FOR OPEN

- 1. Turn ignition switch OFF.
- Disconnect sonar control unit harness connector and front center sensor RH harness connector.
- Check the continuity between sonar control unit harness connector and front center sensor RH harness connector.

Sonar co	ontrol unit	Front center sensor RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
M76	1	E113	2	Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK FRONT CENTER SENSOR RH SIGNAL CIRCUIT FOR SHORT

Check the continuity between sonar control unit harness connector and ground.

(-	+)		Continuity
Sonar control unit		(–)	Continuity
Connector	Terminal		
M76	1	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

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B272B CENTER SENSOR [FR]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

3. CHECK FRONT CENTER SENSOR RH GROUND CIRCUIT

Check the continuity between sonar control unit harness connector and front center sensor RH harness connector.

Sonar co	ontrol unit	Front center sensor RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
M76	13	E113	1	Existed

Is the inspection result normal?

YES >> Replace front center sensor RH. Refer to <u>AV-624, "FRONT CENTER SENSOR: Removal and Installation"</u>.

NO >> Repair or replace malfunctioning parts.

SENSOR

SENSOR: Diagnosis Procedure

INFOID:0000000012795780

1. 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-564, "DTC Description".

Is DTC B272B detected again?

YES >> Replace front center sensor RH. Refer to <u>AV-624, "FRONT CENTER SENSOR: Removal and Installation"</u>.

NO >> INSPECTION END

CONFIG ERROR

CONFIG ERROR: Diagnosis Procedure

INFOID:0000000012795781

${f 1}$.PERFORM CONFIGURATION OF SONAR CONTROL UNIT

Perform configuration of sonar control unit. Refer to AV-537, "Work Procedure".

>> GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-564, "DTC Description".

Is DTC B272B detected again?

YES >> Replace front center sensor RH. Refer to <u>AV-624, "FRONT CENTER SENSOR: Removal and Installation".</u>

NO >> INSPECTION END.

B272C CORNER SENSOR [FR]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

B272C CORNER SENSOR [FR]

DTC Description INFOID:0000000012795782

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)		Detecting condition
		SHORT-BAT (Short to battery)	Short circuit to power supply is detected in harness between sonar control unit and front corner sensor RH when ignition switch is turned ON.
B272C	CORNER SENSOR [FR] (Corner sensor front-right)	OPEN/SHORT-GND (Open/Short to ground)	Short circuit to ground or open circuit is detected in harness between sonar control unit and front corner sensor RH when ignition switch is turned ON.
		SENSOR (Sensor)	Front corner sensor RH malfunction is detected when ignition switch is turned ON.
		CONFIG ERROR (Configuration error)	Control unit setting of sonar control unit is incomplete or is not set normally.

POSSIBLE CAUSE

- Harness or connectors (front corner sensor RH circuit)
- front corner sensor RH
- Control unit setting of sonar control unit is incomplete

FAIL-SAFE

Warning buzzer function is deactivated

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of "SONAR" using CONSULT.
- 5. Check DTC.

Is DTC B272C detected?

- YES (SHORT-BAT)>>Proceed to AV-567, "SHORT-BAT: Diagnosis Procedure".
- YES (OPEN/SHORT-GND)>>Proceed to AV-568, "OPEN/SHORT-GND: Diagnosis Procedure".
- YES (SENSOR)>>Proceed to AV-569, "SENSOR: Diagnosis Procedure".
- YES (CONFIG ERROR)>>Proceed to AV-569, "CONFIG ERROR: Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

SHORT-BAT

SHORT-BAT: Diagnosis Procedure

1. Check front corner sensor RH signal circuit for short (1)

- Turn ignition switch OFF.
- Disconnect sonar control unit harness connector and front corner sensor RH harness connector. 2.
- 3. Turn ignition switch ON.
- Check the voltage between sonar control unit harness connector and ground.

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B272C CORNER SENSOR [FR]

< DTC/CIRCUIT DIAGNOSIS >

(1	+)		Voltage
Sonar co	ontrol unit	(–)	(Approx.)
Connector Terminal			
M76	4	Ground	0 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK FRONT CORNER SENSOR RH SIGNAL CIRCUIT FOR SHORT (2)

Check the continuity between front corner sensor RH harness connector and ground.

(1	+)		Continuity
Front corner sensor RH		(–)	Continuity
Connector	Terminal		
E115	2	Ground	Not existed

Is the inspection result normal?

YES >> Replace front corner sensor RH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR: Removal and Installation".</u>

NO >> Repair or replace malfunctioning parts.

OPEN/SHORT-GND

OPEN/SHORT-GND : Diagnosis Procedure

INFOID:000000001279578

1. CHECK FRONT CORNER SENSOR RH SIGNAL CIRCUIT FOR OPEN

- 1. Turn ignition switch OFF.
- Disconnect sonar control unit harness connector and front corner sensor RH harness connector.
- Check the continuity between sonar control unit harness connector and front corner sensor RH harness connector.

Sonar control unit		Front corner sensor RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M76	4	E115	2	Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2. CHECK FRONT CORNER SENSOR RH SIGNAL CIRCUIT FOR SHORT

Check the continuity between sonar control unit harness connector and ground.

(+)			Continuity
Sonar control unit		(–)	Continuity
Connector	Terminal		
M76	4	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

B272C CORNER SENSOR [FR]

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

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Check the continuity between sonar control unit harness connector and front corner sensor RH harness connector.

Sonar control unit		Front corner sensor RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M76	13	E115	1	Existed

Is the inspection result normal?

YES >> Replace front corner sensor RH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR : Removal and Installation".</u>

NO >> Repair or replace malfunctioning parts.

SENSOR

SENSOR : Diagnosis Procedure

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-567, "DTC Description"</u>.

Is DTC B272C detected again?

YES >> Replace front corner sensor RH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR: Removal and Installation".</u>

NO >> INSPECTION END

CONFIG ERROR

CONFIG ERROR : Diagnosis Procedure

 ${f 1}$.PERFORM CONFIGURATION OF SONAR CONTROL UNIT

Perform configuration of sonar control unit. Refer to AV-537, "Work Procedure".

>> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-567, "DTC Description".

Is DTC B272C detected again?

YES >> Replace front corner sensor RH. Refer to <u>AV-626, "CORNER SENSOR AND REAR CENTER SENSOR</u>: Removal and Installation".

NO >> INSPECTION END.

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B272D FRONT BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

B272D FRONT BUZZER

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B272D	FRONT BUZZER	A open or short circuit is detected in harness between sonar control unit and buzzer.

POSSIBLE CAUSE

- · Harness or connectors (buzzer circuit)
- · Sonar control unit
- Buzzer

FAIL-SAFE

Warning buzzer function is deactivated

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "SONAR" using CONSULT.
- 5. Check DTC.

Is DTC B272D detected?

YES >> Proceed to AV-570, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795788

1. CHECK BUZZER SIGNAL

(P)With CONSULT

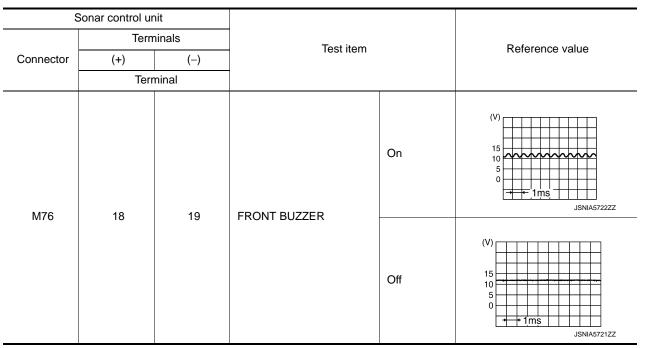
- 1. Turn ignition ON.
- 2. Select "FRONT BUZZER" in "ACTIVE TEST" mode of "SONAR" using CONSULT.
- Perform "FRONT BUZZER", and check the signal between sonar control unit harness connector and ground.

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Is the inspection result normal?

YES >> Replace buzzer. Refer to AV-628, "Removal and Installation".

NO >> GO TO 2.

2.CHECK BUZZER SIGNAL CIRCUIT FOR OPEN

- 1. Turn ignition switch OFF.
- Disconnect sonar control unit harness connector and sonar buzzer harness connector.
- Check the continuity between sonar control unit harness connector and buzzer harness connector.

Sonar control unit		Buzzer		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M76	18	M110	3	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.CHECK BUZZER SIGNAL CIRCUIT FOR SHORT

Check the continuity between sonar control unit harness connector and ground.

Sonar control unit			Continuity
Connector	Terminal	Ground	Continuity
M76	18		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4.CHECK BUZZER SIGNAL GROUND CIRCUIT

Check the continuity between sonar control unit harness connector and buzzer harness connector.

Sonar control unit		Buzzer		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M76	19	M110	2	Existed

B272D FRONT BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

Is the inspection result normal?

YES >> Replace sonar control unit. Refer to AV-623, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

U0428 STEERING ANGLE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

U0428 STEERING ANGLE SENSOR

DTC Description INFOID:0000000012795789

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U0428	ST ANGLE SENSOR CALIBRATION (Steering angle sensor calibration)	The neutral position adjustment of the steering angle sensor is incomplete.

POSSIBLE CAUSE

Neutral position adjustment of steering angle sensor is not complete

FAIL-SAFE

- Predicted course line is not displayed
- MOD (Moving Object Detection) function is stopped
- Front tire angle display is stopped
- Using "SETTING" menu display, switch each indicator of predicted course line display and MOD switch to "OFF" (turn OFF) so that switch operation cannot be performed

DTC CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC U0428 is displayed with DTC U1232, first perform the confirmation procedure (trouble diagnosis) for DTC U1232.

Is applicable DTC detected?

YES >> Perform diagnosis of applicable. Refer to AV-591, "DTC Description".

NO >> GO TO 2.

2 Perform DTC Confirmation procedure

With CONSULT

- 1. Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30seconds or more.
- 4. Select "Self Diagnostic Result" mode of "AVM" using CONSULT.
- Check DTC.

Is DTC U0428 detected?

YES >> Proceed to AV-573, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

${f 1}$. ADJUST THE NEUTRAL POSITION OF THE STEERING ANGLE SENSOR

When U0428 is detected, adjust the neutral position of the steering angle sensor.

Perform adjustment of the neutral position of the steering angle sensor. Refer to BRC-91, "Work Procedure". **CAUTION:**

For vehicles with VDC, adjust the steering angle sensor neutral position on the ABS actuator control unit side.

>> GO TO 2.

2 PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-573, "DTC Description".

Is DTC U0428 detected again?

YES >> Replace steering angle sensor. Refer to AV-629, "Removal and Installation".

>> INSPECTION END NO

AV-573 Revision: November 2016 2016 Q50

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INFOID:0000000012795790

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U1000 CAN COMM CIRCUIT AROUND VIEW MONITOR CONTROL UNIT

AROUND VIEW MONITOR CONTROL UNIT: DTC Description

INFOID:0000000012795791

DESCRIPTION

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

CAN Communication Signal Chart. Refer to <u>LAN-67</u>, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart (2.0L Turbo Gasoline Engine Models)".

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1000	CAN COMM CIRCUIT (CAN communication circuit)	Around view monitor control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

The following functions are stopped

- · When communication of steering angle sensor signal is not normal
- Predicted course line is not displayed
- MOD (Moving Object Detection) function is stopped
- Front tire angle display is stopped
- Using "SETTING" menu display, switch each indicator of predicted course line display and MOD switch to "OFF" (turn OFF) so that switch operation cannot be performed
- When communication of vehicle signal, wheel speed sensor signal, and shift signal is not normal
- Predicted course line is not displayed
- MOD (Moving Object Detection) function is stopped.
- Using "SETTING" menu display, switch each indicator of predicted course line display and MOD switch to "OFF" (turn OFF) so that switch operation cannot be performed
- When communication of sonar signal is not normal
- Predicted course line is not displayed

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 2 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "AVM" using CONSULT.
- 5. Check DTC.

Is DTC U1000 detected?

- YES >> Proceed to AV-574, "AROUND VIEW MONITOR CONTROL UNIT : Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

AROUND VIEW MONITOR CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012795792

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

1. Turn ignition switch ON.

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

- Erase DTC.
- Perform DTC confirmation procedure again. Refer to AV-574, "AROUND VIEW MONITOR CONTROL UNIT: DTC Description".

Is DTC U1000 detected again?

YES >> Perform the trouble diagnosis for CAN communication system. Refer to LAN-41, "Trouble Diagnosis Flow Chart".

NO >> INSPECTION END

SONAR CONTROL UNIT

SONAR CONTROL UNIT: DTC Description

INFOID:0000000012795793

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DESCRIPTION

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

CAN Communication Signal Chart. Refer to LAN-67, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart (2.0L Turbo Gasoline Engine Models)".

DTC DETECTION LOGIC

Trouble diagnosis DTC **Detecting condition** (Trouble diagnosis contents) CAN COMM CIRCUIT Sonar control unit is not transmitting or receiving CAN communication signal for U1000 (CAN communication circuit) 2 seconds or more.

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

Warning buzzer function is deactivated

DTC CONFIRMATION PROCEDURE

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

- Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- Turn ignition switch ON and wait at least 2 seconds or more.
- Select "Self Diagnostic Result" mode of "SONAR" using CONSULT.
- Check DTC.

Is DTC U1000 detected?

>> Proceed to AV-575, "SONAR CONTROL UNIT: Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

SONAR CONTROL UNIT : Diagnosis Procedure

INFOID:000000001279579

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC.
- Perform DTC confirmation procedure again. Refer to AV-575, "SONAR CONTROL UNIT: DTC Description".

Is DTC U1000 detected again?

YES >> Perform the trouble diagnosis for CAN communication system. Refer to LAN-41, "Trouble Diagnosis Flow Chart".

AV-575 Revision: November 2016 2016 Q50

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

NO >> INSPECTION END

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

U1010 CONTROL UNIT (CAN) AROUND VIEW MONITOR CONTROL UNIT

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AROUND VIEW MONITOR CONTROL UNIT: DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition	
U1010	CONTROL UNIT (CAN) [Control unit (CAN)]	Malfunction is detected during initial diagnosis of the around view monitor control unit CAN controller.	

POSSIBLE CAUSE

Around view monitor control unit

FAIL-SAFE

Around view monitor system does not function

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 2 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "AVM" using CONSULT.
- Check DTC.

Is DTC U1010 detected?

YES >> Proceed to AV-577, "AROUND VIEW MONITOR CONTROL UNIT : Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

AROUND VIEW MONITOR CONTROL UNIT: Diagnosis Procedure

INFOID:0000000012795796

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC.
- Perform DTC confirmation procedure again. Refer to <u>AV-577, "AROUND VIEW MONITOR CONTROL UNIT: DTC Description"</u>.

Is DTC U1010 detected again?

YES >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

NO >> INSPECTION END

SONAR CONTROL UNIT

SONAR CONTROL UNIT : DTC Description

INFOID:0000000012795797

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1010	CONTROL UNIT (CAN) [Control unit (CAN)]	Malfunction is detected during initial diagnosis of the sonar control unit CAN controller.

POSSIBLE CAUSE

Sonar control unit

FAIL-SAFE

Revision: November 2016 **AV-577** 2016 Q50

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U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

Warning buzzer function is deactivated

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 2 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "SONAR using CONSULT.
- Check DTC.

Is DTC U1010 detected?

YES >> Proceed to AV-578, "SONAR CONTROL UNIT : Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

SONAR CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012795798

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-577, "SONAR CONTROL UNIT: DTC Description".</u>

Is DTC U1010 detected again?

YES >> Replace sonar control unit. Refer to AV-623, "Removal and Installation".

NO >> INSPECTION END

U111A REAR CAMERA IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

U111A REAR CAMERA IMAGE SIGNAL CIRCUIT

DTC Description INFOID:0000000012795799

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U111A	REAR CAMERA IMAGE SIGNAL (Rear camera image signal)	Rear camera image signal circuit is open or shorted.

POSSIBLE CAUSE

Rear camera image signal circuit

FAIL-SAFE

Camera image is not displayed (Gray screen display)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "AVM" using CONSULT.
- Check DTC.

Is DTC U111A detected?

YES >> Proceed to AV-579, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

${f 1}$.CHECK CONTINUITY REAR CAMERA POWER SUPPLY AND GROUND CIRCUIT

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

	nonitor control nit	Rear camera		Continuity
Connector	Terminal	Connector Terminal		
B51	50	T50	8	Existed
	52	130	7	LAISIGU

Check continuity between around view monitor control unit harness connector and ground.

	nonitor control nit		Continuity
Connector	Terminal	Ground	
B51	50		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE REAR CAMERA POWER SUPPLY

Connect around view monitor control unit connector and rear camera connector.

AV-579 Revision: November 2016 2016 Q50

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INFOID:0000000012795800

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U111A REAR CAMERA IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

- Turn ignition switch ON.
- 3. Check voltage between around view monitor control unit harness connector and ground.

	Terminals		Condition	Voltage (Approx.)
(+)			
Around view mo	onitor control unit	(-)		
Connector Terminal				
B51	50	Ground	"CAMERA" switch is ON or shift position is "R".	6.0 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

3. CHECK CONTINUITY REAR CAMERA IMAGE SIGNAL CIRCUIT

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

	nonitor control nit	Rear camera		Continuity
Connector	Terminal	Connector Terminal		
B51	53	T51	5	Existed
B31	54	131	1	LXISIEG

4. Check continuity between around view monitor control unit harness connector and ground.

	monitor control Init		Continuity
Connector	Terminal	Ground	
B51	53		Not existed
D 31	54		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK REAR CAMERA IMAGE SIGNAL

- 1. Connect around view monitor control unit connector and rear camera connector.
- 2. Turn ignition switch ON.
- 3. Check signal between around view monitor control unit harness connector.

Around view monitor control unit					
	Terminals		Condition	Reference value	
Connector	(+)	(-)	Condition	Reference value	
	Terminal				
B51	53	54	"CAMERA" switch is ON or shift position is "R".	(V) 1 0 -1 + 40 μ s JSNIA0834GB	

Is the inspection result normal?

U111A REAR CAMERA IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

YES >> Replace around view monitor control unit. Refer to <u>AV-619, "Removal and Installation"</u>. NO >> Replace rear camera. Refer to <u>AV-622, "Removal and Installation"</u>.

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U111B SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

U111B SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U111B	SIDE CAMERA RH IMAGE SIGNAL (Side camera right image signal)	Side camera RH image signal circuit is open or shorted.

POSSIBLE CAUSE

Side camera RH image signal circuit

FAIL-SAFE

Camera image is not displayed (Gray screen display)

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "AVM" using CONSULT.
- 5. Check DTC.

Is DTC U111B detected?

YES >> Proceed to AV-582, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795802

1. CHECK CONTINUITY SIDE CAMERA RH POWER SUPPLY AND GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect around view monitor control unit connector and door mirror (passenger side) connector.
- 3. Check continuity between around view monitor control unit harness connector and door mirror (passenger side) harness connector.

With automatic drive positioner

	nonitor control nit	Door mirror (passenger side)		Continuity
Connector	Terminal	Connector Terminal		
B51	62	D57	6	Existed
	64	537	18	LAISIEU

Without automatic drive positioner

	nonitor control nit	Door mirror (passenger side)		Continuity
Connector	Terminal	Connector Terminal		
B51	62	D17	6	Existed
БЭТ	64	ווט	18	EXISTECT

Check continuity between door mirror (passenger side) connector harness connector and ground.

U111B SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

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With auton	natic drive positi	oner	
Door mirror (passenger side)			Continuity
Connector	Terminal	Ground	
D57	6		Not existed
טטו	18		ivot existed
Without au	tomatic drive po	sitioner	
	mirror ger side)		Continuity
Connector	Terminal	Ground	
D17	6		Not existed
517	18		140t existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE SIDE CAMERA RH POWER SUPPLY

- 1. Connect around view monitor control unit connector and door mirror (passenger side) connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between around view monitor control unit harness connector and ground.

	Terminals				
(+)		Condition	Voltage	
Around view monitor control unit		(–)	Condition	(Approx.)	
Connector	Terminal				
B51	62	Ground	"CAMERA" switch is ON or shift position is "R".	6.0 V	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

3.CHECK CONTINUITY SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect around view monitor control unit connector and door mirror (passenger side) connector.
- Check continuity between around view monitor control unit harness connector and door mirror (passenger side) harness connector.

With automatic drive positioner

	monitor control nit	Door mirror (passenger side)		Continuity
Connector	Terminal	Connector Terminal		
B51	65	D57	5	Existed
D01	66	D37	17	LXISIEU

Without automatic drive positioner

	monitor control nit	Door mirror (passenger side)		Continuity
Connector	Terminal	Connector Terminal		
B51	65	D17	5	Existed
וכם	66	ווט	17	LAISIEU

4. Check continuity between around view monitor control unit harness connector and ground.

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U111B SIDE CAMERA RH IMAGE SIGNAL CIRCUIT [AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

	nonitor control nit		Continuity
Connector	Terminal	Ground	
B51	65		Not existed
וטט	66		INOL EXISTED

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK SIDE CAMERA RH IMAGE SIGNAL

- Connect around view monitor control unit connector and door mirror (passenger side) connector.
- Turn ignition switch ON.
- Check signal between around view monitor control unit harness connector.

Around view monitor control unit				
	Terminals		Condition	Reference value
Connector	(+)	(-)	Condition	Reference value
	Terr	ninal		
B51	65	66	"CAMERA" switch is ON or shift position is "R".	(V) 1 0 -1 40 µ s JSNIA0834GB

Is the inspection result normal?

>> Replace around view monitor control unit. Refer to <u>AV-619, "Removal and Installation"</u>. >> Replace side camera RH. Refer to <u>AV-621, "Removal and Installation"</u>. YES

NO

U111C FRONT CAMERA IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

U111C FRONT CAMERA IMAGE SIGNAL CIRCUIT

DTC Description

INFOID:0000000012795803

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U111C	FRONT CAMERA IMAGE SIGNAL (Front camera image signal)	Front camera image signal circuit is open or shorted.

POSSIBLE CAUSE

Front camera image signal circuit

FAIL-SAFE

Camera image is not displayed (Gray screen display)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "AVM" using CONSULT.
- Check DTC.

Is DTC U111C detected?

YES >> Proceed to AV-585, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident"

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795804

${f 1}$.CHECK CONTINUITY FRONT CAMERA POWER SUPPLY AND GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect around view monitor control unit connector and front camera connector.
- 3. Check continuity between around view monitor control unit harness connector and front camera harness connector.

	nonitor control nit	Front	camera	Continuity
Connector	Terminal	Connector	Terminal	
B51	68	E116	1	Existed
БОТ	70	LIIU	2	LXISIEU

Check continuity between front camera harness connector and ground.

Front	camera		Continuity
Connector	Terminal	Ground	Continuity
E116	1	Giouna	Not existed
E110	2		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE FRONT CAMERA POWER SUPPLY

Connect around view monitor control unit connector and front camera connector.

AV-585 Revision: November 2016 2016 Q50

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U111C FRONT CAMERA IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

- Turn ignition switch ON.
- 3. Check voltage between around view monitor control unit harness connector.

Around view monitor control unit				
Connector	Term	ninals	Condition	Voltage (Approx.)
	(+)	(-)	Condition	
	Terminal			
B51	68	70	"CAMERA" switch is ON or shift position is "R".	6.0 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

3. CHECK CONTINUITY FRONT CAMERA IMAGE SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect around view monitor control unit connector and front camera connector.
- 3. Check continuity between around view monitor control unit harness connector and front camera harness connector.

	nonitor control nit	Front camera		Continuity
Connector	Terminal	Connector Terminal		
B51	71	E116	3	Existed
БЭТ	72	LIIO	4	LXISIEU

4. Check continuity between around view monitor control unit harness connector and ground.

	monitor control nit		Continuity
Connector	Terminal	Ground	
B51	71		Not existed
D31	72		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4.CHECK FRONT CAMERA IMAGE SIGNAL

- 1. Connect around view monitor control unit connector and front camera connector.
- 2. Turn ignition switch ON.
- 3. Check signal between around view monitor control unit harness connector.

Around	Around view monitor control unit				
	Terminals		Condition	Reference value	
Connector	(+)	(-)	Condition	Reference value	
	Terminal				
B51	71	72	"CAMERA" switch is ON or shift position is "R".	(V) 1 0 -1 40 μ s JSNIA0834GB	

Is the inspection result normal?

U111C FRONT CAMERA IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

YES >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

NO >> Replace front camera. Refer to AV-620, "Removal and Installation".

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U111D SIDE CAMERA LH IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

U111D SIDE CAMERA LH IMAGE SIGNAL CIRCUIT

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U111D	SIDE CAMERA LH IMAGE SIGNAL (Side camera left image signal)	Side camera LH image signal circuit is open or shorted.

POSSIBLE CAUSE

Side camera LH image signal circuit

FAIL-SAFE

Camera image is not displayed (Gray screen display).

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "AVM" using CONSULT.
- 5. Check DTC.

Is DTC U111D detected?

YES >> Proceed to AV-588, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795806

1. CHECK CONTINUITY SIDE CAMERA LH POWER SUPPLY AND GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect around view monitor control unit connector and door mirror (driver side) connector.
- 3. Check continuity between around view monitor control unit harness connector and door mirror (driver side) harness connector.

With automatic drive positioner

Around view monitor control unit		Door mirror (driver side)		Continuity
Connector	Terminal	Connector Terminal		
B51	56	D56	6	Existed
	58	D30	18	LXISIEU

Without automatic drive positioner

	nonitor control nit	Door mirror (driver side)		Continuity
Connector	Terminal	Connector Terminal		
B51	56	D3	6	Existed
B51	58	DS	18	Existed

4. Check continuity between around view monitor control unit harness connector and ground.

U111D SIDE CAMERA LH IMAGE SIGNAL CIRCUIT

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	CUIT DIAGN				-
With auton	natic drive positi	oner			
Door mirror	(driver side)			Otimtit	_
Connector	Terminal	0.44	ound	Continuity	
D56	6	GIC	ound	Not existed	
D36	18			Not existed	
Without au	tomatic drive po	sitioner			
Door mirror	(driver side)			Continuitu	_
Connector	Terminal	Cre	ound	Continuity	
D3	6	GIC	Juliu	Not existed	
DS	18			Not existed	
	OLTAGE S		RA LH POWE		r mirror (driver side) connector.
. Connec 2. Turn ign 3. Check v	OLTAGE S t around view	IDE CAMER w monitor co ON. een around	RA LH POWE	nnector and doo	r mirror (driver side) connector. ness connector and ground.
. Connec 2. Turn ign 3. Check v	VOLTAGE S t around view ition switch voltage between	IDE CAMER w monitor co ON. een around	RA LH POWE ontrol unit conview monitor	nnector and doo	ness connector and ground.
. Connec 2. Turn ign 3. Check v	VOLTAGE S t around view ition switch voltage between	IDE CAMER w monitor co ON. een around v ontrol unit	RA LH POWE ontrol unit conview monitor	nnector and doo	, ,
. Connec 2. Turn ign 3. Check v	t around view ition switch voltage between the voltage between the view monitor control (+)	IDE CAMER w monitor co ON. een around	RA LH POWE ontrol unit conview monitor	nnector and doo	ness connector and ground. Voltage
. Connec 2. Turn ign 3. Check v	t around view ition switch voltage between the voltage between the view monitor control (+)	w monitor co ON. een around ontrol unit ninals	RA LH POWE ontrol unit conview monitor	control unit hard	ness connector and ground. Voltage

- 1. Turn ignition switch OFF.
- 2. Disconnect around view monitor control unit connector and door mirror (driver side) connector.
- 3. Check continuity between around view monitor control unit harness connector and door mirror (driver side) harness connector.

With automatic drive positioner

	monitor control nit	Door mirror (driver side)		Continuity
Connector	Terminals	Connector Terminals		
B51	59	D56	5	Existed
	60	D30	17	Existed

Without automatic drive positioner

Around view monitor control unit		Door mirror (driver side)		Continuity
Connector	Terminals	Connector Terminals		
B51	59	D3	5	Existed
D31	60	D3	17	LXISIEU

Check continuity between around view monitor control unit harness connector and ground.

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U111D SIDE CAMERA LH IMAGE SIGNAL CIRCUIT [AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

	nonitor control nit		Continuity
Connector	Terminals	Ground	
B51 59			Not existed
ы	60		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK SIDE CAMERA LH IMAGE SIGNAL

- 1. Connect around view monitor control unit connector and door mirror (driver side) connector.
- 2. Turn ignition switch ON.
- 3. Check signal between around view monitor control unit harness connector.

Around view monitor control unit					
	Terminals		Condition	Reference value	
Connector	(+)	(-)	Condition	Reference value	
	Terminal				
B268	59	60	"CAMERA" switch is ON or shift position is "R".	(V) 1 0 -1 -40 μ s JSNIA0834GB	

Is the inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

NO >> Replace side camera LH. Refer to AV-621, "Removal and Installation".

U1232 STEERING ANGLE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

U1232 STEERING ANGLE SENSOR

DTC Description

INFOID:0000000012795807

DESCRIPTION

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Steering angle sensor is connected to the display control unit and transmits the steering angle signal via CAN communication.

DTC DETECTION LOGIC

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DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1232	ST ANGLE SEN CALIB (Steering angle sensor calibration)	Predictive course line center position adjustment of the steering angle sensor is incomplete.

POSSIBLE CAUSE

Predictive course line center position adjustment of the steering angle sensor is incomplete

FAIL-SAFE

- Predicted course line is not displayed
- MOD (Moving Object Detection) function is stopped
- Tire icon is stopped
- Using "SETTING" menu display, switch each indicator of predicted course line display and MOD switch to "OFF" (turn OFF) so that switch operation cannot be performed

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "AVM" using CONSULT.
- Check DTC.

Is DTC U1232 detected?

YES >> Proceed to AV-591, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795808

1.adjust the predictive course line center position of the steering angle sensor

Adjusts the steering angle sensor neutral position on ABS actuator and electrical unit (control unit) side. Refer to BRC-91, "Work Procedure".

NOTE:

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

>> GO TO 2.

2.perform dtc confirmation procedure again

Perform DTC confirmation procedure again. Refer to AV-591, "DTC Description".

Is DTC U1232 detected again?

YES >> Replace steering angle sensor. Refer to AV-629, "Removal and Installation".

NO >> INSPECTION END

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DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1302	CAMERA POWER VOLT (Camera power voltage)	Camera power supply voltage does not satisfy the following conditions for 2 seconds or more when ignition switch is turned ON. • When camera power supply output is ON: 5.9 – 6.5 V. • When OFF: 0 V by camera power supply measurement.

POSSIBLE CAUSE

- Short circuit to battery or short circuit to ground of camera power supply output circuit.
- · Around view monitor control unit

FAIL-SAFE

Camera power output is stopped

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "AVM" using CONSULT.
- 5. Check DTC.

Is DTC U1302 detected?

YES >> Proceed to AV-592, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795810

${f 1}.$ check around view monitor control unit power supply and ground circuit

Check around view monitor control unit power supply and ground circuit. Refer to AV-599, "AROUND VIEW MONITOR CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2.CHECK REAR CAMERA POWER SUPPLY OUTPUT CIRCUIT (CHECK FOR SHORT CIRCUIT)

- 1. Disconnect around view monitor control unit connector and rear camera connector.
- Check whether or not continuity between around view monitor control unit harness connector and ground is normal.

Around view monitor control unit			Continuity
Connector	Terminal	Ground	Continuity
B51	50		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

${f 3.}$ CHECK REAR CAMERA POWER SUPPLY 1

- 1. Connect around view monitor control unit connector.
- 2. Turn ignition switch ON.

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

3. Check whether or not voltage between around view monitor control unit harness connectors is normal.

Around view monitor control unit			
	Reference value		
Connector	(+)	(–)	(Approx.)
	Terminal		
B51	50	52	6.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

4. CHECK REAR CAMERA POWER SUPPLY 2

- 1. Turn ignition switch OFF.
- 2. Connect rear camera connector.
- 3. Turn ignition switch ON.
- 4. Check whether or not voltage between around view monitor control unit harness connectors is normal.

Around view monitor control unit			
	Reference value		
Connector	(+)	(Approx.)	
	Terr	minal	
B51	50	52	6.0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace rear camera. Refer to AV-622, "Removal and Installation".

$\mathbf{5}$.CHECK FRONT CAMERA POWER SUPPLY OUTPUT CIRCUIT (CHECK FOR SHORT CIRCUIT)

- 1. Turn ignition switch OFF.
- Disconnect around view monitor control unit connector and front camera connector.
- 3. Check whether or not continuity between around view monitor control unit harness connector and ground is normal.

Around view monitor control unit			Continuity
Connector Terminal		Ground	Continuity
B51	68		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair the harnesses or connectors.

6.CHECK FRONT CAMERA POWER SUPPLY 1

- Connect around view monitor control unit connector.
- Turn ignition switch ON.
- 3. Check whether or not voltage between around view monitor control unit harness connectors is normal.

Around view monitor control unit			
	Reference value		
Connector	(+)	(-)	(Approx.)
	Terminal		
B51	68	70	6.0 V

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

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< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

7.CHECK FRONT CAMERA POWER SUPPLY 2.

- 1. Turn ignition switch OFF.
- 2. Connect front camera connector.
- 3. Turn ignition switch ON.
- 4. Check whether or not voltage between around view monitor control unit harness connectors is normal.

Around view monitor control unit			
Terminals			Reference value
Connector	(+)	(-)	(Approx.)
B51	68	70	6.0 V

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace front camera. Refer to AV-620, "Removal and Installation".

8.check side camera rh power supply output circuit (check for short circuit)

- 1. Turn ignition switch OFF.
- 2. Disconnect around view monitor control unit connector and door mirror (driver side) connector.
- 3. Check whether or not continuity between around view monitor control unit harness connector and ground is normal.

Around view mo	Around view monitor control unit		Continuity
Connector	Terminal	Ground	Continuity
B51	62		Not existed

Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair the harnesses or connectors.

9.CHECK SIDE CAMERA RH POWER SUPPLY 1

- 1. Connect around view monitor control unit connector.
- 2. Turn ignition switch ON.
- 3. Check whether or not voltage between around view monitor control unit harness connectors is normal.

Around view monitor control unit			
	Terminals		
Connector	(+)	(-)	(Approx.)
	Terminal		
B51	62	64	6.0 V

Is the inspection result normal?

YES >> GO TO 10.

NO >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

10. CHECK SIDE CAMERA RH POWER SUPPLY 2

- 1. Turn ignition switch OFF.
- 2. Connect door mirror (driver side) connector.
- 3. Turn ignition switch ON.
- 4. Check whether or not voltage between around view monitor control unit harness connectors is normal.

[AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Aroun	d view monitor con	trol unit	
	Terminals		Reference value
Connector	(+)	(-)	(Approx.)
	Terminal		
B51	62	64	6.0 V

Is the inspection result normal?

YES >> GO TO 11.

NO >> Replace side camera RH. Refer to AV-621, "Removal and Installation".

11. CHECK SIDE CAMERA LH POWER SUPPLY OUTPUT CIRCUIT (CHECK FOR SHORT CIRCUIT)

- 1. Turn ignition switch OFF.
- 2. Disconnect around view monitor control unit connector and door mirror (passenger side) connector.
- 3. Check whether or not continuity between around view monitor control unit harness connector and ground is normal.

Around view monitor control unit			Continuity
Connector Terminal		Ground	Continuity
B51	56		Not existed

Is the inspection result normal?

YES >> GO TO 12.

NO >> Repair the harnesses or connectors.

12. CHECK SIDE CAMERA LH POWER SUPPLY 1

- 1. Connect around view monitor control unit connector.
- 2. Turn ignition switch ON.
- 3. Check whether or not voltage between around view monitor control unit harness connectors is normal.

Around view monitor control unit			
	Reference value		
Connector	(+)	(-)	(Approx.)
	Terr	minal	
B51	56	58	6.0 V

Is the inspection result normal?

YES >> GO TO 13.

NO >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

13.CHECK SIDE CAMERA LH POWER SUPPLY 2

- Turn ignition switch OFF.
- 2. Connect door mirror (passenger side) connector.
- Turn ignition switch ON.
- 4. Check whether or not voltage between around view monitor control unit harness connectors is normal.

Around view monitor control unit			
	Reference value		
Connector	(+)	(-)	(Approx.)
	Terminal		
B51	56	58	6.0 V

Is the inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

NO >> Replace side camera LH. Refer to AV-621, "Removal and Installation".

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U1303 LED POWER SUPPLY VOLT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

U1303 LED POWER SUPPLY VOLT

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1303	LED POWER SUPPLY VOLT (LED power supply voltage)	The following condition of the supplemental lighting supply voltage is not satisfied for continuously 2 seconds or more when turing the ignition switch ON. • Supplemental lighting supply output ON: 5.2 - 5.8 V

NOTE:

This vehicle is equipped with a supplemental lighting supply output circuit but not a supplemental light

POSSIBLE CAUSE

- Short circuit to battery or short circuit to ground of supplemental lighting output circuit
- Around view monitor control unit

FAIL-SAFE

None

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "AVM" using CONSULT.
- Check DTC.

Is DTC U1303 detected?

YES >> Proceed to AV-596, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795812

1.DTC CONFIRMATION PROCEDURE AGAIN

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- 3. Perform DTC confirmation procedure again. Refer to AV-596, "DTC Description".

Is DTC U1303 detected again?

YES >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

NO >> INSPECTION END

U1304 CAMERA IMAGE CALIBRATION

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

U1304 CAMERA IMAGE CALIBRATION

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1304	CAMERA IMAGE CALIB (Camera image calibration)	Camera calibration is incomplete. NOTE: Current malfunction is displayed only and is not saved.

POSSIBLE CAUSE

Camera calibration is incomplete

FAIL-SAFE

Unmatched icon ⊠ display (red) is displayed (applicable for unmatched camera only)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "AVM" using CONSULT.
- 5. Check DTC.

Is DTC U1304 detected?

- YES >> Proceed to AV-597, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

1.PERFORM CALIBRATING CAMERA IMAGE

Perform camera calibration. Refer to AV-539, "Description".

>> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-597, "DTC Description".

Is DTC U1304 detected again?

YES >> Replace malfunctioning camera.

NO >> INSPECTION END

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[AROUND VIEW MONITOR SYSTEM]

U1305 CONFIG UNFINISH

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1305	CONFIG UNFINISH (Configuration unfinish)	The vehicle setting of around view monitor control unit is incomplete. NOTE: Current malfunction is displayed only and is not saved.

POSSIBLE CAUSE

The vehicle setting of around view monitor control unit is incomplete

FAIL-SAFE

Operation is according to the vehicle setting value as default value

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Turn ignition switch OFF and wait at least 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- 4. Select "Self Diagnostic Result" mode of "AVM" using CONSULT.
- 5. Check DTC.

Is DTC U1305 detected?

YES >> Proceed to AV-598, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012795816

1. PERFORM CONFIGURATION OF AROUND VIEW MONITOR CONTROL UNIT

Perform configuration of around view monitor control unit. Refer to AV-536, "Work Procedure".

>> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-598, "DTC Description".

Is DTC U1305 detected again?

YES >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

NO >> INSPECTION END

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT AROUND VIEW MONITOR CONTROL UNIT

AROUND VIEW MONITOR CONTROL UNIT: Diagnosis Procedure

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1.CHECK FUSE

- Turn ignition switch OFF.
- Check that the following fuse is not blown (open).

VR30DDTT engine

Power source	Fuse No.	Capacity
Battery	#7	15 A
Ignitions switch ACC	#1	10 A
Ignition switch ON	#14	5 A

2.0L turbo gasoline engine

Power source	Fuse No.	Capacity
Battery	#84	15 A
Ignitions switch ACC	#93	10 A
Ignition switch ON	#77	10 A

Is the fuse blown (open)?

YES >> Replace fuse after repairing the applicable circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUITS

Check voltage between around view monitor control unit harness connector and ground.

	Terminals				
Signal name	(+)			Ignition switch position	Value (Approx.)
Signal Hame	Around view monitor control unit		(–)		
	Connector	Terminal			
Battery power supply		2		OFF	
ACC power supply	B50	4	Ground	ACC	Battery voltage
Ignition signal		3	1	ON	

Is inspection result normal?

YES >> GO TO 3.

NO >> Check harness between around view monitor control unit and fuse.

3. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect around view monitor control unit connector. 2.
- Check continuity between around view monitor control unit harness connector and ground.

(+)		Continuity
Around view mo	onitor control unit	(–)	Continuity
Connector	Terminal		
B50	1	Ground	Existed

Is inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

SONAR CONTROL UNIT

SONAR CONTROL UNIT: Diagnosis Procedure

INFOID:0000000012795818

1. CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check that the following fuse is not blown (open).

VR30DDTT engine

Power source	Fuse No.	Capacity
Ignition switch ON	#14	5 A
2.0L turbo gasoline e	engine	
Power source	Fuse No.	Capacity
Ignition switch ON	#77	10 A

Is the fuse blown (open)?

YES >> Replace fuse after repairing the applicable circuit.

NO >> GO TO 2.

2.CHECK IGNITION POWER SUPPLY CIRCUIT

- 1. Turn ignition switch ON.
- 2. Check the voltage between sonar control unit harness connector and ground.

(-	+)		Voltage
Sonar co	ontrol unit	(–)	voltage
Connector Terminal			
M76 12		Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair sonar control unit power supply harness.

3.CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect sonar control unit harness connector.
- 3. Check the continuity between sonar control unit harness connector and ground.

(-	+)		Continuity
Sonar co	ontrol unit	(–)	Continuity
Connector	Terminal		
M76	15	Ground	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair sonar control unit ground harness.

CAMERA IMAGE SIGNAL CIRCUIT (WITH AROUND VIEW MONITOR)

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

CAMERA IMAGE SIGNAL CIRCUIT (WITH AROUND VIEW MONITOR)

Description INFOID:0000000012795819

Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the display control unit.

Diagnosis Procedure

INFOID:0000000012795820

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1. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT FOR OPEN

- 1. Turn ignition switch OFF.
- 2. Disconnect display control unit harness connector and around view monitor control unit harness connector
- Check continuity between display control unit harness connector and around view monitor control unit harness connector.

Display control unit		Around view monitor control unit		Continuity
Connector	Terminal	Connector Terminal		
M101	38	B51	47	Existed
WITOI	58	D31	48	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT FOR SHORT

Check continuity between display control unit harness connector and ground.

Display o	ontrol unit		Continuity	
Connector Terminal		Ground	Continuity	
M101	58		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.CHECK CAMERA IMAGE SIGNAL

- 1. Connect display control unit harness connector and around view monitor control unit harness connector.
- Turn ignition switch ON.
- 3. Check signal between display control unit harness connector and ground.

	Terminals			
(+)		Condition	Reference value
Display control unit		(-)	Condition	ixelefelice value
Connector	Terminal			
M101	58	Ground	At camera image is displayed.	(V) 1 0 -1 + 40 μ s JSNIA0834GB

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

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CAMERA IMAGE SIGNAL CIRCUIT (WITH AROUND VIEW MONITOR) [AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

>> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

AV-602 Revision: November 2016 2016 Q50

CAMERA SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

CAMERA SWITCH SIGNAL CIRCUIT

Description INFOID:000000012795821

- The camera switch signal is output to integral switch when the camera switch of multifunction switch is pressed.
- The integral switch transmits camera switch signal to the display control unit.
- The display control unit transmits camera switch signal via AV communication to the around view monitor control unit.

Component Function Check

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1. CHECK CAMERA SWITCH SIGNAL

(P)With CONSULT

- 1. Turn ignition ON.
- 2. Select "CAMERA SWITCH SIGNAL" in "DATA MONITOR" mode of "AVM" using CONSULT.
- 3. Check "CAMERA SWITCH SIGNAL" indication as per the following condition.

Monitor item	Cor	dition	Indication
CAMERA SWITCH	Camera switch	Press	On
SIGNAL	Camera Switch	Except above	Off

Is the inspection result normal?

YES >> INSPECTION END

NO >> Proceed to AV-603, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012795823

- 1. CHECK CAMERA SWITCH INPUT SIGNAL OF DISPLAY CONTROL UNIT
- 1. Turn ignition switch ON.
- 2. Check the voltage between display control unit harness connector and ground.

	Terminals				
((+)		Condition		Voltage (Approx.)
Display o	Display control unit				
Connector	Terminal				
M100	26	Ground	Camera switch	ON	0 – 2.5 V
W100	20	Glound	Camera switch	OFF	3.0 V

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> GO TO 2.

2.CHECK CAMERA SWITCH INPUT SIGNAL OF INTEGRAL SWITCH

Check the voltage between integral switch harness connector and ground.

	Terminals				
((+) Integral switch		Condition		Voltage (Approx.)
Integra					
Connector	Terminal				
M1	19	Ground	Camera switch	ON	0 – 2.5 V
1011	19	Ground	Camera switch	OFF	3.0 V

Is the inspection result normal?

YES >> GO TO 3.

CAMERA SWITCH SIGNAL CIRCUIT

[AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 5.

3.check camera switch input signal circuit of display control unit for open

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

Display c	ontrol unit	Integral switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M100	26	M1	19	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

$oldsymbol{4}.$ CHECK CAMERA SWITCH INPUT SIGNAL CIRCUIT OF DISPLAY CONTROL UNIT FOR SHORT

Check the continuity between display control unit harness connector and ground.

Display o	ontrol unit		Continuity
Connector	Terminal	Ground	Continuity
M100	26		Not existed

Is the inspection result normal?

YES >> Replace integral switch. Refer to AV-410, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

${f 5.}$ CHECK CAMERA SWITCH INPUT SIGNAL CIRCUIT OF INTEGRAL SWITCH FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect integral switch harness connector and multifunction switch harness connector.
- Check the continuity between integral switch harness connector and multifunction switch harness connector.

Integra	Integral switch Multifunction switch			Continuity
Connector	Terminal	Connector	Terminal	Continuity
M3	39	M55	10	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace malfunctioning parts.

O.CHECK CAMERA SWITCH INPUT SIGNAL CIRCUIT OF INTEGRAL SWITCH FOR SHORT

Check the continuity between integral switch harness connector and ground.

Integra	ll switch		Continuity	
Connector	Terminal	Ground	Continuity	
M3	39		Not existed	

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace malfunctioning parts.

7. CHECK MULTIFUNCTION SWITCH

Check multifunction switch. Refer to AV-605, "Component Inspection".

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace multifunction switch. Refer to AV-411, "Removal and Installation".

CAMERA SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

Component Inspection

INFOID:0000000012795824

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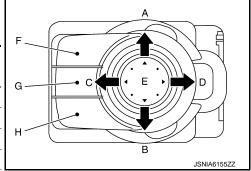
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1. CHECK MULTIFUNCTION SWITCH (1)

- 1. Turn ignition switch OFF.
- 2. Disconnect multifunction switch harness connector.
- 3. Check the resistance between multifunction switch terminals as per the following condition.

Terr	minal	Switch position	Resistance (Ω)
(+)	(-)	CWIGH POSITION	110010101100 (22)
		All OFF	4632 - 4868
1		E	390.1 - 410.1
		F	45.3 - 47.7
		All OFF	4632 - 4868
4		A	605.1 - 636.2
4	2	В	211.2 - 222.0
		G	45.3 - 47.7
-		All OFF	4632 - 4868
10		С	605.1 - 636.2
10		D	211.2 - 222.0
		Н	45.3 - 47.7



Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace multifunction switch. Refer to AV-411, "Removal and Installation".

2.CHECK MULTIFUNCTION SWITCH (2)

- Reconnect all harness connectors disconnected.
- 2. Turn ignition switch ON.
- 3. Check the voltage between integral switch harness connector terminals as per the following condition.

	Integral switch				
Terminals		Condition		Voltage	
Connector	(+)	(-)	Condition		Voltage (Approx.)
	Terr	ninal			
M3	32	31	Multifunction	Rotate	2.0 - 4.3 V
IVIS	37	31	switch	Notate	2.0 - 4.3 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace multifunction switch. Refer to <u>AV-411, "Removal and Installation"</u>.

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FRONT CAMERA COMMUNICATION SIGNAL CIRCUIT DIAGNOSIS > [AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

FRONT CAMERA COMMUNICATION SIGNAL CIRCUIT

Description INFOID:0000000012795825

 Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the display control unit.

- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the display control unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

Component Function Check

INFOID:0000000012795826

1. CHECK FRONT CAMERA COMMUNICATION STATUS

®WITH CONSULT

- 1. Turn ignition switch ON.
- Select "F-CAMERA COMM STATUS" in "DATA MONITOR" mode of "AVM" using CONSULT.
- 3. Check "F-CAMERA COMM STATUS" indication as per the following condition.

Monitor item	Condition	Indication
F-CAMERA COMM STATUS	Front camera image is displayed	ОК

NOTE:

Refer to AV-441, "System Description" for around view monitor operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Proceed to AV-606, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012795827

1. CHECK COMMUNICATION SIGNAL

- 1. Turn ignition switch ON.
- 2. Check the signal between around view monitor control unit harness connector and ground.

	Terminals			
(-	+)			
	nonitor control nit	(–)	Condition	Reference value
Connector	Terminal			
B51	67	Ground	"CAMERA" switch is ON or shift position is "R".	(V) 5 4 3 2 1 0 JSNIA0836GB

Is the inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

NO >> GO TO 2.

2.CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- 2. Disconnect around view monitor control unit harness connector and front camera harness connector.
- Check the continuity between around view monitor control unit harness connector and front camera harness connector.

FRONT CAMERA COMMUNICATION SIGNAL CIRCUIT DIAGNOSIS > [AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Around view trol	monitor con- unit	Front o	camera	Continuity	
Connector	Terminal	Connector	Terminal		
B51	67	E116	6	Existed	
Is the inspe	ction result	: normal?			
	GO TO 3.	replace mal	functioning	n parts	
_	•	•	_	N SIGNAL CIRCU	JIT FOR SHORT
					t harness connector and ground.
oncok the t	oritinally 5	otwoon aro	ana view n	ionitor control and	t hamees connector and ground.
Around view					
	unit	Gro	und	Continuity	
Connector B51	Terminal 67			Not existed	
ls inspectio		10		Not existed	

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SIDE CAMERA LH COMMUNICATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

SIDE CAMERA LH COMMUNICATION SIGNAL CIRCUIT

Description INFOID:0000000012795828

 Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the front display unit.

- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the front display unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

Component Function Check

INFOID:0000000012795829

1. CHECK SIDE CAMERA LH COMMUNICATION STATUS

(P)WITH CONSULT

- 1. Turn ignition switch ON.
- Select "DR-SIDE CAMERA COMM STATUS" in "DATA MONITOR" mode of "AVM" using CONSULT.
- 3. Check "DR-SIDE CAMERA COMM STATUS" indication as per the following condition.

Monitor item	Condition	Indication
DR-SIDE CAMERA COMM STATUS	Side camera LH image is displayed	ОК

NOTE:

Refer to AV-441, "System Description" for around view monitor operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Proceed to AV-608, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012795830

1. CHECK COMMUNICATION SIGNAL

- 1. Turn ignition switch ON.
- Check the signal between around view monitor control unit harness connector and ground.

Terminals					
(+)					
Around view monitor control unit		(-)	Condition	Reference value	
Connector	Terminal				
B51	55	Ground	"CAMERA" switch is ON or shift position is "R".	(V) 5 4 3 2 1 1.0 μ s JSNIA0836GB	

Is the inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

NO >> GO TO 2.

2. CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect around view monitor control unit harness connector and door mirror (driver side) harness connector.

SIDE CAMERA LH COMMUNICATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

3. Check the continuity between around view monitor control unit harness connector and door mirror (driver side) harness connector.

With automatic drive positioner

	monitor con- unit		mirror r side)	Continuity
Connector	Terminal	Connector	Terminal	
B51	55	D56	3	Existed

Without automatic drive positioner

Around view monitor control unit		Door mirror (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
B51	55	D17	3	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

${f 3.}$ CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT FOR SHORT

Check the continuity between around view monitor control unit harness connector and ground.

	monitor con- unit		Continuity
Connector	Terminal	Ground	
B51	55		Not existed

Is the inspection result normal?

YES >> Replace side camera LH. Refer to AV-621, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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SIDE CAMERA RH COMMUNICATION SIGNAL CIRCUIT DIAGNOSIS > [AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

SIDE CAMERA RH COMMUNICATION SIGNAL CIRCUIT

Description INFOID:000000012795831

 Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the front display unit.

- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the front display unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

Component Function Check

INFOID:0000000012795832

1. CHECK SIDE CAMERA RH COMMUNICATION STATUS

(P)WITH CONSULT

- 1. Turn ignition switch ON.
- Select "PA-SIDE CAMERA COMM STATUS" in "DATA MONITOR" mode of "AVM" using CONSULT.
- 3. Check "PA-SIDE CAMERA COMM STATUS" indication as per the following condition.

Monitor item	Condition	Indication
PA-SIDE CAMERA COMM STATUS	Side camera RH image is displayed	ОК

NOTE:

Refer to AV-441, "System Description" for around view monitor operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Proceed to AV-610, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012795833

1. CHECK COMMUNICATION SIGNAL

- 1. Connect around view monitor control unit connector and door mirror (passenger side) connector.
- 2. Turn ignition switch ON.
- 3. Check the signal between around view monitor control unit harness connector and ground.

Terminals					
(+)					
Around view monitor control unit		(–)	Condition	Reference value	
Connector	Terminal				
B51	61	Ground	"CAMERA" switch is ON or shift position is "R".	(V) 5 4 3 2 1 1.0 μs JSNIA0836GB	

Is the inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

NO >> GO TO 2.

2.CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect around view monitor control unit harness connector and door mirror (passenger side) harness connector.

SIDE CAMERA RH COMMUNICATION SIGNAL CIRCUIT T DIAGNOSIS > [AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

 Check the continuity between around view monitor control unit harness connector and door mirror (passenger side) harness connector.

With automatic drive positioner

Around view monitor control unit		Door mirror (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
B51	61	D57	3	Existed

Without automatic drive positioner

Around view monitor control unit		Door mirror (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
B51	61	D3	3	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

${f 3.}$ CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT

Check the continuity between around view monitor control unit harness connector and ground.

	monitor con- unit		Continuity
Connector	Terminal	Ground	
B51	61		Not existed

Is the inspection result normal?

YES >> Replace side camera RH. Refer to AV-621, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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Revision: November 2016 **AV-611** 2016 Q50

REAR CAMERA COMMUNICATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

REAR CAMERA COMMUNICATION SIGNAL CIRCUIT

Description INFOID:0000000012795834

 Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the display control unit.

- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the display control unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

Component Function Check

INFOID:0000000012795835

1. CHECK REAR CAMERA COMMUNICATION STATUS

WITH CONSULT

- 1. Turn ignition switch ON.
- 2. Select "R-CAMERA COMM STATUS" in "DATA MONITOR" mode of "AVM" using CONSULT.
- 3. Check "R-CAMERA COMM STATUS" indication as per the following condition.

Monitor item	Condition	Indication
R-CAMERA COMM STATUS	Rear camera image is displayed	ОК

NOTE:

Refer to AV-441, "System Description" for around view monitor operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Proceed to AV-612, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012795836

1. CHECK COMMUNICATION SIGNAL

- 1. Turn ignition switch ON.
- 2. Check the signal between around view monitor control unit harness connector and ground.

Terminals				
(+)		(-)	Condition	Reference value
Around view monitor control unit				
Connector	Terminal			
B51	49	Ground	"CAMERA" switch is ON or shift position is "R".	(V) 5 4 3 2 1 1.0 μ s JSNIA0836GB

Is the inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

NO >> GO TO 2.

2.CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT FOR OPEN

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

REAR CAMERA COMMUNICATION SIGNAL CIRCUIT DIAGNOSIS > [AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

	monitor con- unit	Rear camera		Continuity
Connector	Terminal	Connector	Terminal	
B51	49	T50	4	Existed

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Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

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 ${f 3.}$ CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT FOR SHORT

Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit			Continuity
Connector	Terminal	Ground	
B51	49		Not existed

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Is inspection result normal?

YES >> Replace rear camera. Refer to AV-622, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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REVERSE SIGNAL CIRCUIT

Component Function Check

INFOID:0000000012795837

1. CHECK REVERSE SIGNAL

(E)With CONSULT

- 1. Turn ignition ON.
- Select "REVERSE SIGNAL" in "DATA MONITOR" mode of "AVM" using CONSULT.
- 3. Check "REVERSE SIGNAL" indication as per the following condition.

Monitor item	Condition		Indication	
DEVEDSE SIGNAL	Soloctor lover position	R position	On	
MEVERSE SIGNAL	Selector lever position	Other than R position	Off	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Proceed to AV-614, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012795838

1. CHECK REVERSE RANGE SIGNAL

- Turn ignition switch ON.
- 2. Check the voltage between around view monitor control unit harness connector and ground as per the following condition.

Terminals				
(+)				Voltage
Around View Monitor con- trol unit		(–)	Condition	(Approx.)
Connector	Terminal			
B50	25	Ground	Shift the selector lever to R position.	12.0 V
B50 25	20	Giodila	Shift the selector lever other than R position.	0 V

Is the inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-619, "Removal and Installation".

NO >> GO TO 2.

2.CHECK REVERSE SIGNAL CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect around view monitor control unit harness connector.
- 3. Remove back-up lamp relay.
- 4. Check the continuity between around view monitor harness connector and back-up lamp relay harness connector.

Around vi	ew monitor	Back-up	amp relay	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B50	25	M97	5	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.CHECK BACK-UP LAMP POWER SUPPLY

1. Turn ignition switch ON.

REVERSE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

2. Check the voltage between back-up lamp relay harness connector and ground.

	Terminals				
(+)		Voltage		
Back-up	Back-up lamp relay		(Approx.)		
Connector	Terminal				
M97	1	Ground	Rattory voltago		
10197	3	Giouna	Battery voltage		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Check ignition power supply circuit.

4.CHECK BACK-UP LAMP RELAY

- 1. Turn ignition switch OFF.
- Check the back-up lamp relay. Refer to <u>AV-615, "Component Inspection"</u>.

Is the inspection result normal?

YES-1 >> VR30DDTT: Perform "Self Diagnostic Result" in "TRANSMISSION". Refer to <u>TM-86, "2.0L TURBO GASOLINE ENGINE : CONSULT Function"</u>.

YES-2 >> 2.0L gasoline engine: Perform "Self Diagnostic Result" in "ENGINE". Refer to <u>EC4-101, "CON-SULT Function"</u>.

NO >> Replace back-up lamp relay.

Component Inspection

1. CHECK BACK-UP LAMP RELAY

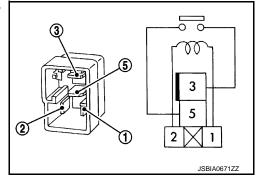
- 1. Turn ignition switch OFF.
- 2. Remove back-up lamp relay.
- 3. Check the continuity between back-up lamp relay terminals as per the following condition.

Back-up lamp relay		Condition	Continuity
Terminal		Condition	Continuity
3	3 5	12 V direct current supply between terminals 1 and 2	Existed
		No current supply	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back-up lamp relay.



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SYMPTOM DIAGNOSIS

AROUND VIEW MONITOR SYSTEM

Symptom Table

AROUND VIEW MONITOR SYSTEM

Symptoms	Check	items	Probable malfunction location
Screen is not switched to camera image, when camera switch is	"AVM" is not displayed on the CONSULT.	Around view monitor control of power supply circuit BAT power supply circuit Ignition power supply circuit ACC power supply circuit	
pressed and when shift position is shifted to the reverse position.	Check that the following data monitor items operate nor-	Camera switch signal and reverse signal are normal	Around view monitor control unit
	mally using CONSULT • Camera switch signal • Reverse signal	Camera switch signal or reverse signal is not normal	AV communication circuit
Screen is switched when pressing camera switch or shifting selector lever to the reverse	Only superimposing is display trol unit plots are displayed).	ed (only images that AV con-	Camera image signal circuit Refer to AV-601, "Diagnosis Procedure".
position, however, all views are not displayed.	Superimposing is not displaye	d.	Display control unit Refer to AV-96, "CONSULT Function"
The screen is not switched to the rear view image even if the selector is shifted to the reverse position.	The front view is displayed no	rmally.	Reverse signal circuit. Refer to AV-614, "Diagnosis Procedure".
Front view screen is not displayed.	Check the following data monitor items using CON-SULT. • Front camera image signal	Image signal: NG Communication status: NG Communication line: NG	Front camera power supply circuit and image signal circuit Refer to AV-585, "Diagnosis Procedure".
Front of top view screen is displayed.	Front view camera communication status Front camera communication line	Image signal: OK Communication status: NG Communication line: NG	Front camera communication circuit Refer to AV-606, "Diagnosis Procedure".
The rear view screen is not displayed.	Check the following data monitor items using CON-SULT. Rear camera image signal	Image signal: NG Communication status: NG Communication line: NG	Rear camera power supply circuit and image signal circuit Refer to AV-579, "Diagnosis Procedure".
 Rear of top view screen is not displayed. 	Rear camera communication status Rear camera communication line	Image signal: OK Communication status: NG Communication line: NG	Rear camera communication signal circuit Refer to AV-612, "Diagnosis Procedure".
 The side view screen is not displayed. Left side of top view screen is not displayed. 	Check the following data monitor items using CON-SULT. • Side camera LH image sig-	Image signal: NG Communication status: NG Communication line: NG	Side camera LH power supply circuit and image signal circuit Refer to AV-588. "Diagnosis Procedure".
	nal Side camera LH communication status Side camera LH communication line	Image signal: OK Communication status: NG Communication line: NG	Side camera LH communication circuit Refer to AV-608, "Diagnosis Procedure".

AROUND VIEW MONITOR SYSTEM

< SYMPTOM DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

Symptoms	Check items		Probable malfunction location
Right side of top view image is	Check the following data monitor items using CON-SULT. • Side camera RH image	Image signal: NG Communication status: NG Communication line: NG	Side camera RH power supply circuit and image signal circuit. Refer to AV-582, "Diagnosis Procedure".
not displayed.	 signal Side camera RH communication status Side camera RH communication line 	Image signal: OK Communication status: NG Communication line: NG	Side camera RH communication circuit. Refer to AV-610, "Diagnosis Procedure".

CAMERA ASSISTANCE SONAR

Symptoms	Check items	Possible malfunction location/Action to take
	Only 1 indicator is not displayed normally (always displayed in red).	Corner sensor or center sensor of applicable position is not normal. Corner sensor or center sensor harness circuit of applicable position Perform self-diagnosis of "SONAR" using CONSULT. Refer to AV-465, "CONSULT Function".
Sonar indicator is not displayed normally (always displayed in red).	Display of all 8 indicators is not normal (always displayed in red).	Corner sensor or center sensor ground circuit Perform self-diagnosis of "SONAR" using CONSULT. Refer to AV-465. "CONSULT Function". Sonar control unit power supply and ground circuit. Refer to AV-600. "SONAR CONTROL UNIT: Diagnosis Procedure". AV communication circuit. Perform self-diagnosis of "MULTI AV" using CONSULT. Refer to AV-96, "CONSULT Function".

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NORMAL OPERATING CONDITION

Description INFOID:000000012795841

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 "☀/ノー" 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 SONAR

Symptom	Possible cause		
Unstable object detection	 The vehicle is on a rough surface, such as stone or gravel. When used in poor weather conditions, such as heavy snow/rain or strong wind. When subjected to an ultrasonic noise generated from exhaust muffler or brakes. When left standing in the hot sun or in a cold climate. When the surface of the sensor is frozen or covered with snow/dirt/moisture. When a retrofitted xenon lamp, lighted license plate, or harness is close to the sensor body or sensor harness. When subjected to loop coil noises generated from a vehicle detector placed at an intersection or coin parking area. 		
Object undetectable	 Air-containing objects, such as cloth, cotton, glass wool, dust, and snow. Thin objects, such as rope, chain, and wire. Smooth-faced objects placed in a slanting direction. Fast-moving small animals. A corner of an angular object. NOTE: If the sensor detection part is scratched, obstacles cannot be detected. 		

AROUND VIEW MONITOR CONTROL UNIT

< REMOVAL AND INSTALLATION >

[AROUND VIEW MONITOR SYSTEM]

REMOVAL AND INSTALLATION

AROUND VIEW MONITOR CONTROL UNIT

Removal and Installation

INFOID:0000000012795842

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REMOVAL

CAUTION:

Before replacing around view monitor control unit, perform "Read/Write Configuration" to save or print current vehicle specification. For details, refer to AV-534, "Description".

- 1. Remove the trunk front finisher. Refer to INT-53, "TRUNK FRONT FINISHER: Removal and Installation".
- Remove the rear parcel shelf finisher. Refer to INT-37, "Removal and Installation".
- 3. Remove the around view monitor control unit mounting bolts.
- 4. Disconnect the connectors to remove the around view monitor control unit from the rear parcel shelf (trunk room side).

INSTALLATION

- Installation is the reverse order of removal.
- 2. Perform camera image calibration. Refer to AV-539, "Work Procedure".
- Perform predictive course line center position adjustment. Refer to AV-538, "Work Procedure".

CAUTION:

- Be sure to perform "Read/Write Configuration" when replacing around view monitor control unit. For details, refer to <u>AV-536, "Work Procedure"</u>.
- Perform the calibration and perform the writing to the around view monitor control unit when removing and replacing each camera, removing the camera mounting parts (front grille, door mirror, etc.) and replacing the around view monitor control unit.

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FRONT CAMERA

< REMOVAL AND INSTALLATION >

[AROUND VIEW MONITOR SYSTEM]

FRONT CAMERA

Removal and Installation

INFOID:0000000012795843

REMOVAL

- Remove front bumper fascia assembly. Refer to <u>EXT-15</u>, "Removal and Installation".
- 2. Dissconnect the front camera harness connector.
- 3. Remove the front grill.
- 4. Remove the front camera mounting screws, then remove front camera.

INSTALLATION

- 1. Install in the reverse order of removal.
- Perform camera image calibration. Refer to <u>AV-539</u>, "Work <u>Procedure"</u>.
 CAUTION:

Perform the calibration and perform the writing to the around view monitor control unit when removing and replacing each camera, removing the camera mounting parts (front grille, door mirror, etc.) and replacing the around view monitor control unit.

SIDE CAMERA

< REMOVAL AND INSTALLATION >

[AROUND VIEW MONITOR SYSTEM]

SIDE CAMERA

Removal and Installation

INFOID:0000000012795844

REMOVAL

Remove the side camera. Refer to Refer to MIR-51, "DOOR MIRROR: Disassembly and Assembly" (WITH ADP), or MIR-77, "DOOR MIRROR: Disassembly and Assembly" (WITHOUT ADP).

INSTALLATION

- 1. Install in the reverse order of removal.
- 2. Perform camera image calibration. Refer to <u>AV-539, "Work Procedure"</u>.

CAUTION:

Perform the calibration and perform the writing to the around view monitor control unit when removing and replacing each camera, removing the camera mounting parts (front grille, door mirror, etc.) and replacing the around view monitor control unit.

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REAR CAMERA

< REMOVAL AND INSTALLATION >

[AROUND VIEW MONITOR SYSTEM]

REAR CAMERA

Removal and Installation

INFOID:0000000012795845

REMOVAL

- 1. Remove the trunk lid finisher outer. Refer to EXT-58, "TRUNK LID FINISHER: Removal and Installation".
- 2. Remove the rear camera mounting screws, then remove rear camera.

INSTALLATION

- 1. Install in the reverse order of removal.
- 2. Perform camera image calibration. Refer to AV-539, "Work Procedure".

CAUTION:

Perform the calibration and perform the writing to the around view monitor control unit when removing and replacing each camera, removing the camera mounting parts (front grille, door mirror, etc.) and replacing the around view monitor control unit.

SONAR CONTROL UNIT

< REMOVAL AND INSTALLATION >

[AROUND VIEW MONITOR SYSTEM]

SONAR CONTROL UNIT

Removal and Installation

INFOID:0000000012795846

REMOVAL

CAUTION:

Before replacing sonar control unit, perform "Read/Write Configuration" to save or print current vehicle specification. For details, refer to AV-535, "Description".

- Remove the instrument lower panel RH. Refer to <u>IP-13, "Removal and Installation"</u>.
- 2. Remove screws and connector, and then remove sonar control unit.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to perform "Read/Write Configuration" when replacing sonar control unit. For details, refer to AV-537, "Work Procedure".

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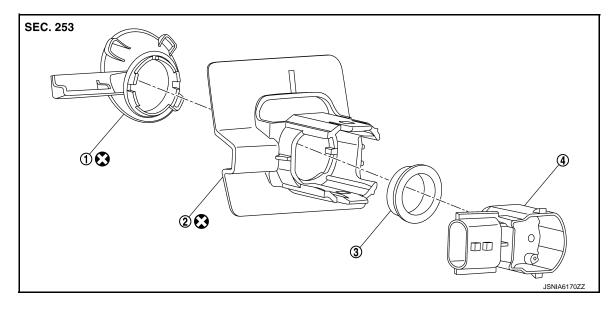
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SONAR SENSOR FRONT CENTER SENSOR

FRONT CENTER SENSOR: Exploded View

INFOID:0000000012795847



(1) Sensor finisher

(2) Sensor holder

(3) Sensor vibration proof rubber

- (4) Sonar sensor
- :Always replace after every disassembly.

FRONT CENTER SENSOR: Removal and Installation

INFOID:0000000012795848

REMOVAL

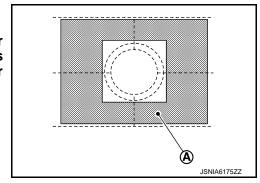
- 1. Remove front bumper fascia assembly. Refer to EXT-15, "Removal and Installation".
- 2. Disconnect sensor connector.
- Unhook the pawl to remove sonar sensor and sensor vibration proof rubber with these in assembled condition.
- 4. Remove sensor vibration proof rubber from sonar sensor.

INSTALLATION

NOTE:

For the method of punching a hole in bumper, refer to EXT-15, "Removal and Installation".

Never apply two coats of primer. Applying two coats or more of primer results in excessively thick film and this may allow the sensor holder to come off from primer under exfoliation.

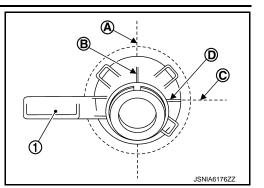


SONAR SENSOR

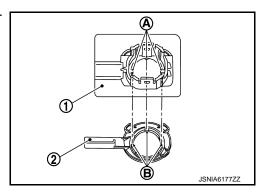
< REMOVAL AND INSTALLATION >

[AROUND VIEW MONITOR SYSTEM]

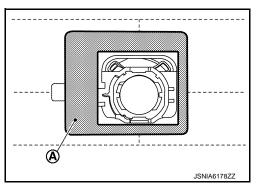
2. Remove the film of double-sided tape and align reference line (A) of the bumper side with (B) of sensor finisher, and (C) with (D) to paste sensor finisher (1) to bumper.



3. Remove the film of double-sided tape and fit portion (A) of sensor holder (1) to portion (B) of sensor finisher (2).



4. Press portion (A) of sensor holder to paste the sensor holder to bumper as shown in the figure.



- 5. Install sensor vibration proof rubber to sonar sensor and install this to sensor holder.
- 6. Connect the connector to sonar sensor.
- 7. Install front bumper fascia assembly. Refer to EXT-15, "Removal and Installation".

CORNER SENSOR AND REAR CENTER SENSOR

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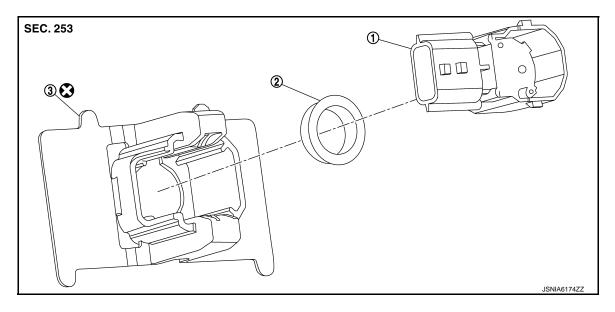
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CORNER SENSOR AND REAR CENTER SENSOR : Exploded View

INFOID:0000000012795849



(1) Sonar sensor

- Sensor vibration proof rubber
- Sensor holder

:Always replace after every disassembly.

CORNER SENSOR AND REAR CENTER SENSOR: Removal and Installation

INFOID:0000000012795850

REMOVAL

- 1. Remove front bumper fascia assembly, or rear bumper fascia assembly. Refer to EXT-15, "Removal and Installation" (front bumper fascia assembly), or EXT-22, "Removal and Installation" (rear bumper fascia assembly).
- Disconnect sonar sensor connector.
- 3. Unhook the pawl to remove sonar sensor and sensor vibration proof rubber with these in assembled condition.
- Remove sensor vibration proof rubber from sonar sensor.

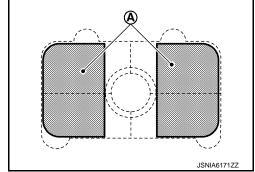
INSTALLATION

NOTE:

For the method of punching a hole in bumper, refer to <u>EXT-15</u>, "Removal and Installation" (front bumper), or <u>EXT-22</u>, "Removal and Installation" (rear bumper).

- Install sonar sensor and sensor vibration proof rubber to sensor holder.
- Apply primer to sensor mounting part (A) of bumper. CAUTION:

Never apply two coats of primer. Applying two coats or more of primer results in excessively thick film and this may allow the sensor holder to come off from primer under exfoliation.

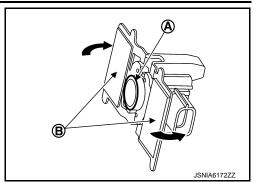


SONAR SENSOR

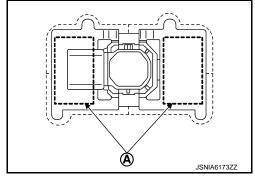
< REMOVAL AND INSTALLATION >

[AROUND VIEW MONITOR SYSTEM]

3. Remove the film of double-sided tape, bend sensor holder in the direction shown by arrow so that double-sided tape (B) does not contact bumper, and align portion (A) of sonar sensor with the bumper hole.



4. Press portion (A) of sensor holder to paste the sensor holder to bumper as shown in the figure.



- 5. Install connector to sonar sensor.
- 6. Install front bumper fascia assembly, or rear bumper fascia assembly. Refer to EXT-15, "Removal and Installation" (front bumper fascia assembly), or EXT-22, "Removal and Installation" (rear bumper fascia assembly).

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BUZZER

[AROUND VIEW MONITOR SYSTEM]

BUZZER

Removal and Installation

INFOID:0000000012795851

REMOVAL

- 1. Remove instrument lower panel LH. Refer to IP-13, "Removal and Installation".
- 2. Remove the buzzer mounting screws.
- 3. Disconnect the connector to remove the buzzer from the instrument lower panel LH.

INSTALLATION

Install in the reverse order of removal.

STEERING ANGLE SENSOR

< REMOVAL AND INSTALLATION >

[AROUND VIEW MONITOR SYSTEM]

STEERING ANGLE SENSOR

Removal and Installation

INFOID:0000000012795852

REMOVAL

- 1. Remove the spiral cable. Refer to SR-22, "Removal and Installation".
- 2. Remove the steering angle sensor from spiral cable.

INSTALLATION

Install in the reverse order of removal.

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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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "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 or batteries, and wait at least 3 minutes before performing any service.

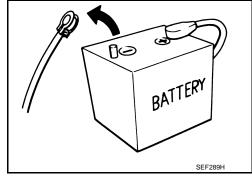
Precautions for Removing Battery Terminal

INFOID:0000000013498208

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE : 4 minutes V9X engine : 4 minutes : 20 minutes YD25DDTi D4D engine : 2 minutes YS23DDT HR09DET : 12 minutes : 4 minutes HRA2DDT : 12 minutes YS23DDTT : 4 minutes K9K engine : 4 minutes ZD30DDTi : 60 seconds : 60 seconds M9R engine : 4 minutes ZD30DDTT R9M engine : 4 minutes



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.

 After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.
 NOTE:

PRECAUTIONS

< PRECAUTION >

[REAR VIEW MONITOR SYSTEM]

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
- Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
- Driving for 30 minutes or more on a steep slope.
- 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.

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.

Precaution for Trouble Diagnosis

INFOID:0000000012795855

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AV COMMUNICATION SYSTEM

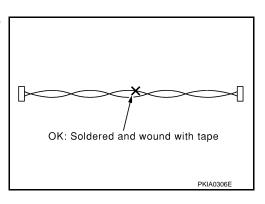
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

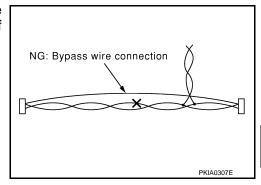
INFOID:0000000012795856

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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[REAR VIEW MONITOR SYSTEM]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000012795857

	Tool	Description
Power tool	PBICO191E	Loosening screws

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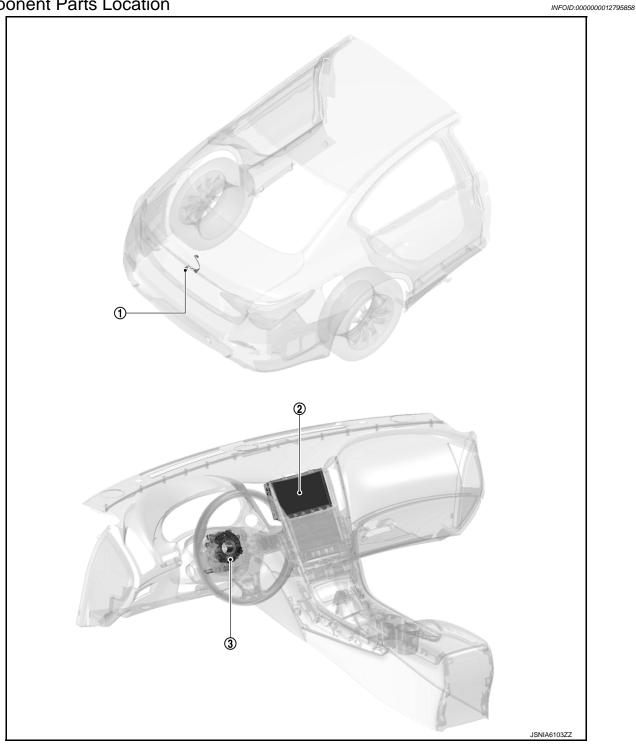
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



No.	Component	Function
1	Rear view camera	Refer to AV-634, "Rear View Camera".
2	Display control unit	Refer to AV-634, "Display Control Unit".
3	Steering angle sensor	Refer to AV-634, "Steering Angle Sensor".

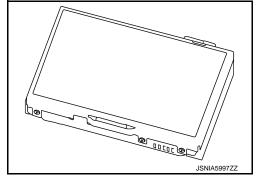
Display Control Unit

INFOID:0000000012795859

DESCRIPTION

- Display control unit is located in the center of the instrument panel assembly.
- Display control unit integrates the following functions, and controls the rear view monitor system.

	Unit equipped	
Display		
Camera controller		



SPECIFICATION

Camera controller	Guideline display function	Vehicle width guide lines
	Guideline display function	Predictive course lines
	Steering signal input method	CAN communication

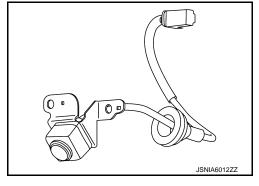
Rear View Camera

INFOID:0000000012795860

- The rear view camera is installed at the center of the trunk lid finisher.
- Super-small CCD camera (color) using CCD* for the image pickup element is adopted.
- With the mirror processing function, a mirror image is sent as if it is viewed by a rear view mirror.
- Power for the camera is supplied from the display control unit, and the image at the rear of the vehicle is sent to the display control unit.

NOTE:

*: Abbreviation of Charge Coupled Device. CCD can turn incident light from the lens into electrons and memorize the image like a photo.



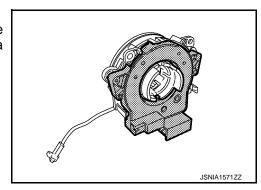
Specification

Image pickup element	1/4-inch interline CCD color	
Effective number of pixels	Approx. 250,000 pixels (504 × 485)	
Minimum brightness	1 lx	
Angle of view	H: 130.5° V: 92°	
Image	With the mirror processing function	

Steering Angle Sensor

INFOID:0000000012795861

- Steering angle sensor is installed to the spiral cable.
- Steering angle sends the steering signal necessary for predictive course line of the rear view monitor to the display control unit via CAN communication.



REAR VIEW MONITOR SYSTEM

System Description

INFOID:0000000012795862

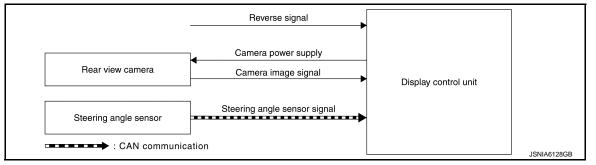
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SYSTEM DIAGRAM



Display Control Unit Input Signal (CAN Communication)

Transmit unit	Signal name
Steering angle sensor	Steering angle signal

DESCRIPTION

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Operation Description

- When the selector lever is shifted to the reverse position, the rear view monitor image is displayed.
- When the selector lever is shifted to any position other than the reverse position, the original image (the image displayed before the rear view monitor image) is displayed.

Camera Image Operation Principle

- The display control unit that receives the reverse signal input supplies power to the rear view camera and gives input of image signal.
- The display control unit outputs the rear view camera image to the display when the reverse signal is inputted.
- The display control unit generates the warning message, vehicle width guide lines and the predicted course lines on the image from the rear view camera, and transmits the rear view camera image signal to the front display unit.

Vehicle Width Guide Lines and Predicted Course Lines Display Function at Rear View Monitor Display

- The vehicle width guide lines and the predicted course lines that indicate the vehicle route according to the steering angle are displayed at the rear view monitor display to allow the driver to more easily judge distances between the vehicle and objects and help the driver back into a parking space.
- The display control unit receives the steering signal from the steering sensor via CAN communication and draws a vehicle width guide line according to the steering angle.
- When the vehicle width guide lines are displayed, the vehicle width guide lines are displayed translucently.

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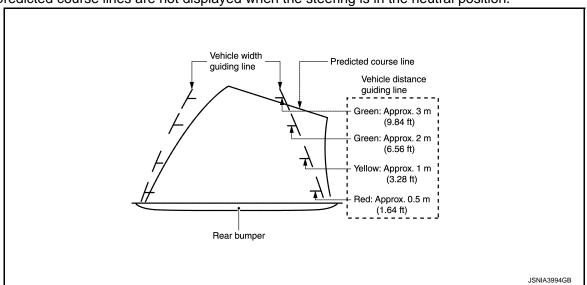
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• The predicted course lines are not displayed when the steering is in the neutral position.



Precautions for Vehicle Width Guide Lines and Predicted Course Lines Display on the Rear View Monitor Display Vehicle width guide lines and predicted course lines on the display may be different from actual lines depending on vehicle conditions and road conditions.

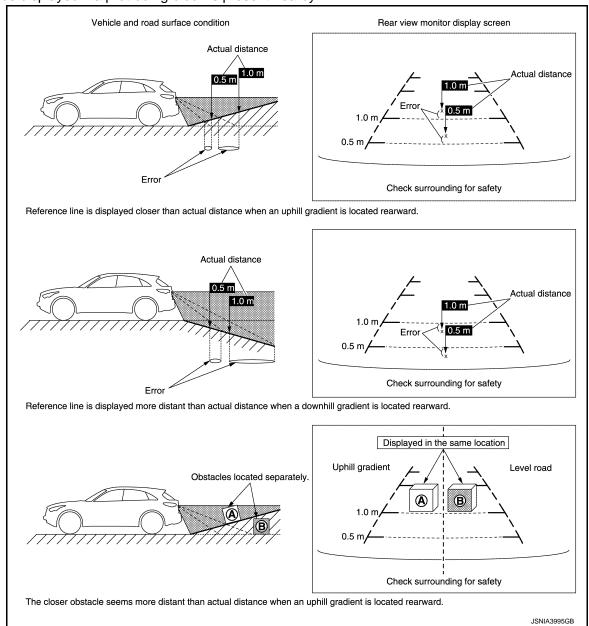
Precautions for road conditions

REAR VIEW MONITOR SYSTEM

< SYSTEM DESCRIPTION >

[REAR VIEW MONITOR SYSTEM]

• Since vehicle width guide lines and predicted course lines are drawn based on the road, a different distance may be displayed if a protruding block is present nearby.



Precautions for block

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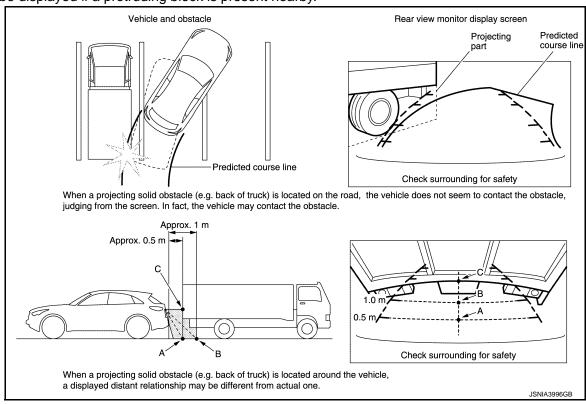
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REAR VIEW MONITOR SYSTEM

< SYSTEM DESCRIPTION >

[REAR VIEW MONITOR SYSTEM]

• Since vehicle width guide lines and predicted course lines are drawn based on the road, a different distance may be displayed if a protruding block is present nearby.



Circuit Diagram

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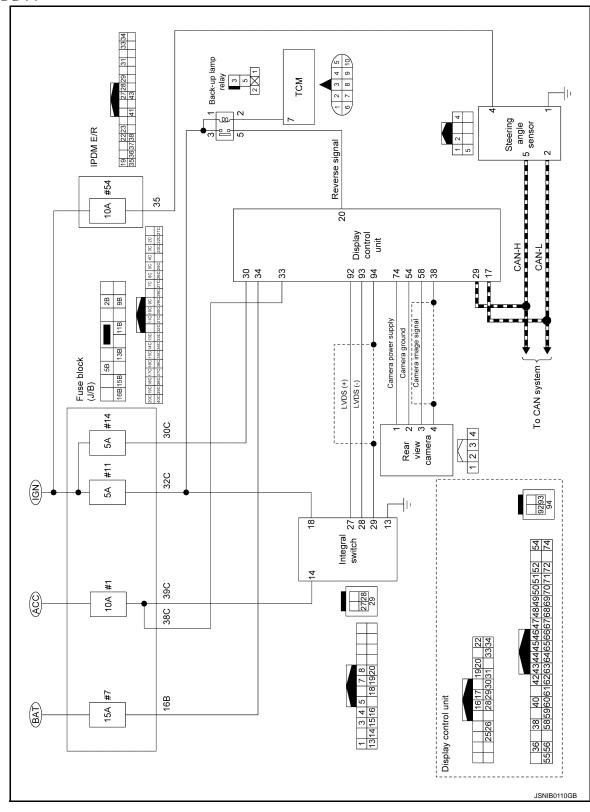
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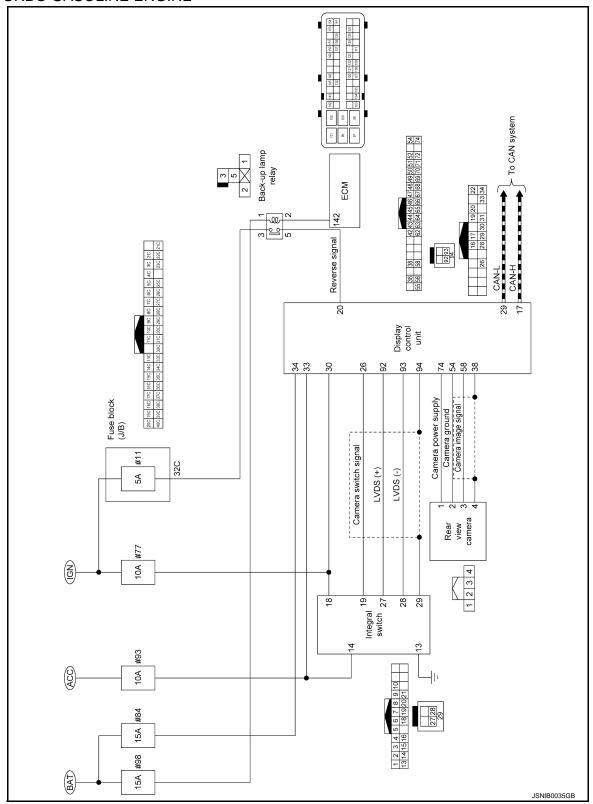
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2.0L TURBO GASOLINE ENGINE



HANDLING PRECAUTION

Display INFOID:0000000012795864

- When the compartment temperature is low, the display images may look slower because the LCD response is deteriorated. The system will recover its normal operation when the cabin temperature increases to an appropriate level.
- When the compartment temperature is low [0°C (32°F) or less], the display images may look slower. It is characteristic of the LCD monitor and should not be considered to be a malfunction. When the temperature is at the operating temperature [0°C (32°F) to 50°C (122°F)], the display returns to normal.
- There may be small dark or bright dots in the screen or remaining display content may be found (image lag). These are inherent symptoms to any LCD monitor and should not be considered to be a malfunction.
- The image may look bright or dark when viewed obliquely from the rear. It is inherent to any LCD monitor and should not be considered to be a malfunction.
- Do not apply pressure on the LCD monitor. Doing so may cause irregularities in the screen image or render it inoperative.
- Do not use hard cloth, organic solvent (alcohol, benzine, and thinner), or chemical wipe to clean the LCD monitor. Doing so may affect the panel surface. When cleaning the LCD monitor, always wipe it with a soft cloth after shutting off the power. For severe contamination, use a soft cloth dampened with mild detergent (no droplets can be present).

Rear View Monitor INFOID:0000000012795865

- Since the range shown on the rear view monitor is limited, be sure to check safety visually around the area. Never drive while viewing only the image. It must be used only as a supplementary measure to gain field of view at the back of the vehicle.
- Since the rear view camera is using a wide lens, distance of the image shown on the display is different from the actual distance.
- Since the rear view camera is a precision device, do not apply a strong impact to it. Doing so may cause a malfunction, fire or electric shock.
- Raindrop, snow, mud, body wax, etc. on the lens may give poor image. Damage to the lens may adversely affect the image.
- Do not use hard cloth, organic solvent (alcohol, benzine, and thinner), or chemical wipe to clean the lens. Doing so may cause discoloration. When cleaning the lens, always wipe it with a dry soft cloth. For severe contamination, use a soft cloth dampened with mild detergent (no droplets can be present).
- In a high-pressure car wash, do not expose the camera directly to water. It may cause entry of water on the lens or cause condensation, resulting in a malfunction, fire or electric shock. Do not use a car wash brush on the lens.
- When it is extremely hot or cold, the image may be poor, but it should not be considered to be a malfunction.
- The image may be poor or bluish at a dark place or at night, but it should not be considered to be a malfunction. In this case, image quality may be adjusted using the image quality adjusting function.
- Flickering may appear on the screen under fluorescent light, but it should not be considered to be a malfunc-
- When the rear view monitor is used, some of the audio and hand-free phone functions can be operated.
- It may take some time to switch to the camera image or non-camera image. Image may be instantaneously disturbed before a complete image appears.
- If highly brilliant point (sun reflecting on the vehicle body) is shown on the camera, a smear or ghost inherent to CCD occur, but it should not be considered to be a malfunction.
- The back view monitor image is a mirror image with reverse left and right to suit the situation when the rear is viewed with the rear view mirror.
- Possible route lines and side distance guide lines are subject to the number of passengers, fuel level, vehicle position, road condition, road gradient, etc. There may be a difference from the actual driving route.
- If tires are replaced with a size not specified, possible route lines may not be correctly displayed.
- The possible route line center position may be misaligned. In this case, perform the correction of the neutral position according to the following procedure.
- Drive 100 m (328.1 ft) or more straight ahead at 30 km/h (19 MPH) or more.

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AV-641 Revision: November 2016 2016 Q50

< SYSTEM DESCRIPTION >

[REAR VIEW MONITOR SYSTEM]

DIAGNOSIS SYSTEM (DISPLAY CONTROL UNIT)

Description INFOID:000000013498231

 The display control unit diagnosis function starts up with multifunction switch operation and the display 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:0000000013498232

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 display control unit, connections between system components. 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	Display control unit diagnosis.Diagnoses the connections across system components.

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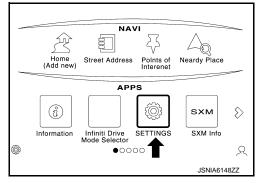
[REAR VIEW MONITOR SYSTEM]

Mode		Description
	Display Diagnosis	The following check functions are available: • Color tone check by color bar display, white display and black display • Light and shade check by gray scale display • Touch panel check • Sensor sensitivity settings
	Vehicle Signals	Diagnosis of signals can be performed .
	Speaker Test	The connection of a speaker can be confirmed by test tone.
	Navigation*	The reception status of GPS can be confirmed. Display On/Off of the simulation menu of navigation.
	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.
	AV COMM Diagnosis	The communication condition of each unit of Infiniti InTouch can be monitored.
Confirmation/	Clock Setting*	The date and time information can be adjusted.
	Camera Control Unit	The signal connected to camera control unit can be checked and the guiding line position that overlaps rear view camera image can be adjusted.
Adjustment	SXM	Display the information related to satellite radio.
	Delete Unit Connection Log	Erase the connection history of unit and error history.
	Reset Settings	Initializes the each data.
	Version Information	Version information of the following items is displayed. • Display control unit • NAVI control unit • AV control unit • BOSE amp. • Integral switch • Combination meter • Around view monitor control unit
	Program Update	Version of the display control unit can be update.
	Switch Information	Display each switch information.
	ANC/ASC	Display the information related to ANC and ASC.
	Hands-free Phone	The received volume adjustment of hands-free phone and microphone speaker check can be performed.

^{*:} Only models with navigation system

METHOD OF STARTING

- 1. Start the engine.
- 2. Turn the audio system OFF.
- 3. Touch the "SETTINGS" icon and display a settings menu screen.



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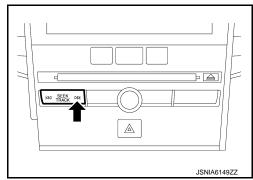
< SYSTEM DESCRIPTION >

[REAR VIEW MONITOR SYSTEM]

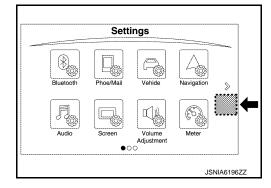
4. Press the "Seek/Track Up" switch at least 3 times. (Within 15 seconds after the settings menu screen display.)

NOTE:

When press the "Seek/Track Up" switch more than 4 times, a self-diagnosis mode is not started. press the "MENU" switch again.



5. Touch the screen (area of the figure) for 3 seconds.



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

NOTE:

When a diagnostic screen is not displayed, press the "MENU" switch. And then, restart from the procedure of Step 3.

SELF-DIAGNOSIS MODE

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

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

NOTE:

Control Unit (display control unit) and BOSE Amp. are displayed in red.

- Replace display control unit if "Self-Diagnosis did not run because of a control unit malfunction" is indicated. The symptom is display control unit internal error. Refer to AV-692, "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.

Detection Range of Self-diagnosis Mode

• The self-diagnosis mode allows the technician to diagnose the connection in the communication line between display control unit and each unit and the internal operation of the display control unit.

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[REAR VIEW MONITOR SYSTEM]

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

SELF-DIAGNOSIS RESULTS

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

Only Unit Part Is Displayed In Red.

Screen switch	Description	Possible malfunction location / Action to take
DCU	Malfunction is detected in display control unit power supply and ground circuits.	Check display control unit power supply and ground circuits. Refer to AV-684, "DISPLAY CONTROL UNIT: Diagnosis Procedure". When detecting no malfunction in those components, replace display control unit. Refer to AV-692, "Removal and Installation".
Audio Head Unit	Malfunction is detected in AV control unit power supply and ground circuits.	Check AV control unit power supply and ground circuits. Refer to AV-368, "AV CONTROL UNIT: Diagnosis Procedure". When detecting no malfunction in those components, replace AV control unit. Refer to AV-408, "Removal and Installation".
Navigation unit	Malfunction is detected in NAVI control unit power supply and ground circuits.	Check NAVI control unit power supply and ground circuits. Refer to AV-369, "NAVI CONTROL UNIT: Diagnosis Procedure". When detecting no malfunction in those components, replace NAVI control unit. Refer to AV-409, "Removal and Installation".
BOSE Amp.	 When either one of the following items are detected: Sound signal circuits between BOSE amp. and each speaker are malfunctioning. Sound signal circuits between BOSE amp. and 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-413. "Removal and Installation".

A Connecting Cable Between Units Is Displayed In Yellow.

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Area with yellow connection lines	Description	Possible malfunction location / Action to take
DCU ⇔ Audio Head Unit	 When either one of the following items are detected: AV control unit power supply and ground circuits are malfunctioning. AV communication circuits between display control unit and AV control unit are malfunctioning. USB communication circuits between display control unit and AV control unit are malfunctioning. 	AV control unit power supply and ground circuits. Refer to AV-368, "AV CONTROL UNIT: Diagnosis Procedure". AV communication circuits between display control unit and AV control unit are malfunctioning. USB communication circuits between display control unit and AV control unit are malfunctioning.
DCU ⇔ Second Display	 When either one of the following items are detected: Integral switch power supply and ground circuits are malfunctioning. AV communication circuits between display control unit and integral switch are malfunctioning. 	Integral switch power supply and ground circuits. Refer to AV-372, "INTEGRAL SWITCH: Diagnosis Procedure". AV communication circuits between display control unit and integral switch are malfunctioning.
DCU ⇔ BOSE Amp	 When either one of the following items are detected: BOSE amp. power supply and ground circuits are malfunctioning. AV communication circuits between display control unit and BOSE amp. are malfunctioning. 	BOSE amp. power supply and ground circuits. Refer to AV-371, "BOSE AMP.: Diagnosis Procedure". AV communication circuits between display control unit and BOSE amp. are malfunctioning.
DCU ⇔ AVM	 When either one of the following items are detected: Around view monitor control unit power supply and ground circuits are malfunctioning. AV communication circuits between display control unit and around view monitor control unit are malfunctioning. 	 Around view monitor control unit power supply and ground circuits. Refer to <u>AV-599</u>, "AROUND VIEW MONITOR CONTROL UNIT: Diagnosis Procedure". AV communication circuits between display control unit and around view monitor control unit are malfunctioning.
DCU ⇔ Meter	 When either one of the following items are detected: Combination meter power supply and ground circuits are malfunctioning. AV communication circuits between display control unit and combination meter are malfunctioning. 	Combination meter power supply and ground circuits. Refer to MWI-120, "COMBINATION METER: Diagnosis Procedure". AV communication circuits between display control unit and combination meter are malfunctioning.
DCU ⇔ Rear Camera	Malfunction is detected in rear view camera circuit between display control unit and rear view camera.	Rear view camera power supply and ground circuits. Refer to AV-332, "Diagnosis Procedure".
Navigation unit ⇔ GPS Antenna	GPS antenna connection malfunctions detected.	GPS antenna Refer to AV-317, "Diagnosis Procedure".
Audio Head Unit ⇔ XM Antenna	Satellite antenna connection malfunctions detected.	Satellite antenna Refer to AV-321, "Diagnosis Procedure".
Audio Head Unit ⇔ Radio Antenna	Window antenna connection malfunctions detected.	Window antenna Refer to <u>AV-336, "Diagnosis Procedure"</u> .
Second Display ⇔ IT-Commander	Multifunction switch connection malfunctions detected.	Multifunction switch Refer to AV-334, "Diagnosis Procedure".
DCU ⇔ Navigation unit	USB communication circuits between display control unit and NAVI control unit are malfunctioning.	USB communication circuits between display control unit and NAVI control unit are malfunctioning. Refer to AV-327, "Diagnosis Procedure".
DCU ⇔ TCU	USB communication circuits between display control unit and TCU are malfunctioning.	USB communication circuits between display control unit and TCU are malfunctioning. Refer to AV-328, "Diagnosis Procedure".

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CONFIRMATION/ADJUSTMENT MODE

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

Display Diagnosis

Confirmation of the display control unit screen and integral switch screen.

Item		Description
Display Settings	Color Spectrum Bar	Display 8 colors of following bars. White Yellow Cyan (Close to light blue) Green Magenta (Close to purplish red) Red Blue Black Gray Scale
	Gradation Bar	Display 64 gradation gray-scale image to a screen.
	White Display	Display white screen.
	Black Display	Display black screen.
Touch Panel		 The function can check the presence of a "+" indication and deviation from where it should be while touching the touch panel. Display coordinates and gesture operation name (Drag, Tap, Double Tap, Spread, etc.) of the screen which touched.
Sensor Sensitivity Settings		Display a current touch panel sensor sensitivity set value. Can change the touch panel sensor sensitivity set value with 1 (Low) - 5 (high) phases. NOTE: The set value is the same as display control unit screen and integral switch screen.

Vehicle Signals

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

Display control unit

Diagnosis item	Display	Vehicle status	Remarks	
Valida Canad	ON	Vehicle speed > 0 km/h (0 MPH)		
Vehicle Speed	OFF Vehicle speed = 0 km/h (0 MPH)			
Parking Brake Signal	ON	Parking brake is applied.	Changes in indication may be delayed. This is normal	
	OFF	Parking brake is released.		
Light Signal	ON	Block the light beam from the auto light optical sensor when the light switch is ON.		
	OFF	 Either of the following conditions Lighting switch OFF. Expose the auto light optical sensor to light when the light switch is ON. 	<u>—</u>	
Ignition Signal	ON	Ignition switch ON.		
	OFF	Ignition switch in ACC position.	_	
Reverse Signal	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.		

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[REAR VIEW MONITOR SYSTEM]

NAVI control unit				
Diagnosis item	Display	Vehicle status	Remarks	
Vehicle Speed	ON	Vehicle speed > 0 km/h (0 MPH)	Changes in indication may be delayed. This is normal	
	OFF	Vehicle speed = 0 km/h (0 MPH)		
Ignition Signal	ON	Ignition switch ON.		
	OFF	Ignition switch in ACC position.	_	
Reverse Signal	ON	Shift the selector lever to "R" position.	- Changes in indication may be delayed. This is norma	
	OFF	Shift the selector lever other than "R" position.		

NOTE:

Only models with navigation system.

Speaker Test

Select "Speaker Test" to display the speaker diagnosis screen. Touch "Start" to generate a test tone in a speaker. Touch "Next" to generate a test tone in the next speaker. Touch "End" to stop the test tones.

Navigation

Item	Description	
Sensor Information	The reception status of GPS can be confirmed.	
Route Simulation	Set the display ON/OFF of the "simulation" menu of the navigation.	

NOTE:

Only models with navigation system.

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.

- Place of the error occurrence is represented by the longitude and latitude 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 up-and-down manner.

Count up method

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

Display type of occur- rence frequency	Error history display item	
Count up method	CAN communication line, control unit (CAN), AV communication line, control unit (AV)	

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	Applicable DTC	Reference
TACHO signal failure	B1F01	<u>AV-281</u>
Compensat. mic1 IN: Open	B1F0B	AV-289
Compensat. mic1 IN: Short	B1F0C	AV-289
Compensat. mic1 IN: Short to battery	B1F0D	<u>AV-289</u>

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[REAR VIEW MONITOR SYSTEM]

Error item	Applicable DTC	Reference
Compensat. mic1 IN: Short to ground	B1F0E	<u>AV-289</u>
CAN COMM CIRCUIT	U1000	<u>AV-307</u>
CONTROL UNIT (CAN)	U1010	AV-309
Control unit internal error	U121F	<u>AV-311</u>
Mismatched configuration data stored	U1223	<u>AV-312</u>
Amplifier temperature error	U1231	<u>AV-313</u>
Steer. Angle Sensor calibration	U1232	<u>AV-314</u>
Navi unit internal error	U1233	<u>AV-315</u>
Audio unit internal error	U1234	<u>AV-316</u>
Audio unit connection error	U1249	<u>AV-318</u>
GPS Antenna error	U1244	AV-317
Bose AMP connection error	U124E	<u>AV-320</u>
XM Antenna connection error : open	U1258	AV-321
XM Antenna connection error : short	01230	<u> </u>
2nd Display connection error	U1259	<u>AV-323</u>
AVM connection error	U125B	<u>AV-325</u>
Navi unit connection error	U125D	<u>AV-327</u>
TCU connection error	U1266	<u>AV-328</u>
Cluster connection error	U1267	AV-329
Confirm user connection unit	U12B7	AV-331
Rear Camera connection error	U12B8	<u>AV-332</u>
IT Comander connection error	U12BA	AV-334
Radio Antenna error : open	U12BE	A\/ 226
Radio Antenna error : short	UIZBE	<u>AV-336</u>
AV COMM CIRCUIT	U1300	<u>AV-338</u>
CONTROL UNIT (AV)	U1310	AV-340
FL-DOOR speaker OUT: open		
FL-DOOR speaker OUT: short	U1600	AV-341
FL-DOOR speaker OUT: short to ground	01000	<u>AV-341</u>
FL-DOOR speaker OUT: short to battery		
FL-DOOR woofer OUT: open		
FL-DOOR woofer OUT: short	U1601	AV-344
FL-DOOR woofer OUT: short to ground	01001	<u>AV-344</u>
FL-DOOR woofer OUT: short to battery		
FL-DOOR squawker OUT: open		
FL-DOOR squawker OUT: short	114600	A\/ 247
FL-DOOR squawker OUT: short to ground	U1602	<u>AV-347</u>
FL-DOOR squawker OUT: short to battery		
FL-PILLAR tweeter OUT: open		
FL-PILLAR tweeter OUT: short	U1603	۸۱/ ۵50
FL-PILLAR tweeter OUT: short to ground	01003	<u>AV-350</u>
FL-PILLAR tweeter OUT: short to battery		

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[REAR VIEW MONITOR SYSTEM]

Error item	Applicable DTC	Reference
FR-DOOR speaker OUT: open		
FR-DOOR speaker OUT: short	114000	AV/ 0.44
FR-DOOR speaker OUT: short to ground	U1608	<u>AV-341</u>
FR-DOOR speaker OUT: short to battery		
FR-DOOR woofer OUT: open		
FR-DOOR woofer OUT: short	114000	AV/ 244
FR-DOOR woofer OUT: short to ground	U1609	<u>AV-344</u>
FR-DOOR woofer OUT: short to battery		
FR-DOOR squawker OUT: open		
FR-DOOR squawker OUT: short	114004	A) / O 47
FR-DOOR squawker OUT: short to ground	U160A	<u>AV-347</u>
FR-DOOR squawker OUT: short to battery		
FR-PILLAR tweeter OUT: open		
FR-PILLAR tweeter OUT: short		
FR-PILLAR tweeter OUT: short to ground	U160B	<u>AV-350</u>
FR-PILLAR tweeter OUT: short to battery		
F-INST L-squawker OUT: open		
F-INST L-squawker OUT: short		<u>AV-353</u>
F-INST L-squawker OUT: short to ground	U1626	
F-INST L-squawker OUT: short to battery		
F-INST C-squawker OUT: open		
F-INST C-squawker OUT: short		<u>AV-356</u>
F-INST C-squawker OUT: short to ground	U162A	
F-INST C-squawker OUT: short to battery		
F-INST R-squawker OUT: open		
F-INST R-squawker OUT: short		
F-INST R-squawker OUT: short to ground	U162E	<u>AV-353</u>
F-INST R-squawker OUT: short to battery		
RL-DOOR speaker OUT: open		
RL-DOOR speaker OUT: short		
RL-DOOR speaker OUT: short to ground	U1708	<u>AV-358</u>
RL-DOOR speaker OUT: short		
RR-DOOR speaker OUT: open		
RR-DOOR speaker OUT: short		
RR-DOOR speaker OUT: short to ground	U1710	<u>AV-358</u>
RR-DOOR speaker OUT: short to battery		
R-PSHELF L-speaker OUT: open		
R-PSHELF L-speaker OUT: short		
R-PSHELF L-speaker OUT: short to ground	U1722	<u>AV-362</u>
R-PSHELF L-speaker OUT: short to battery		
R-PSHELF C-woofer OUT: open		
R-PSHELF C-woofer OUT: short		
R-PSHELF C-woofer OUT: short to ground	U1725	<u>AV-365</u>
R-PSHELF C-woofer OUT: short to battery		

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[REAR VIEW MONITOR SYSTEM]

Error item	Applicable DTC	Reference
R-PSHELF R-speaker OUT: open		
R-PSHELF R-speaker OUT: short	U172A	AV-362
R-PSHELF R-speaker OUT: short to ground	OTIZA	<u>AV-302</u>
R-PSHELF R-speaker OUT: short to battery		

AV COMM Diagnosis

AV COMM Monitor

- Displays the communication status between display 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)
CMF Send Switch	OK / UNKW	OK / 0 - 39 / —
CMF Receive 2ndDisp	OK / UNKW	OK / 0 - 39 / —
CMF Receive Bose AMP	OK / UNKW	OK / 0 - 39 / —
CMF Receive AVM	OK / UNKW	OK / 0 - 39 / —
CMF Receive Meter	OK / UNKW	OK / 0 - 39 / —
CMF Receive Audio	OK / UNKW	OK / 0 - 39 / —

Clock Setting

The date and time information can be adjusted.

NOTE:

Only models with navigation system.

Camera Cont.

Item	Description
Adjust Guide Line of Rear View Cam	The guiding lines in the rear view monitor can be adjusted.
Check/Change Configuration	Displays the current configuration data. NOTE: Refer to the following list for the items of the configuration adjustment function.
Reset Configuration	Initializes the camera system configuration.
Camera System Type	Sets the type of camera that is connected.

Configuration list

Setting item	Setting (Default value)		
Setting item	Direct adaptive steering models	Vehicle speed sensitive P/S models	
Predictive Course Lines	With SBW	Without SBW	
Rear Coeff. K	1.37847	1.37847	
Rear Coeff. F	0.0394	0.0394	
Rear Coeff. P1	-0.24463	-0.24463	
Rear Coeff. P2	0.07005	0.07005	
Rear Coeff. C1	-0.00608	-0.00608	
Rear Coeff. C2	-0.00001	-0.00001	
Rear Coeff. D1	130.6	130.6	
Rear Coeff. D2	-35	-35	
Car Width	1822.9	1822.9	

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Setting item	Setting (D	Setting (Default value)		
Setting item	Direct adaptive steering models	Vehicle speed sensitive P/S models		
Rear Offset	3835.175	3835.175		
Rear Height	581.589	581.589		
Rear L/R Angle	0	0		
Rear Up/Dn Angle	0	0		
Rear Roll Angle	0	0		
Bumper Rear Dist.	0	0		
Bumper Rear Ax Dist	0	0		
Max. Steering Angle	31.56	31.56		
Min. Turning Radius	1	1.47		
Wheelbase	2850	2850		
Total Length	4792	4792		
Steering Gear Ratio	0.032	0.047		
Tot.Width With Mirrors	0	0		

SMX

XM Mode Diagnosis

Item	Description
Show XM Diagnosis	Display adjustment items to test satellite radio function.
External Connection Mode	Set in external diagnostic mode.

Delete Unit Connection Log

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

Reset Settings

Item	Description
Reset User Data	Initializes the display control unit, NAVI control unit and AV control unit memory.
Reset Configuration	Initializes the configuration data.

Version Information

Version information of the each control unit and switch is displayed.

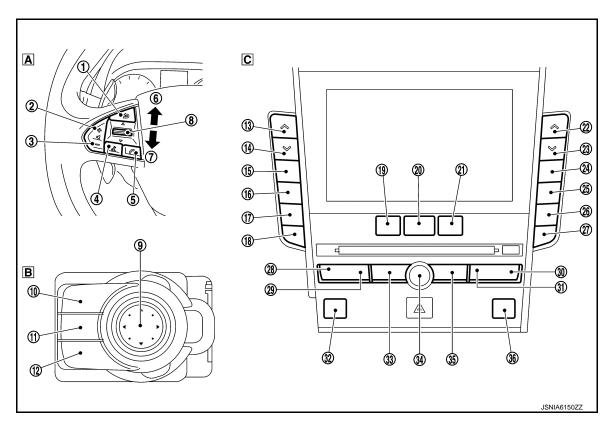
Program Update

Version of the display control unit can be update.

Switch Information

Steering switch, multifunction switch and integral switch information can be checked.

Switch name and ID are displayed when press each switch.



Α	Steering switch	В	Multifunction switch	C	Integral switch
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No.	Display name	Switch position	
1	Source		
2	VOL UP/Right		
3	VOL DOWN/Left		
4	Voice Recognition Engine:	Steering switch	
(5)	Phone	- Steering Switch	
6	MENU UP		
7	MENU DOWN		
8	Enter		
9	OK		
10	MAP	Multifunction switch	
11)	Back	- Waldianolon Switch	
12	Not displayed		

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No.	Display name	Switch position
13	Temperature	
14)	Temperature	
15	Auto	
16	Wind Speed +	
17	Wind Speed –	
18	MODE	
19	Audio	
20	Menu	
21	Climate	
22	Temperature	
23	Temperature	
24	Recirculation	lute and contab
25	Front Defrost	Integral switch
26	Rear Defrost	
27	OFF	
28	₩	
29	H	
30	TUNE/CH/HOLDER>	
31	<tune ch="" holder<="" td=""><td></td></tune>	
32	Seat Heater (Left Seat)	
33	Radio	
34	Not displayed	
35	DISC/AUX	
36	Seat Heater (Right Seat)	

ANC/ASC

Item		Description	
ANC/ASC Diagnosis	Show Settings	Following items can be confirmed. Part number Config result Active noise cancellation system ON/OFF status Active sound enhancement system ON/OFF status	
ANO/AGO Diagnosis	Connection Diagnosis	Display a state of wiring connected with in BOSE amp.	
	Active Test	Active noise cancellation system function can be confirmed by test tone.	
Version		Active noise cancellation system and active sound enhancement system function ON/OFF can be set.	

Hands-Free Phone

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

Item	Description	
HF Vol. Adjustment	The reception volume can be set in three steps: "Low", "Standard" and "High".	

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[REAR VIEW MONITOR SYSTEM]

Item	Description
Voice Microphone Test	The microphone audio can be directly connected to the speakers to perform a microphone test.
Onload model ID	Displays the on board unit ID.

CONSULT Function

INFOID:0000000013498233

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APPLICATION ITEMS

CONSULT performs the following functions via the communication with the display control unit

Diagnosis mode	Description		
Self Diagnostic Result	Performs a diagnosis on the display 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 display control unit can be performed.		
Work Support	Steering angle sensor can be adjusted.		
CU Identification The part number of display control unit can be checked.			
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing display 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 display control unit to each unit as well as the error counter.
	AUDIO	Displays the display control unit communication status and the error counter.

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.
- Refer to AV-665, "DTC Index".

Freeze Frame Data (FFD)

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

Item name	Display content
ODO/TRIP METER (km)	Total driving distance (odometer value) upon DTC detection is displayed.
TOTAL DISTANCE (km)	Total driving distance (odometer value) upon DTO detection is displayed.

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.

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

Display Item Display Vehicle status		Remarks		
VHCL SPD SIG	On	Vehicle speed > 0 km/h (0 MPH)	Changes in indication may be delayed. This is	
VIICE OF DISIG	Off	Vehicle speed = 0 km/h (0 MPH)		
PKB SIG	On	Parking brake is applied.	normal.	
- ND SIG	Off	Parking brake is released.		

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[REAR VIEW MONITOR SYSTEM]

Display Item	Display	Vehicle status	Remarks
	On	Block the light beam from the auto light optical sensor when the light switch is ON.	
ILLUM SIG	Off	Either of the following conditions • Lighting switch OFF. • Expose the auto light optical sensor to light when the light switch is ON.	
IGN SIG	On	Ignition switch ON.	
IGN 3IG	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 of than R.		normal.

WORK SUPPORT

Adjusts the neutral position of the steering angle sensor.

CAUTION:

For vehicles with VDC, adjust the steering angle sensor neutral position on the ABS actuator control unit side. Refer to BRC-91, "Description".

Item	Description	
ST ANGLE SENSOR ADJUSTMENT	NOTE: This item is displayed, but not used.	

ECU IDENTIFICATION

The part number of display control unit is displayed.

CONFIGURATION

Configuration has three functions as follows.

Function		Description	
Read/Write Configuration	Before Replace ECU	Allows the reading of vehicle specification written in display contunit to store the specification in CONSULT.	
Nead/Write Corniguration	After Replace ECU	Allows the writing of the vehicle information stored in CONSULT into the display control unit.	
Manual Configuration		Allows the writing of the vehicle specification into the display control unit by hand.	

CAUTION:

- When replacing display control unit, you must perform "Read / Write Configuration" or "Manual Configuration" with CONSULT.
- Complete the procedure of "Read / Write Configuration" or "Manual Configuration" in order.
- If you set incorrect "Read / Write Configuration" or "Manual Configuration", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.

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ECU DIAGNOSIS INFORMATION

DISPLAY CONTROL UNIT

Reference Value

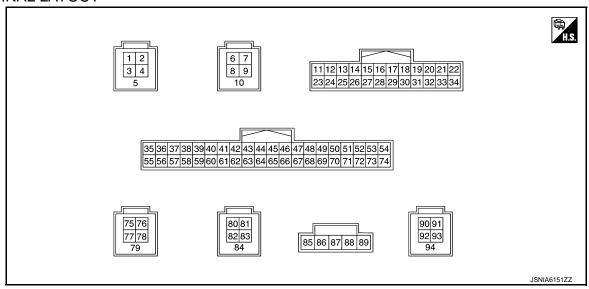
VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

Monitor Item		Condition	Value/Status
VHCL SPD SIG	Ignition switch	Vehicle speed > 0 km/h (0 MPH)	On
VHOL SPD SIG	ON	Vehicle speed = 0 km/h (0 MPH)	Off
PKB SIG	Ignition switch	Parking brake is applied.	On
PND SIG	ON	Parking brake is released.	Off
ILLUM SIG	Ignition switch	Block the light beam from the auto light optical sensor when the light switch is ON.	On
	ON	Expose the auto light optical sensor to light when the light switch is OFF or ON.	Off
IGN SIG	Ignition switch C	DN.	On
IGN SIG	Ignition switch A	CC.	Off
REV SIG	Ignition switch	Selector lever in R position.	On
	ON	Selector lever in any position other than R.	Off

TERMINAL LAYOUT



PHYSICAL VALUES

	minal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
1 (G)	_	USB ground	_	_	_
2 (W)	_	USB V BUS signal	Output	_	_

< ECU DIAGNOSIS INFORMATION >

[REAR VIEW MONITOR SYSTEM]

	ninal color)	Description		Condition	Reference value
+	-	Signal name	Input/ Output	Condition	(Approx.)
3 (R)	_	USB D- signal	Input/ Output	<u> </u>	_
4 (L)	_	USB D+ signal	Input/ Output	<u> </u>	_
5 ()	-	Shield	_	<u> </u>	_
6 (G)	-	USB ground	_	<u> </u>	_
7 (W)	-	USB V BUS signal	Output	<u> </u>	_
8 (R)		USB D- signal	Input/ Output	_	_
9 (L)	_	USB D+ signal	Input/ Output	_	_
10 (—)		Shield	_	_	_
16 (LG)	_	AV communication signal (L)	Input/ Output	_	_
17 (P)		CAN-L	Input/ Output	_	_
19 (R)	22 (B)	Dimmer signal	Input	 [Ignition switch ON] Either of the following conditions Lighting switch OFF Expose the auto light optical sensor to light when the light switch is ON. 	0 V
	(3)			 [Ignition switch ON] Block the light beam from the auto light optical sensor when the light switch is ON. 	12.0 V
20	22	Reverse signal	Input	[Ignition switch ON] • R position	12.0 V
(BR)	(B)		,	[Ignition switch ON] Other than R position	0 V
22 (B)	_	Ground	_	[Ignition switch ON]	0 V
26	22	Camera switch signal	Input	[Ignition switch ON] • Camera switch: ON	0 - 2.5 V
(BR)	(B)	Carnora Switch Signal	input	[Ignition switch ON] • Camera switch: OFF	3.0 V
28 (SB)	_	AV communication signal (H)	Input/ Output	_	_
29 (L)	_	CAN-H	Input/ Output	_	_
30 (W) ^{*1} (R) ^{*2}	22 (B)	Ignition signal	Input	[Ignition switch ON]	Battery voltage

< ECU DIAGNOSIS INFORMATION >

[REAR VIEW MONITOR SYSTEM]

Terminal (Wire color)		Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
31 (R)	22 (B)	Vehicle speed signal (8-pulse)	Input	[Ignition switch ON] • When vehicle speed is approx. 40 km/h (25 MPH)	NOTE: The maximum voltage varies depending on the specification (destination unit).
33 (SB) ^{*6} (V) ^{*7}	22 (B)	ACC power supply	Input	[Ignition switch ACC]	Battery voltage
34 (Y)	22 (B)	Battery power supply	Input	[Ignition switch OFF]	Battery voltage
36 (LG)	_	Composite image signal (-)	_	_	_
38 (—)	_	Shield	_	_	_
40 ^{*3} (—)	_	Manufacturer specific sig- nal	_	_	_
42 (G)	_	Sound signal RH (-)	_	_	_
43 (—)	_	Shield	_	_	_
44 (L)	_	Sound signal LH (-)	_	_	_
45 (W)	_	TEL voice signal (-)	_	_	_
46 (—)	_	Shield	_	_	_
47 (R)	_	Voice guidance signal output (–)	_	_	_
48 (B)	_	Voice guidance signal input (-)	_	_	_
49 (W)	_	NS ON/OFF signal	_	_	_
50 (R)	_	Microphone signal ground (With navigation)	_	[Ignition switch ON]	0 V
51 (—)	_	Shield	_	_	_
52 (—)	_	Microphone signal ground	_	[Ignition switch ON]	0 V
54 (W)	_	Camera power supply ground	_	[Ignition switch ON]	0 V
55 (—)	_	Shield	_	_	_

	minal color)	Description		O an alitican	Reference value
+	-	Signal name	Input/ Output	Condition	(Approx.)
56 (BR)	36 (LG)	Composite image signal (+)	Input	[Ignition switch ON] • Image is displayed.	(V) 0. 4 0 -0. 4 -40µs SKIB2251J
58 (B)	22 (B)	Camera image signal	Input	[Ignition switch ON] • Image is displayed.	0.4 0 -0.4 20us SKIB0827E
60 (W)	_	Sound signal (-)	_	_	_
61 (B)	60 (W)	Sound signal (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
62 (R)	42 (G)	Sound signal RH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
63 (—)	_	Shield	_	_	_
64 (V)	44 (L)	Sound signal LH (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 ** 2ms SKIB3609E
65 (B)	45 (W)	TEL voice signal (+)	Input	[Ignition switch ON] ■ During voice guide output with the	(V) 1 0 -1 2ms SKIB3609E
66 (—)	_	Shield	_	_	_

< ECU DIAGNOSIS INFORMATION >

[REAR VIEW MONITOR SYSTEM]

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	minal color)	Description		0 150	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
67 (G)	47 (R)	Voice guidance signal output (+)	Output	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
68 (W)	48 (B)	Voice guidance signal input (+)	Input	[Ignition switch ON] • Sound output	(V) 1 0 -1 + 2ms SKIB3609E
69 (—)	_	Shield	_	_	_
70 (G)	50 (R)	Microphone signal (NAVI)	Output	[Ignition switch ON] • Give a voice	(V) 2.5 2.0 1.5 1.0 0.5 0 PKIB5037J
71 (R)*4 (G)*5	52 (—)	Microphone signal	Output	[Ignition switch ON] • Give a voice	(V) 2. 5 2. 0 1. 5 1. 0 0. 5 0
72 (L)	22 (B)	Microphone VCC	Output	[Ignition switch ON]	5.0 V
74 (R)	54 (W)	Camera power supply	Output	[Ignition switch ON] • At rear view camera image is displayed	6.0 V
	(11)			[Ignition switch ON] • Except for above	0 V
77 (W)	78 (B)	LVDS (+)	Input/ Output	_	_
78 (B)	_	LVDS (–)	Input/ Output	_	_
79 (—)	_	Shield	_	_	_
80 (G)	_	USB ground	_	_	_
81 (W)	_	USB V BUS signal	Output	_	_
82 (R)	_	USB D- signal	Input/ Output	_	_

< ECU DIAGNOSIS INFORMATION >

[REAR VIEW MONITOR SYSTEM]

	minal color)	Description		Condition	Reference value	
+	_	Signal name	Input/ Output	Condition	(Approx.)	
83 (L)	_	USB D+ signal	Input/ Output	_	_	
84 (—)	_	Shield	_	_	_	
85 (R)	_	USB V BUS signal	Output	_	_	
86 (P)	_	USB D- signal	Input/ Output	_	_	
87 (W)	_	USB D+ signal	Input/ Output	_	_	
89 (Y)	_	USB ground	_	_	_	
92 (W)	_	LVDS (+)	Input/ Output	<u> </u>	_	
93 (B)	_	LVDS (-)	Input/ Output	_	_	
94	_	Shield	_	_	_	

^{*1:} For 2.0L turbo gasoline engine

Fail-Safe (Display Control Unit)

INFOID:0000000013498228

If a malfunction occurs in the Infiniti InTouch, display control unit performs fail-safe activation according to the detected malfunction.

Detection item	Infiniti InTouch operation in fail-safe mode	DTC
Engine speed signal	Active noise cancellation system and active sound enhancement system function are deactivated.	B1F01
Front microphone	Active noise cancellation function is deactivated.	B1F0B B1F0C B1F0D B1F0E
CAN communication	The system using the CAN communication signal from control unit which cannot communicate does not function.	U1000
	The system using the CAN communication signal does not function.	U1010
Display control unit	 Display is not displayed. Display control unit restart. Display control unit freezes. NOTE: Symptom other than an item may occur. 	U121F
Configuration	A function of display control unit becomes mismatched with a vehicle specification and destination.	U1223
BOSE amp.	BOSE system does not function.	U1231
Steering angle sensor	Predictive course line is not displayed.	U1232

^{*2:} For VR30 engine

^{*3:} Not used

^{*4:} With telematics system

^{*5:} Without telematics system

^{*6:} Except for VR30 engine and with ISS

^{*7:} For VR30 engine and with ISS

< ECU DIAGNOSIS INFORMATION >

[REAR VIEW MONITOR SYSTEM]

Detection item		Infiniti InTouch operation in fail-safe mode	DTC
NAVI control unit	 Map is not displayed. Navigation screen does not operate. NOTE: Symptom other than an item may occur. 		
AV control unit	 Sound is not output by a speaker. CD is not played. Radio does not operate. NOTE: Symptom other than an item may occur. 		
GPS antenna	The vehicle position	s of a navigation screen differ.	U1244
	AV control unit	 Sound is not output by a speaker. CD is not played. Radio does not operate. NOTE: Symptom other than an item may occur. 	U1249
	BOSE amp.	Sound is not output by a speaker.	U124E
AV approximation	Integral switch	 Integral switch display is not displayed. Switch operation does not operate. Touch panel operation does not operate. NOTE: Symptom other than an item may occur. 	U1259
AV communication	Around view monitor control unit	Camera image is not displayed.	U125B
	Combination meter	 Audio information is not displayed by the information display in the combination meter. Navigation indicator is not displayed by the information display in the combination meter. Steering switch does not operate. 	U1267
	Display control unit	The system of ECU which detected abnormalities does not operate.	U1300
	Display control unit	The system which is using AV communication does not operate.	U1310
Satellite radio antenna	Satellite radio is not	received.	U1258
	NAVI control unit	A navigation menu cannot be selected (hatching display).	U125D
USB communication	TCU	Telematics system does not function.	U1266
	External data input box	Audio equipment which connected to USB does not operate.	
Rear view camera	Rear camera image	is not displayed.	U12B8
Multifunction switch	Multifunction switch	operation does not operate.	U12BA
Radio antenna	Radio is not receive	d.	U12BE

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< ECU DIAGNOSIS INFORMATION >

[REAR VIEW MONITOR SYSTEM]

Detection item		Infiniti InTouch operation in fail-safe mode DTC				
		With BOSE system				
	Front door woofer	No sound from front door woofer LH or RH.	U1601 U1609			
	Front door squawk- er	No sound from front door squawker LH or RH.	U1602 U160A			
	Front door tweeter	No sound from front door tweeter LH or RH.	U1603 U160B			
	Front squawker	No sound from front squawker LH or RH.	U1626 U162E			
Speaker/squawker/tweeter/ woofer	Front center squawker	No sound from front center squawker.	U162A			
woolei	Rear door speaker	No sound from rear door speaker LH or RH.	U1708 U1710			
	Rear satellite speaker	No sound from rear satellite speaker LH or RH.	U1722 U172A			
	Rear woofer	No sound from rear woofer.	U1725			
	Without BOSE system					
	Front door speaker	No sound from front door speaker LH or RH.	U1600 U1608			
	Rear door speaker	No sound from rear door speaker LH or RH.	U1708 U1710			

DTC Inspection Priority Chart

INFOID:0000000013498229

If multiple DTCs are detected simultaneously, check them one by one depending on the following DTC inspection priority chart.

Priority	Detected items (DTC)
1	U1223: CONFIG UNFINISH
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	 B1F01: ENG SPEED SIG ERROR U1249: AUDIO H/U CONN U124E: AMP CONN U1259: 2ND DISP CONN U125B: AROUND CAMERA CONN U1267: METER CONN

< ECU DIAGNOSIS INFORMATION >

[REAR VIEW MONITOR SYSTEM]

Priority	Detected items (DTC)	_
4	U121F: DISPLAY CONTROL UNIT U1233: NAVI CONTROL UNIT U1234: AV CONTROL UNIT U1300: AV COMM CIRCUIT U1310: CONTROL UNIT(AV)	- А
	B1F0B: ANC MIC1 CIRC OPEN B1F0C: ANC MIC1 CIRC SHORT B1F0D: ANC MIC1 CIRC SHORT-BAT B1F0E: ANC MIC1 CIRC SHORT-GND H1623: STANCLE SEN CALIB	С
	 U1232: ST ANGLE SEN CALIB U1244: GPS ANTENNA CONN U1258: XM ANTENNA CONN U125D: DVD NAVI CONN 	D
	U1266: TCU CONN U12B7: USB CONN U12B8: REAR CAMERA CONN U12BA: MULTIFUNCTION SWITCH CONN	Е
5	 U12BE: RADIO ANTENA CONN U1231: AMP TEMP U1600: FL-DOOR SPEAKER 	F
	 U1601: FL-DOOR WOOFER U1602: FL-DOOR SQUAWK U1603: FL-DOOR TWEETER U1608: FR-DOOR SPEAKER 	G
	 U1609: FR-DOOR WOOFER U160A: FR-DOOR SQUAWK U160B: FR-DOOR TWEETER U1626: F-INST L-SQUAWK 	Н
	U162A: F-INST C-SQUAWK U162E: F-INST R-SQUAWK U1708: RL-DOOR SPEAKER U1710: RR-DOOR SPEAKER	I
	U1722: R-PSHELF L-SQUAWK U1725: R-PSHELF C-WOOFER U172A: R-PSHELF R-SQUAWK	J

DTC Index

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

DTC	CONSULT display	Reference
B1F01	ENG SPEED SIG ERROR	AV-281, "WITH BOSE SYSTEM: DTC Description"
B1F0B	ANC MIC1 CIRC OPEN	AV-289, "DTC Description"
B1F0C	ANC MIC1 CIRC SHORT	AV-289, "DTC Description"
B1F0D	ANC MIC1 CIRC SHORT-BAT	AV-289, "DTC Description"
B1F0E	ANC MIC1 CIRC SHORT-GND	AV-289, "DTC Description"
U1000	CAN COMM CIRCUIT	AV-307, "DISPLAY CONTROL UNIT : DTC Description"
U1010	CONTROL UNIT (CAN)	AV-309, "DISPLAY CONTROL UNIT: DTC Description"
U121F	DISPLAY CONTROL UNIT	AV-311, "DTC Description"
U1223	CONFIG UNFINISH	AV-312, "DTC Description"
U1231	AMP TEMP	AV-313, "DTC Description"
U1232	ST ANGLE SEN CALIB	AV-314, "DTC Description"
U1233	NAVI CONTROL UNIT	AV-315, "DTC Description"
U1234	AV CONTROL UNIT	AV-316, "DTC Description"

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< ECU DIAGNOSIS INFORMATION >

[REAR VIEW MONITOR SYSTEM]

DTC	CONSULT disp	lay	Reference	
U1244	GPS ANTENNA CONN		AV-317, "DTC Description"	
U1249	AUDIO H/U CONN	AUDIO H/U CONN		
U124E	AMP CONN		AV-320, "DTC Description"	
U1258	XM ANTENNA CONN	GND-SHORT OPEN	AV-321, "DTC Description"	
U1259	2ND DISP CONN		AV-323, "DTC Description"	
U125B	AROUND CAMERA CONN		AV-325, "DTC Description"	
U125D	DVD NAVI CONN		AV-327, "DTC Description"	
U1266	TCU CONN		AV-328, "DTC Description"	
U1267	METER CONN		AV-329, "DTC Description"	
U12B7	USB CONN		AV-331, "DTC Description"	
U12B8	REAR CAMERA CONN		AV-332, "DTC Description"	
U12BA	MULTIFUNCTION SWITCH CONN		AV-334, "DTC Description"	
111057	DADIO ANTENA CONT.	GND-SHORT	AV 000 "DTO 5	
U12BE	RADIO ANTENA CONN	OPEN	AV-336, "DTC Description"	
U1300	AV COMM CIRCUIT		AV-338, "DTC Description"	
U1310	CONTROL UNIT(AV)		AV-340, "DTC Description"	
		OPEN		
		SHORT	AV-341, "DTC Description	
U1600	FL-DOOR SPEAKER	GND-SHORT		
		VB-SHORT		
		OPEN	AV-344, "DTC Description	
114004	EL DOOD WOOFED	SHORT		
U1601	FL-DOOR WOOFER	GND-SHORT		
		VB-SHORT		
		OPEN		
114000	EL DOOD COLLANAIX	SHORT		
U1602	FL-DOOR SQUAWK	GND-SHORT	AV-347, "DTC Description"	
		VB-SHORT		
		OPEN		
114000	EL DOOR TWEETER	SHORT	AV/ 250 "DTO D	
U1603	FL-DOOR TWEETER	GND-SHORT	AV-350, "DTC Description"	
		VB-SHORT		
		OPEN		
114000	ED DOOD SPEAKED	SHORT	AV-341, "DTC Description"	
U1608	FR-DOOR SPEAKER	GND-SHORT		
		VB-SHORT		
		OPEN		
14000	ED DOOD WOOFE	SHORT	AV 044 IIDTO D	
U1609	FR-DOOR WOOFER	GND-SHORT	AV-344, "DTC Description"	
		VB-SHORT	-	

< ECU DIAGNOSIS INFORMATION >

[REAR VIEW MONITOR SYSTEM]

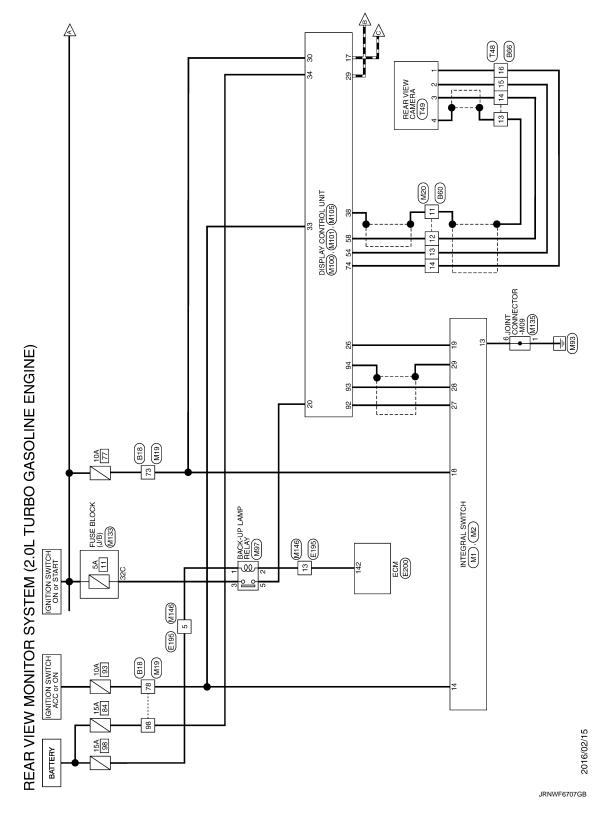
DTC	CONSULT disp	play	Reference
		OPEN	
114004	ED DOOD COLLANAIX	SHORT	AV 247 IIDTO Decembrica II
U160A	FR-DOOR SQUAWK	GND-SHORT	AV-347, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U160B	FR-DOOR TWEETER	GND-SHORT	AV-350, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U1626	F-INST L-SQUAWK	GND-SHORT	AV-353, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U162A	F-INST C-SQUAWK	GND-SHORT	AV-356, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U162E	F-INST R-SQUAWK	GND-SHORT	AV-353, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U1708	RL-DOOR SPEAKER	GND-SHORT	AV-358, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U1710	RR-DOOR SPEAKER	GND-SHORT	AV-358, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U1722	R-PSHELF L-SQUAWK	GND-SHORT	AV-362, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U1725	R-PSHELF C-WOOFER	GND-SHORT	AV-365, "DTC Description"
		VB-SHORT	
		OPEN	
		SHORT	
U172A	R-PSHELF R-SQUAWK	GND-SHORT	AV-362, "DTC Description"
		しコンコン・コート	

WIRING DIAGRAM

REAR VIEW MONITOR SYSTEM

Wiring Diagram

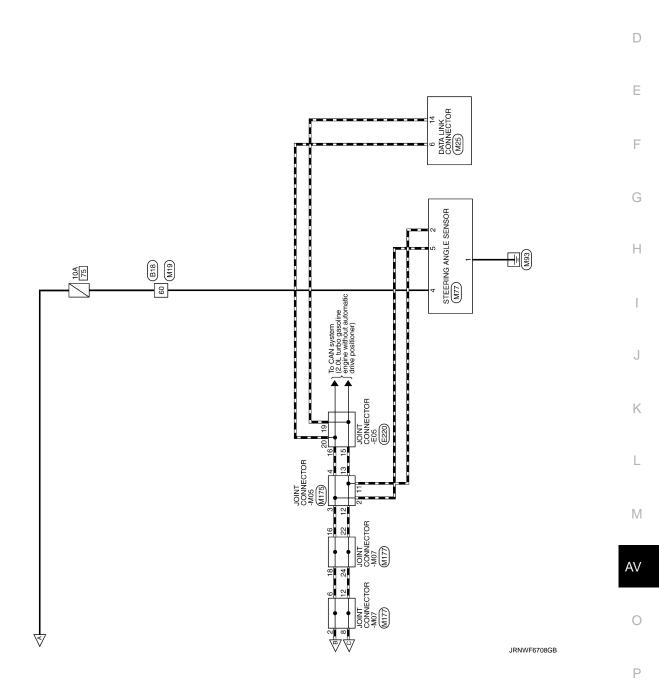
2.0L TURBO GASOLINE ENGINE



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RE.	REAR VIE	REAR VIEW MONITOR SYSTEM (2.0L TU Connector No.	URBO ∭	GASOI	(2.0L TURBO GASOLINE ENGINE)	86	BR	- [With VR30 engine and with BOSE system]	13	*	- [With around view monitor]	
Conn	Connector Name	WIRE TO WIRE	38	91 6		86	*	- [Except with VR30 engine and with BOSE system]	14	8	- [With rear view monitor]	
u u u	Connector Tyne	TH80EW-C\$16-TM4	40	+					14	5 α	- [With around view monitor]	
		1	42	╁		Connector No.	tor No.	B60	15	: ≥	- [With rear view monitor]	
E	_		43	H				CH LOSS	16	80	- [With around view monitor]	
7	¢		44	t BG		Connec	tor Name	WIRE IO WIRE	16	æ	- [With rear view monitor]	
₹	į		46	R		Connec	Connector Type	TH16FW-NH				
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			51	88 1		3			Connector No.	or No.	E195	
			35	+		Silv		/ / 	Connect	Connector Name	WIRE TO WIRE	
Į			Š	+			•	8 7 6 5 4 3 2 1				
Terminal	inal Color Of	Of Signal Name [Specification]	54	ec 0				15 14 13	Connect	Connector Type	TK36FW-NS10	
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_			63	H		12	В					
	91		ě	╀		13	*		Terminal	Color Of		
Ĭ	H		99			14	R		No.	Wire	Signal Name [Specification]	
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13	┞		72	8		Connec	Connector No.	999	6	۵	,	
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15	╀		74	╀		Connec	Connector Name	WIRE TO WIRE	Ξ	-		
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1 1	╁	whith 2.01 turbo easoline engine and	8	Ŧ		Terminal	al Color Of		2 2	a a		
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ì	+		ê	+	- [with paddle snitt]	1	28		57	4		
28			98	+		4	SHIELD		52	9		
31	+	4	88	ω	+	2	>		56	G		
31		- [With 2.0L turbo gasoline engine]	88	>	- [With 2.0L turbo gasoline engine]	9	GR		30	Υ.		
32	8		88	w -	- [With VR30 engine]	8	В		31	GR	-	
m	8		91	I GR		6	R		32	SB		
34	Н		94	1 GR		10	Ь		33	W		
ñ	\dashv		6	>		11	В		34	Μ		
3	>		6	>		Ξ	SHIFLD	- (With rear view monitor)	32	8		

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REAR VIEW MONITOR SYSTEM

Connector No. M19	,	Connector Type TH80MW-CS16-TM4							Terminal Color Of Signal Name [Specification] No. Wire	1 Y -	+	+	4 BR	- 2	-	> 8	10 8G .		+	+	14 K	16 V	18 W	Н	+	22 SB :	╁	>	P - [With	+	+	4	+	4	32 B	9 20	+	╀	37 SB .	. 91 88	40 P
Connector No. M.1	_u	Connector lype TH24FW-NH		<u></u>	234 7	13/14/15/16 /18/19/20		- 1	Terminal Color Of Signal Name [Specification] No. Wire	2 R ILLUMINATION SIGNAL			1	13 B GND	SB ACC [For 2.0L t	>	15 B ILLUMINATION CONTROL SIGNAL	BG DIS	æ	N9I NBI	20 IG AIR RAG INDICATOR OFF SIGNAL	2		Connector No. M2	Connector Name INTEGRAL SWITCH	Connector Type Type 1554987-6	1				5/ /28	59			Terminal Color Of Signal Name (Specification)	+	; «	SHIELD			
OL TURBO GASOLINE ENGINE) 146 L FUELTAWK PRESSURE SENSOR STARTER RELAYH	a.	151 P DRIVETRAIN CAN-L 152 B EVAP CANISTER VENT CONTROL VALVE	9			Т	Connector Name JOINT CONNECTOR-E05	Connector Type NH24FB-J		5 7 8 8 X	5:1		20 E3 P2		Terminal Color Of	No. Wire Signal Name [Specification]	3 W	4	7 W 7	+	13 W	15 P - [Without Gateway]	œ	1	۵.	19 R - [With Gateway]	23 P - [Without Gateway]	ж	24 L												
REAR VIEW MONITOR SYSTEM (2.0L TU 36 G G G G G G G G G	38 R	39 L	H	Н	4	44 P	╬		Connector No. E200	وا	Ы	Connector Type ADA52FB-AHZ6		20 00 00 00 00 00 00 00 00 00 00 00 00 0	1.5. The state of					е	NO. WITE DOWER STIPPLY (MAIN)	9 8	POV POV	100 B ECM GROUND	Od B	102 B ECM GROUND 103 V COOLING FAN CONTROL SIGNAL (PWM)	. >	œ	W	- F	9	91	BR	BG	123 BR MAIN RELAY CONTROL SIGNAL	+	, -	L DRIVE	GR	143 LG REFRIGERANT PRESSURE SENSOR	٦

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JRNWF6710GB

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REAF	VIEV	REAR VIEW MONITOR SYSTEM (2.0L TU	JRBO G	ASOLII	(2.0L TURBO GASOLINE ENGINE)					
41	9		Connector	or No.	M20	Connector No.	M77	Connector No.		M100
42	BR		Connects	Connector Name	BRIW OT BRIW	Connector Name	STEERING ANGLE SENSOR	Connect	Connector Name	IINII IOBINOS AVIBSIU
43	BR				WINE IO WINE	COILLECTOL INGILLE	STEERING ANGLE SENSON			DISPLATE CONTROL ONLI
44	BR		Connector Type		TH16MW-NH	Connector Type	TH08FW-NH	Connector Type		TH24FW-NH
46	BG		9			9				
20	Μ					B		E		
51	٨		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			· ·	<u>_</u>	1		
25	۸		2	_	10015678	21	V 0 F	Ŝ		1617 1920 22
23	91) ;		7			20 30
54	ď				9 10 11 17 13 14 13 10		<u> </u>			
22	œ									
22	Λ									
28	^		Terminal	I Color Of	Signal Namo (Specification)	Terminal Color Of	Signal Name (Specification)	Terminal	Color Of	Simpl Name (Specification)
59	BG		No.	Wire	office indine [obscincerori)	No. Wire	oignal value [openication]	No.	Wire	Digital value [abecincation]
09	9		10	>		1 8	GROUND	16	97	AV COMM (L)
61	9		11	SHIELD		2 P	CAN-L [Without Gateway]	17	Ь	CAN-L
62	BG		12	8		2 R	CAN-L [With Gateway]	19	~	DIMMER SIGNAL
63	BR		13	Μ		4 6	IGN	20	BR	REVERSE SIGNAL
64	γ		14	В		2	CAN-H	22	В	GND
99	œ							56	BR	CAMERA SWITCH SIGNAL
20	97							28	SB	AV COMM (H)
71	>		Connector No.		M25	Connector No.	M97	59	-	CAN-H
72	8		1	Consistent None	GOLDINING SIMIL VIVO		X 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	30	Я	IGN [For VR30 engine]
73	3		Collinect		DATA LINA CONNECTOR	connector Name	DACK-OF LAWIP NELAT	30	×	IGN [For 2.0L turbo gasoline engine]
74	٦		Connector Type		BD16FW	Connector Type	MS02FL-M2-LC	31	œ	VEHICLE SPEED SIGNAL (8-PULSE)
75	>][_		[33	SB	ACC [Except for VR30 engine and with ISS]
92	BR					E	[33	^	ACC [For VR30 engine and with ISS]
77	89						က	34	¥	BAT
78	88		?		11 12 13 14 16	2	Ţ			
79	۵	- [With VR30 engine]			1345678					
79	>	- [With 2.0L turbo gasoline engine]			2 2		2 X 1	Connector No.		M101
81	8							Connect	Connector Name	TINIT IOGENOS AVIGSIG
82	ď									
83	BG		Terminal)	Signal Name [Specification]	Terminal Color Of	Signal Name (Specification)	Connector Type	or Type	TH40FW-NH
84	_		No.	Wire	[10]	No. Wire	[included a second of the seco	ģ		
82	≥		ñ	Γſ	M_CAN_L	1 8		厚		
98	В		4	В	EARTH	2 SB	- [With 2.0L turbo gasoline engine]) II		
88	g		S.	8	EARTH	2 W	- [With VR30 engine]	2		S 3 40 42 43 44 45 46 47 46 49 39 51 S2 54
68	>	- [With 2.0L turbo gasoline engine]	9	٦,	CAN-H	3 R				55 56 58 60 61 62 63 64 65 66 67 68 69 70 71 72 74
68	Μ	- [With VR30 engine]	7	۸	KLINE [With 2.0L turbo gasoline engine]	5 BR	•			
91	GR		7	W	KLINE [With VR30 engine]					
94	GR		80	W	IGN_SW					
96	Μ		11	SB	M_CAN_H			Terminal	Color Of	Constitution (Constitution)
26	^		12	В	CAN-L			No.	Wire	office indine (obscuiredon)
86	BR	Н	13	_	CAN-H			36	97	COMPOSITE IMAGE SIGNAL (-)
86	٨	Н	14	Ь	CAN-L			38	SHIELD	SHIELD
			16	W	POWER			40	SHIELD	MANUFACTURER SPECIFIC SIGNAL
								42	9	SOUND SIGNAL RH (-)
								43	SHIELD	SHIELD

JRNWF6711GB

REAR VIEW MONITOR SYSTEM

u	o	WIRE TO WIRE	TK36MW-NS10				া 2 3 4 5 দাহারাধ্যরাধানার আমারাহারাহারাহারাহার	३ ३ १० । राष्ट्राधानाज्ञात्राज्ञात्रा अस्मानाज्ञात्रास्त्रा				Control Masso (Consideration)	signal ivame [specification]	-	•	,	,	1									•						,													,
ob 04146							°	8 7 8				Color Of	Wire	В	GR	^	BG	_	d 6	97 ;	- (, 8	š ≥	œ	_	SHIELD	BR	В	o -	- a	. 9	>	GR	SB	BG	W	9	æ	SHIELD	В	W	8	GR	8	FIG.	8
Connector No	COILLECTO	Connector Name	Connector Type	(le de	\ =	į					Terminal	No.	2	8	6	10	11	12	£ ;	1¢	2	17	18	19	20	2.1	22	23	25	56	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
						M135	OINT CONNECTOR MOS	JOIN CONNECTOR-MOS	24342_4GA2A		E	7	11 10 9	18 17 16 15 14 13	24 23 22 21 20 19			Signal Name [Specification]										- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With 2 0] turbo gasoline	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]								
Į.	9 0	9 9	>			or No.	Connector Name	1)	or Type									0	Wire	a .	9 0	٠.	9	В	91	97	91	В	SB	9	8	SB	SB	Y	SB	γ	SB	٨	SHIELD	В	R	SHIELD	L	L		
ý	3	2 8	96			Connector No.	Connect	132	Connector Type		13	· ·	Ċ					Termina	ġ,	- 1	7	1	t is	9	6	10	11	13	13	7	15	15	16	16	17	17	18	18	19	20	21	22	23	24		
2.0L I OKBO GASOLIINE EINGIINE)	INITOO	FUSE BLOCK (J/B)	TH40FW-NH				Colocide Calculation and Calculation and Calculation and Calculation	40 Me 30 77 Me 30 Me 30 30 Me				Committee Consideration	olgnar Name (opecinication)							. Italy	- [Without DRPO]	[Own mail														- [With VR30 engine]	- [With 2.0L turbo gasoline engine]			-						
ASOCI ST No		Connector Name	or Type				-					II Color Of	Wire	۸	T	1	>	æ	œ .	_	8 -	. .	o ec	>	٦	٦	٦	9	SB	. 3	>	ď	æ	W	ч	В	~	W/B	SB	æ	W	SB	^	Ь	9	۵
Consector No		Connect	Connector Type			E	2					Terminal	No.	10C	12C	13C	14C	15C	160	1/1	187	1 5	10	20C	21C	22C	23C	25C	26C	280	29C	2C	30C	31C	32C	33C	33C	34C	35C	360	37C	38C	39C	3C	40C	4C
AE WE WINDINIOR STSTEIN (2.0L I		SHIELD VOICE GUIDANCE SIGNAL OUTPUT (-)		NS ON/OFF SIGNAL	MICROPHONE SIGNAL GND		MICR	Ø)		COMPOSITE IMAGE SIGNAL (+)	CAMERA IMAGE SIGNAL	SOUND SIGNAL (-)	SOUND SIGNAL (+)	SOUND SIGNAL RH (+)	SHIELD	SOUND SIGNAL LH (+)	TEL VOICE SIGNAL (+)	SHIELD		VOICE GUIDANCE SIGNAL INPUT (+)	SHIELD	MICEOBLONE SIGNAL IMSTAGRATIC SIGNAL	MICROPHONE SIGNAL [With telematics system]	MICROPHONE VCC	CAMERA POWER SUPPLY			M105	DISPLAY CONTROL UNIT	Tvco 1554987-6			<u>[</u>		92 93	94			Signal Name (Specification)	The state of the s	LVDS (+)	LVDS (-)	SHIELD			
ٍ ٰٰ	Λ.	SHELD	· a	≥	œ	SHIELD	SHIELD	M	SHIELD	BR	В	*	В	Я	SHIELD	۸	8	SHIELD	υ ;	A	SHIELD	,	2	-	œ			Connector No.	Connector Name	Connector Type									Terminal Color Of	Wire	Μ	8	SHIELD			

JRNWF6712GB

Revision: November 2016 **AV-673** 2016 Q50

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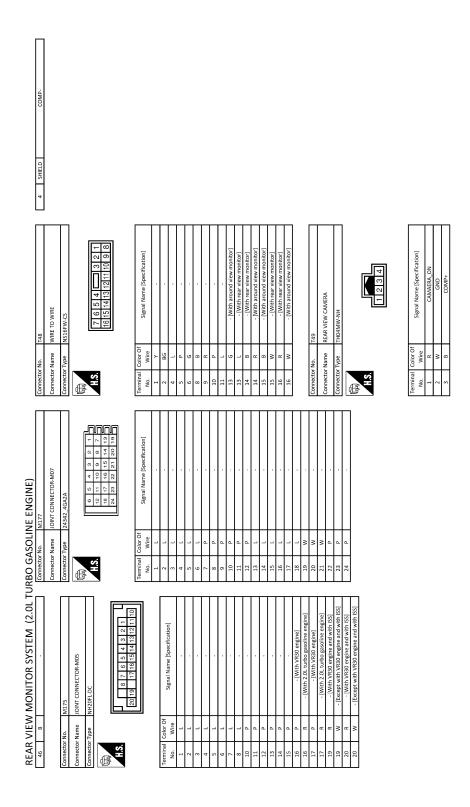
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L

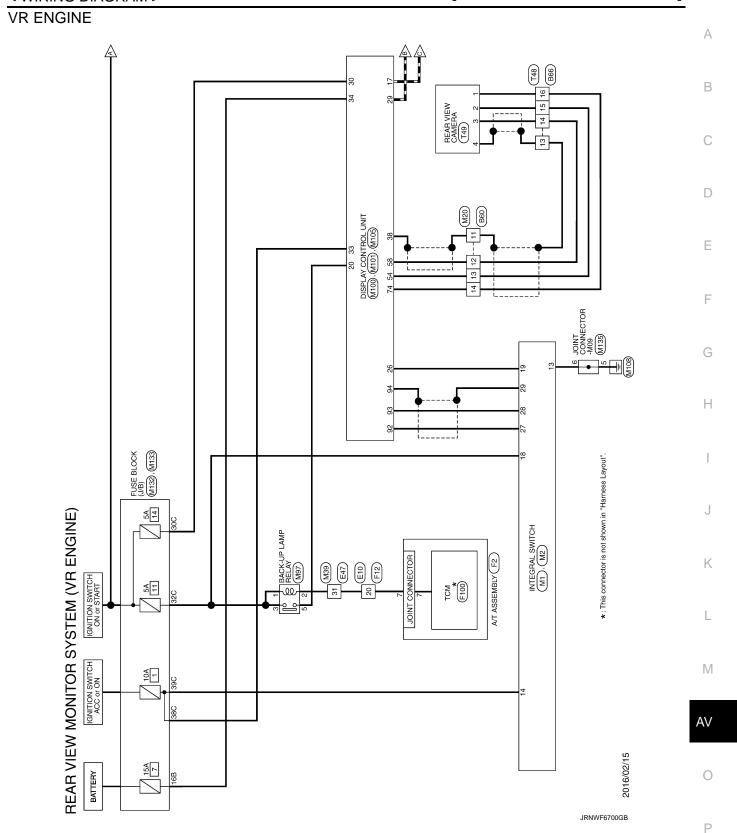
M

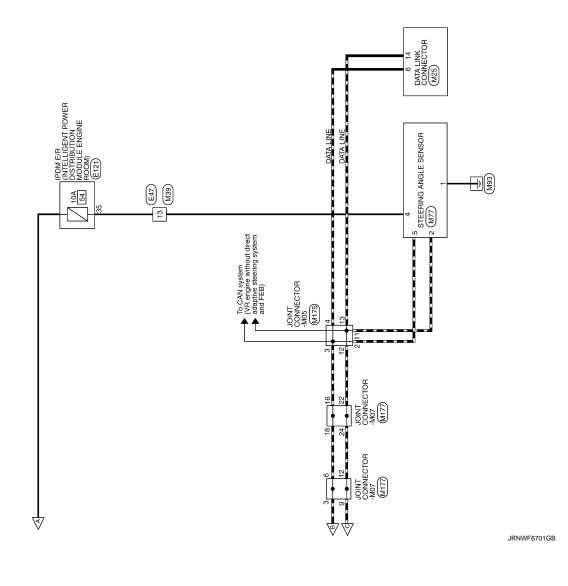
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JRNWF6713GB





REAR VIEW MONITOR SYSTEM

[REAR VIEW MONITOR SYSTEM]

< \	۷I	RI	N	G	DI	AG	RA	M	>

Connector No.	980	15	M	- [With rear view monitor]	32	œ		6	>	- [With BOSE system]
Constant Name	DOWN OF BOWN	16	8	- [With around view monitor]	33	8		10	>	
ector Name	WIRE 10 WIRE	16	æ	- [With rear view monitor]	34	>		11	SB	
Connector Type	TH16FW-NH				35	91		12	9	
					36	W		13	9	
_		Connector No.	. No. E10		37	^	,	15	BR	
Į.	_ 	Connector Name		WIRE TO WIRE	38	BR		16	۵	
ä	87654321		,		39	GR		17	SHIELD	-
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Connector Type		SAA36MB-RS8-SHZ8	40	SHIELD		18	П	
	15 15 14 13 12 11 10 9				41	В		19	Υ	
					42	æ		20	Μ	
		Š		~	43	>		21	9	
Terminal Color Of	Complete Consideration	? !		1719171	44	SHIELD		22	œ	
No. Wire	ognal value (specification)			5 6 26728243031223334	45	٨		23	BR	
10 Y				7 8 35 36 37 38 38 40 41 42 43	46	Ь		24	В	
SHIELD					47	7		25	7	•
12 B					48	97		97	BG	
13 W		Terminal	Color Of	(49	BG		27	91	
14 R		No.	Wire	olgital Name [opecification]	20	SHIELD		28	BR	
		1	œ		51	×		53	×	
		2	œ		52	9		30	>	
Connector No.	998	ю	91		<u> </u>			31	Ø	
A	TOWN OF JOHN	4	æ					32	GR	
	WINE IO WINE	2	9		Connector No.		E47			
Connector Type	NS16MW-CS	7	>		Connector Name		WIRE TO WIRE			
		80	W					Connector No.	or No.	E121
		6	×		Connector Type	╗	TH32MW-NH	Connec	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE
S H	100	10	BG		Q				,	(ACCOM)
3	o :	11	91		季			Connec	Connector Type	TH32FW-NH
	8 9 10 11 12 13 14 15 16	12	BG.		\ \ \ \	l		Q		
		13	_ ;			ات	7 8 9 10 11	手		
		14	-				17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	SH/		
		15	91			j			•	19 22 23 27 28 29 31 32 33
ē	Signal Name (Specification)	16	o							35 36 37 38 41 43
No. Wire		17	_			-				
œ		18	۵		ь	Color Of	Signal Name [Specification]			
BG		19	GR		Ö	Wire	;			
4 SHIELD		20	g		1	g	 [Color of wire differs depending on production] 	Terminal	U	Signal Name [Specification]
S W		21	GR		1	٨	- [Color of wire differs depending on production]	No.	Wire	
6 GR		22	M		2	۸		19	7	- [With 2.0L turbo gasoline engine]
8		23	9		3	_		19	۵	- [With VR30 engine]
9 R		24	BG		4	۵	- [Without Gateway]	22	88	
10 P	1	25	>		4	æ	- [With Gateway]	23	GR	- [With VR30 engine]
11 B		56	BR		.S	>		23	91	- [With 2.0L turbo gasoline engine and without Anti theft diode]
SHIELD	- [With rear view monitor]	27	Α.		9	SB		23	۵	- [With 2.0L turbo gasoline engine and with Anti theft diode]
13 W	- [With around view monitor]	28	BG		7	BR	- [Color of wire differs depending on production]	27	GR	
14 B	- [With rear view monitor]	59	91		_	_	- [Color of wire differs depending on production]	28	۵	
9	- [With around view monitor]	30	9		80	W		29	_	
15 R	- [With around view monitor]	31	>		6	88	- [Without BOSE system]	31	G	

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Connector No. F12		Н	┪	SHIELD -	41 B - Connector Type TH24FW-NH	42 R	43 Y -	45 Y	46 P	13 14 15 16 18 19	. 91	49 BG -	W Terminal Color Of	_	2 R ILLUMINATION SIGNAL	3 16		W/8	80 3	SP10F6	SB ACC IF	14 V IIIIMMATON CONTROL SIGNAL		18 R	18 W IGN [For 2.01 turbo gasoline engine]	BR	50 LG	ler.		1 - IGNITION POWER SUPPLY CONNECTOR NO. M.Z	2 - BATTERT POWER SUPPLY IMEMORY BALL-UP) Connector Name INTEGRAL SWITCH		GROUND	6 - IGNITION POWER SUPPLY	7 - BACK-UP LAMP RELAY		9 - STARTER RELAY 27 28	10 - GROUND 29			Terminal Color Of cirrari Manage (Conceitention)	Wire	27 W LVDS (+)		29 SHIELD SHIELD			
Sector S		F12		-				16 15 14 13	0 4		_		L													-															•							
		nector No.	nector Name		nector Type			٤	2				Terminal Color	No. Wire	1 R	\dashv	\dashv	+	$^{+}$	+	+	+	+	H	13 L	14 Y	Н	16 Y	+	+	+	+	╀	H	\vdash	25 V	26 W	L	28 W	Z9 Y	30 R	Н	_	Н	Н	+	+	_
						- [With VR30 engine]	- [With 2.0L turbo gasoline engine]						F2	V T ACCENABLY	A) I ASSEMBLE	RK10FG-DGY		<		(5 4 3 2 1)	9 2 8 6 07			(olgnal Name (opecification)	IGNITION POWER SUPPLY [With 2.0L turbo gasoline eng.	IGNITION POWER SUPPLY [With VR30 engi-	BATTERY POWER SUPPLY (MEMORY BACK-I	CAN-H	K-LINE	GROUND [With 2.0L turbo gasoline engin	IGNITION POWER SUPPLY	BACK-UP LAMP RELAY	CAN-I.	STARTER RELAY	GROUND												
MONITOR SYSTEM (VR ENGINE)	\ VIEW	SB	SB	>	9	SB	Μ	GR	BR	GR	>			8	.	\neg	_							Color Of	Wire	GR	٦	۵	-[× 4	0 8	88	BG	۵	>	8												
EB EB EB EB EB EB EB EB	REAF	32	33	34	32	36	36	37	38	41	43		Connector No.	Connect		Connecto	þ	唐) III					Terminal	No.	1	1	2	е.	4 r	n u	9	_	∞	o	10												

JRNWF6703GB

REAR VIEW MONITOR SYSTEM

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REAR VIEW	REAR VIEW MONITOR SYSTEM (VR ENGINE)	SINE)								
Connector No.	M20	Conne	Connector No.	M39	Connector No.	M77	Connector No.	lo. M100	00	
Connector Name V	WIRE TO WIRE	Conne	Connector Name	WIRE TO WIRE	Connector Name	STEERING ANGLE SENSOR	Connector Name		DISPLAY CONTROL UNIT	
Connector Type T	TH16MW-NH	Conne	Connector Type	TH32FW-NH	Connector Type	TH08FW-NH	Connector Type		TH24FW-NH	
是 H.S.	1 2 3 4 5 6 7 8	E -	νi	1615141312111109876541321	E H.S.	<u> 1</u>	₽ H.S.		1617 1920	
	11 12 13 14 15			32 31 30 29 28 27 26 25 24 23 22 21 20 19 19 17		2				
Terminal Color Of No. Wire	Signal Name [Specification]	Terminal No.	inal Color Of Wire	Signal Name [Specification]	Terminal Color Of No. Wire	Of Signal Name [Specification]	Terminal O	Color Of Wire	Signal Name [Specification]	
H		T	Н		Н		16	91	AV COMM (L)	
Ÿ		2	SB		2 P	U	17	Ь	CAN-L	
		e e				CAN-L [V	19	æ	DIMMER SIGNAL	
13 W		4	+	- [Without Gateway]	4 6		20	BR.	REVERSE SIGNAL	
14 R		4 .	× 8	- [With Gateway]	2	CAN-H	22	9 8	GND GANATOR CULTURAL	
		9	+				28	S S	AV COMM (H)	
Connector No.	M25	_	+		Connector No.	M97	59	-	CAN-H	
ı	000000000000000000000000000000000000000	∞	>			П	30	æ	IGN [For VR30 engine]	
	DATA LINK CONNECTOR	6	Ь	- [Without BOSE system]	Connector Name		30	W	IGN [For 2.0L turbo gasoline engine]	
Connector Type B	BD16FW	6	^	- [With BOSE system]	Connector Type	MS02FL-M2-LC	31	В	VEHICLE SPEED SIGNAL (8-PULSE)	
4		10	Н		4		33	SB A	ACC [Except for VR30 engine and with ISS]	
唐		11	1 SB		唐		33	>	ACC [For VR30 engine and with ISS]	
Ě	1111212111	12	+		ě	3	34	>	BAT	
III	0 1 2 1 1 1	13	9 9			727				
	1343618	16	+			2 X 1	Connector No.	4o. M101	01	
		17	S							
		18	×				Connector Name		DISPLAY CONTROL UNIT	
lal	Signal Name [Specification]	19	≻		ler	Of Signal Name (Specification)	Connector Type	П	TH40FW-NH	
_	[10000000000d]	50	+		No. Wire		Q			
+	M_CAN_L	21	+		+		李			
t n	EARIH	7 2	¥ 8		2 SB	+	H.S.	<u>[</u>		
+	H-NAC	24	+		ł			8 3	88 89 40 42 43 44 45 46 47 48 49 99 51 52 54	
2 ^	KLINE (With 2.0L turbo gasoline engine)	25	╀		+			3		
. v	KLINE [With VR30 engine]	26	>		ł					
8	IGN SW	27	97							
11 SB	M_CAN_H	28	8 BR				Terminal	Color Of	Signal Name (Specification)	
12 R	CAN-L	59	9/M/B				No.	Wire	signal ivame [specification]	
13 L	CAN-H	30	, c				36	FI.G	COMPOSITE IMAGE SIGNAL (-)	
14 P	CAN-L	31	1 W				Н	SHIELD	SHIELD	
16 W	POWER	32	\dashv	- [With Anti-theft diode]			T	SHIELD	MANUFACTURER SPECIFIC SIGNAL	
		32	2 LG	- [Without Anti-theft diode]			Н	9	SOUND SIGNAL RH (-)	
							43	SHELD	SHIELD	

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REA	R VIEV	REAR VIEW MONITOR SYSTEM (VR ENGINE)	SINE)								
45	*	TEL VOICE SIGNAL (-)	Connector No.	l	M132	20C	8		9	8	
46	SHIELD		Connector Name		(a/I) ADOIR ESITE	21C	٦		6	Н	
47	~	VOICE GUIDANCE SIGNAL OUTPUT (-)			(2/2)	22C	_		10	-	
48	В	VOICE GUIDANCE SIGNAL INPUT (-)	Connector Type		NS16FW-CS	23C	ı		11	91 1	
49	Μ	NS ON/OFF SIGNAL	9			25C	PT PT		13	8 B	- [With VR30 engine]
20	œ	MICROPHONE SIGNAL GND	B			26C	SB		13	SB SB	- [With 2.0L turbo gasoline engine]
51	SHIELD		X			27C	а		14		- [With VR30 engine]
25	SHIELD	MICROPHONE SIGNAL GND	2		58 48 28	28C	М		14	88	- [With 2.0L turbo gasoline engine]
54	%				16B 15B 14B 13B 11B 9B	29C	Μ		15		- [With VR30 engine]
25	SHIELD	SHIELD				2C	æ		15	88	- [With 2.0L turbo gasoline engine]
99	BR	COMPOSITE IMAGE SIGNAL (+)				30C	æ		16	SB SB	- [With 2.0L turbo gasoline engine]
28	8	CAMERA IMAGE SIGNAL				31C	>		16	>	- [With VR30 engine]
09	W	SOUND SIGNAL (-)	Terminal	Terminal Color Of	Signal Name (Specification)	32C	ĸ		17	SB 7	- [With 2.0L turbo gasoline engine]
61	В	SOUND SIGNAL (+)	No.	Wire	orginal value [openingation]	33C	В	- [With VR30 engine]	17	٨ .	- [With VR30 engine]
62	Я	SOUND SIGNAL RH (+)	118	97		33C	Я	- [With 2.0L turbo gasoline engine]	18	S SB	- [With
63	SHIELD		138	Ь		34C	W/B	•	18	۸	- [With VR30 engine]
64	^	SOUND SIGNAL LH (+)	148	9		35C	SB		19	3 SHIELD	
65	8	DA TEF AC	158	*		39C	œ		20	8	
99	SHIELD	SHIELD	168	٨		37C	W		21	8	
49	9	VOICE GUIDANCE SIGNAL OUTPUT (+)	28	8		38C	SB		22	SHIELD	-
89	*	VOICE GUIDANCE SIGNAL INPUT (+)	48	*		39C	>		23	~	
69	SHIELD	SHIELD	58	œ		30	Ь		24	_	,
70	9	MICROPHONE SIGNAL	96	>		40C	9				
71	9	MICROPHONE SIGNAL [Without telematics system]				4C	۵				
71	æ	MICROPHONE SIGNAL [With telematics system]				2C	Ь		Conne	Connector No.	M175
72	_	MICROPHONE VCC	Connector No.		M133	9	9		Č	Connector Name	SON GOLDANGO INICI
74	æ	CAMERA POWER SUPPLY	Connector Name		FIISE BLOCK (1/B)	7C	9			acron ivanie	
				- 1	(a/a)	9C	9		Conne	Connector Type	NH20FL-DC
			Connector Type	٦	TH40FW-NH	36	>		ą		
Connector No.	or No.	M105	Q						唐	_	
Connect	Connector Name	DISPLAY CONTROL UNIT	B					8 6 7 7 7 7	7	S H	
		1. P. C.	\ \ \			Connector No.	١	M135		1	8 / 6 5 4 3 2
Dallion	adkı ıo	1yco_1554987-6			20 80 80 80 10 10 80 80 10 10 10 10 10 80 90 10 80 80 80 10 10 10 10	Connecto	or Name	Connector Name JOINT CONNECTOR-M09			2019 17161514131211110
ą[400 MOS BOD 1000 MOS BOD MAC BOD	Cond-total	Τ	**************************************			
新		<u>(</u>				Colliect		24342_46A2A			
S .						Œ	_		Tormina	O rolo	
		69 683	Terminal Color Of	Color Of		建丁		6 5 4 3 2 1 4	2	Wire	Signal Name [Specification]
		84	Q.	Wire	Signal Name [Specification]	H.S.		11109	-	t	
			10C	>			ı	18 17 16 15 14 13	2	_	
			12C	_				23 22 21 20	3	_	
Terminal	al Color Of		13C	_				0-0717171	4	-	
No.	Wire	Signal Name [Specification]	14C	>					2		,
95	>	FADS (+)	15C	~		Terminal	I Color Of	Name of Street o	9	_	
93		FADS (-)	16C	œ		No.	Wire	oignai ivanne (opecincation)	_	_	
94	SHIELD	SHIELD	17C	_		1	В		89		
			18C	BG	- [Without DRPO]	2	В		10	۵	
			18C	Ь	- [With DRPO]	3	В		11	Ь	
			19C	9		4	В		12	Н	
			1C	ч		2	В		13	9 8	

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Revision: November 2016

4 SHELD COMP.					
748 WISTERW-CS NSTERW-CS 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8	Signal Name [Specification]	- (With rear view monitor) - [With rear view monitor] - [With arear view monitor] - [With around view monitor] - [With around view monitor] - [With rear view monitor] - [With rear view monitor] - [With around view monitor]	749 REAR VIEW CAMERA THOGAWA-NH	1234	Signal Name [Specification] CAMAERA_ON
nector No. nector Type	No. Wire	133 G 133 L 144 B 114 R 15 W 15 W 16 W	Connector No. Connector Name Connector Type	H.S.	Terminal Color Of No. Wire
Section Common Common	GONNECTOR-M07 4GA2A 6 5 4 3 2 1 1 12 11 10 9 8 7 1 18 17 16 15 14 13 24 22 22 21 20 19		uwo www www.		Terr
X V A A A A A A A A A A A A A A A A A A		Color Of No. Wire No. Wire Color Of No. Wire Color Of No. Wire No. W	0 0 0 0 0 0 0		\$ 3 3 0 0
REAF 14 15 16 16 17 17 19 20 20	Connector No. Connector Name Connector Type	Terminal No. 1 2 2 3 4 4 5 5 6	7 8 8 9 10 11 12 13	14 15 16 17 18 19	22 21 22 22

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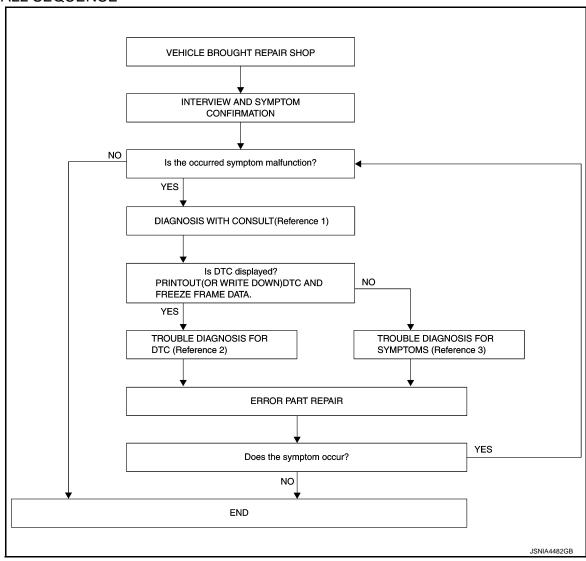
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



- Reference 1... Refer to <u>AV-655</u>, "CONSULT Function".
- Reference 2··· Refer to <u>AV-665, "DTC Index"</u>.
- Reference 3··· Refer to AV-690, "Symptom Table".

DETAILED FLOW

1.INTERVIEW AND SYMPTOM CONFIRMATION

Check the malfunction symptoms by performing the following items.

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

Is the occurred symptom malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

2.DIAGNOSIS WITH CONSULT

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[REAR VIEW MONITOR SYSTEM]

1.	Connect CONSULT	and perform a sel	f-diagnosis for	"MULTI AV"	'. Refer to	<u>AV-655.</u>	<u>"CONSULT</u>	Function".
	NOTE:	•	_					

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

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

Is DTC displayed?

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

3. TROUBLE DIAGNOSIS FOR DTC

- 1. Check the DTC indicated in the "Self-Diagnosis Results".
- Perform the relevant diagnosis referring to the DTC Index. Refer to AV-665, "DTC Index".

>> GO TO 5.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to <u>AV-690, "Symptom Table"</u>.

>> GO TO 5.

5. ERROR PART REPAIR

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

NOTE:

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

3. Check that the symptom does not occur.

Does the symptom occur?

YES >> GO TO 1.

NO >> INSPECTION END

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Revision: November 2016 **AV-683** 2016 Q50

POWER SUPPLY AND GROUND CIRCUIT

[REAR VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT DISPLAY CONTROL UNIT

DISPLAY CONTROL UNIT: Diagnosis Procedure

INFOID:0000000013498236

1. CHECK FUSE

- 1. Turn ignition switch OFF.
- Check that the following fuse is not blown (open).

2.0L turbo gasoline engine

Power source	Fuse No.	Capacity
Battery	#84	15 A
Ignition switch ACC	#93 [*]	10 A
Ignition switch ON	#77	10 A

^{*:} Without navigation system

VR30DDTT

Power source	Fuse No.	Capacity
Battery	#7	15 A
Ignition switch ACC	#1 [*]	10 A
Ignition switch ON	#14	5 A

^{*:} Without navigation system

Is the fuse blown (open)?

YES >> Replace fuse after repairing the applicable circuit.

NO >> GO TO 2.

2. CHECK DISPLAY CONTROL UNIT BATTERY POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect display control unit harness connector.
- 3. Check the voltage between display control unit harness connector and ground.

Terminals			
(+)			Voltage
Display control unit		(–)	voltage
Connector	Terminal		
M100	34	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis for battery power supply circuit.

3.CHECK DISPLAY CONTROL UNIT ACCESSORY POWER SUPPLY

- Turn ignition switch ON.
- 2. Check the voltage between display control unit harness connector and ground.

Terminals			_
(+)			Voltage
Display control unit		(–)	voltage
Connector	Terminal		
M100	33	Ground	Battery voltage

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REAR VIEW MONITOR SYSTEM]

Is the inspection result normal?

YES >> GO TO 4.

NO

>> Perform trouble diagnosis for accessory power supply circuit.

4. CHECK DISPLAY CONTROL UNIT IGNITION POWER SUPPLY

Check the voltage between display control unit harness connector and ground.

(+)		Voltage
Display control unit		(–)	voltage
Connector Terminal			
M100	30	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> Perform trouble diagnosis of ignition power supply circuit.

5. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check the continuity between display control unit and ground.

(+)		Continuity
Display control unit		(–)	Continuity
Connector Terminal			
M100	22	Ground	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace malfunctioning parts.

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CAMERA IMAGE SIGNAL CIRCUIT (WITH REAR VIEW MONITOR)

< DTC/CIRCUIT DIAGNOSIS >

[REAR VIEW MONITOR SYSTEM]

CAMERA IMAGE SIGNAL CIRCUIT (WITH REAR VIEW MONITOR)

Description INFOID.000000012795876

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

Diagnosis Procedure

INFOID:0000000012795877

1. CHECK CAMERA IMAGE SIGNAL

- 1. Turn ignition switch ON.
- 2. Shift the selector lever to "R" position.
- 3. Check the signal between display control unit harness connector and ground.

	isplay control u	nit		
Terminals		Condition	Reference value	
Connector	(+)	(-)	Condition	Neierence value
	Terr	minal		
M101	58	38	At rear view camera image is displayed.	(V) 0. 4 0 -0. 4 → 40µs SKIB2251J

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-692, "Removal and Installation".

NO >> GO TO 2.

2.CHECK CAMERA IMAGE SIGNAL CIRCUIT FOR OPEN

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

Display control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M101	58	T49	3	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.CHECK CAMERA IMAGE SIGNAL CIRCUIT FOR SHORT

Check the continuity between display control unit harness connector and ground.

(+)		Continuity
Display o	ontrol unit	(–)	Continuity
Connector	Terminal		
M101	58	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 4.

CAMERA IMAGE SIGNAL CIRCUIT (WITH REAR VIEW MONITOR)

< DTC/CIRCUIT DIAGNOSIS >

[REAR VIEW MONITOR SYSTEM]

NO >> Repair or replace malfunctioning parts.

4. CHECK CAMERA IMAGE SIGNAL GROUND CIRCUIT

Check the continuity between display control unit harness connector and rear view camera harness connector.

Display control unit		Rear view camera		Continuity
Connector	Terminal	Connector Terminal		Continuity
M101	38	T49	4	Existed

Is the inspection result normal?

YES >> Replace rear view camera. Refer to AV-693, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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[REAR VIEW MONITOR SYSTEM]

REVERSE SIGNAL CIRCUIT

Component Function Check

INFOID:0000000012795878

1. CHECK REVERSE SIGNAL

(E)With CONSULT

- 1. Turn ignition ON.
- Select "REV SIG" in "DATA MONITOR" mode of "MULTI AV" using CONSULT.
- 3. Check "REV SIG" indication as per the following condition.

Monitor item	Condition		Indication
REV SIG	Soloctor lover position	R position	On
INEV SIG	Selector lever position	Other than R position	Off

Is the inspection result normal?

YES >> INSPECTION END

NO >> Proceed to AV-688, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012795879

1. CHECK REVERSE RANGE SIGNAL

Check the voltage between display control unit harness connector and ground as per the following condition.

Terminals					
(+)			Condition	Voltage (Approx.)	
Display c	Display control unit		Corrainorr		
Connector	Terminal				
M100	20	Ground	Shift the selector lever to R position.	12.0 V	
IVITOO	20	Giodila	Shift the selector lever other than R position.	0 V	

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-692, "Removal and Installation".

NO >> GO TO 2.

2.CHECK REVERSE SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect display control unit harness connector.
- 3. Remove back-up lamp relay.
- 4. Check the continuity between display control unit harness connector and back-up lamp relay harness connector.

Display control unit		Back-up lamp relay		Continuity
Connector	Terminal	Connector Terminal		Continuity
M47	17	M69	5	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.CHECK BACK-UP LAMP POWER SUPPLY

- Turn ignition switch ON.
- 2. Check the voltage between back-up lamp relay harness connector and ground.

REVERSE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REAR VIEW MONITOR SYSTEM]

(+)		Voltage
Back-up lamp relay		(–)	(Approx.)
Connector	Terminal		
M69	1	Ground	Battory voltage
WIOS	3	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> Check ignition power supply circuit.

4. CHECK BACK-UP LAMP RELAY

- 1. Turn ignition switch OFF.
- Check the back-up lamp relay. Refer to <u>AV-689</u>, "Component Inspection".

Is the inspection result normal?

- YES-1 >> VR30DDTT: Perform "self diagnostic result" in "TRANSMISSION". Refer to <u>TM-86, "2.0L TURBO GASOLINE ENGINE</u>: CONSULT Function".
- YES-2 >> 2.0L turbo gasoline engine: Perform "self diagnostic result" in "ENGINE". Refer to <u>EC4-101</u>, "CONSULT Function".
- NO >> Replace back-up lamp relay.

Component Inspection

1. CHECK BACK-UP LAMP RELAY

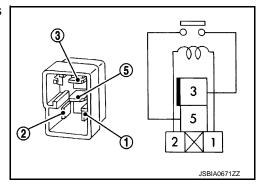
- 1. Turn ignition switch OFF.
- 2. Remove back-up lamp relay.
- 3. Check the continuity between back-up lamp relay terminals as per the following condition.

Back-up lamp relay Terminal		Condition	Continuity
		Condition	
3	5	12 V direct current supply between terminals 1 and 2	Existed
		No current supply	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back-up lamp relay.



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REAR VIEW MONITOR SYSTEM

< SYMPTOM DIAGNOSIS >

[REAR VIEW MONITOR SYSTEM]

SYMPTOM DIAGNOSIS

REAR VIEW MONITOR SYSTEM

Symptom Table

REAR VIEW MONITOR SYSTEM

Symptoms	Possible cause	Inspection item
Camera image is not shown. (Vehicle width and predictive course line are displayed.)	Harness between rear view camera and display control unit Rear view camera Display control unit	Camera image signal circuit. Refer to <u>AV-686, "Diagnosis Procedure"</u> .
Camera image does not switch.	Harness between back-up lamp relay and display control unit Ignition power supply circuit Back-up lamp relay Display control unit TCM	Reverse signal circuit. Refer to AV-688, "Diagnosis Procedure".

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[REAR VIEW MONITOR SYSTEM]

NORMAL OPERATING CONDITION

Description INFOID:0000000012795882

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.

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DISPLAY CONTROL UNIT

< REMOVAL AND INSTALLATION >

[REAR VIEW MONITOR SYSTEM]

REMOVAL AND INSTALLATION

DISPLAY CONTROL UNIT

Removal and Installation

INFOID:0000000013498237

REMOVAL

CAUTION:

- Before replacing display control unit, perform "Read/Write Configuration" to save or print current vehicle specification. For details, refer to AV-275, "Description".
- Remove battery terminal and display 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 display control unit continues operating for approximately 30 seconds. Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.
- Downloaded applications are deleted when display control unit is replaced.
- 1. Remove the integral switch. Refer to AV-410, "Removal and Installation".
- 2. Remove the bracket screws.
- 3. Disconnect the harness connector from the display control unit.
- 4. Remove the bracket from display control unit.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to perform "Read/Write Configuration" when replacing display control unit. For details, refer to AV-275, "Description".

REAR VIEW CAMERA

Removal and Installation

INFOID:0000000012795884

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REMOVAL

- 1. Remove the trunk lid finisher. Refer to EXT-58, "TRUNK LID FINISHER: Removal and Installation".
- 2. Remove the rear view camera mounting screws, then remove rear view camera.

INSTALLATION

Install in the reverse order of removal.

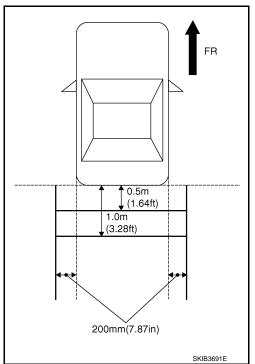
NOTE:

Adjust the guide line position if the guide line position is shifted after installing the rear view camera. Refer to <u>AV-693</u>, "Adjustment".

Adjustment INFOID:000000012795885

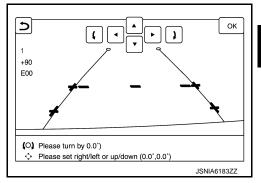
If the side distance guiding lines are dislocated after installation of the rear view camera, adjust the position of the side distance guiding lines.

- 1. Draw the correction lines at the rear of the vehicle passing through the following points: 20 cm from both sides of the vehicle, and 0.5 m and 1.0 m from the rear end of the bumper.
- Set "Adjust offset of rear view camera" mode in Confirmation/ Adjustment mode.



 Operate the touch panel and select the guiding line pattern so that its angle is aligned with the correction line of the rear of the vehicle.

Selection range (-10°) – $(+10^{\circ})$ in increments of 0.2° step



4. Press the upper/lower/left/right switch to perform the fine adjustment of the guiding lines so that the position of the guiding lines is aligned with the correction lines of the rear of the vehicle. The position of adjusted guiding line is recorded to the display control unit by pressing the "OK" switch.
CAUTION:

Never perform other operations while the quiding line position is memorized.

REAR VIEW CAMERA

[REAR VIEW MONITOR SYSTEM]

Upper/lower adjustment range (-10°) – $(+10^\circ)$ in increments of 0.2° step Left/right adjustment range (-10°) – $(+10^\circ)$ in increments of 0.2° step

STEERING ANGLE SENSOR

< REMOVAL AND INSTALLATION >

[REAR VIEW MONITOR SYSTEM]

STEERING ANGLE SENSOR

Removal and Installation

INFOID:0000000013498238

REMOVAL

- 1. Remove the spiral cable. Refer to SR-22, "Removal and Installation".
- 2. Remove the steering angle sensor from spiral cable.

INSTALLATION

Install in the reverse order of removal.

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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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "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 or batteries, and wait at least 3 minutes before performing any service.

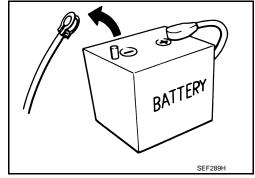
Precautions for Removing Battery Terminal

INFOID:0000000013498209

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE : 4 minutes V9X engine : 4 minutes : 20 minutes YD25DDTi D4D engine : 2 minutes YS23DDT HR09DET : 12 minutes : 4 minutes HRA2DDT : 12 minutes YS23DDTT : 4 minutes K9K engine : 4 minutes ZD30DDTi : 60 seconds M9R engine : 4 minutes ZD30DDTT : 60 seconds R9M engine : 4 minutes



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.

 After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.
 NOTE:

PRECAUTIONS

< PRECAUTION > [TELEMATICS SYSTEM]

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
- Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
- Driving for 30 minutes or more on a steep slope.
- 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.

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.

Precaution for Trouble Diagnosis

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AV COMMUNICATION SYSTEM

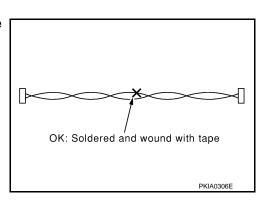
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

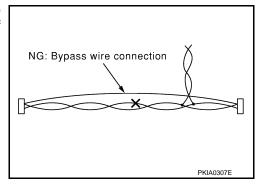
INFOID:0000000013498041

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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[TELEMATICS SYSTEM]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000013498042

	Tool	Description
Power tool	PBIC0191E	Loosening screws

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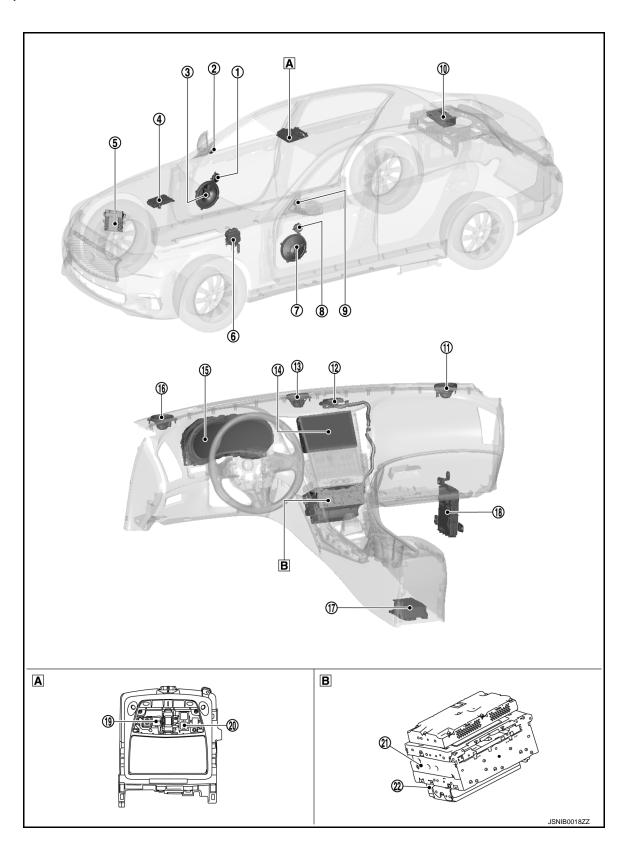
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



A Map lamp

B Back of integral switch

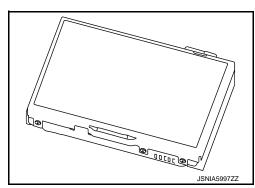
< SYSTEM DESCRIPTION >

No.	Part name	Description
1	Front door squawker RH	Outputs sound signal.
2	Tweeter RH	Outputs sound signal.
3	Front door woofer RH	Outputs sound signal.
4	ECM (2.0L turbo gasoline engine)	Transmits the following signals to the TCU via CAN communication. Malfunctioning indicator lamp signal Engine status signal Refer to EC4-25, "ENGINE CONTROL SYSTEM: Component Parts Location", for detailed installation location.
<u> </u>	ECM (VR30DDTT)	Transmits the following signals to the TCU via CAN communication. • Malfunctioning indicator lamp signal • Engine status signal
6	ABS actuator and electric unit (control unit)	Transmits the following signals to the TCU via CAN communication. ABS warning lamp signal VDC warning lamp signal Refer to BRC-10. "Component Parts Location", for detailed installation location.
7	Front door woofer LH	Outputs sound signal.
8	Front door squawker LH	Outputs sound signal.
9	Tweeter LH	Outputs sound signal.
10	BOSE amp.	Inputs sound signal from AV control unit, and outputs sound signal to each speaker.
11)	Front squawker RH	Outputs sound signal.
12	Telematics antenna	Refer to AV-701, "Telematics Antenna".
13	Center squawker RH	Outputs sound signal.
14)	Display control unit	Refer to AV-700, "Display Control Unit".
15)	Combination meter	Transmits the brake warning lamp signal to the TCU via CAN communication.
16	Front squawker LH	Outputs sound signal.
17	Air bag diagnosis sensor unit	Transmits the car crash information signal to the TCU via CAN communication. Refer to SRC-6, "Component Parts Location", for detailed installation location.
18	BCM	Transmits the following signals to the TCU via CAN communication. • Door lock status signal • Oil pressure switch signal
19	Microphone	Refer to AV-702, "Microphone".
20	Telematics switch	Refer to AV-702, "Telematics Switch".
21)	AV control unit	Inputs sound signal from display control unit, and outputs sound signal to BOSE amp.
22	TCU	Refer to AV-701, "TCU".

Display Control Unit

INFOID:0000000013498044

- Display control unit is installed at the center of the instrument panel
- It is connected to TCU with the USB harness and signals necessary for telematics function is sent and received.
- Switch operation signals used for the Telematics system are transmitted to TCU via USB communication from the display control unit.



[TELEMATICS SYSTEM]

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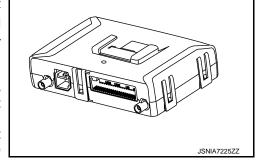
INFOID:0000000013498046

TCU

- TCU is abbreviation of Telematics Communication Unit.
- It is installed on the instrument lower cover.
- A radio communication terminal and SIM card are built into the unit and data is sent and received in SMS^{*1}, DTMF tone signal and packet communication^{*2} with the Infiniti Connection[™] Data Center through the TEL antenna.

NOTE:

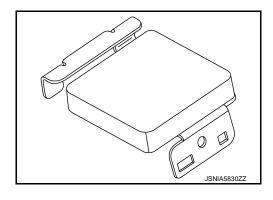
- *1: SMS stands for Short Message Service. It is also referred to as Text Messaging, Short Mail, etc. It is the service that performs text based message communication.
- *2: Packet communication means a communication method that data are broken down into smaller chunks for communication. The split data is called a packet and this method improves the efficiency of the communication circuit.



- It is connected to the display control unit with the USB harness for sound signal input/output and USB communication.
- VIN information necessary for the Telematics service is memorized.
- It is connected to the air bag diagnosis sensor unit via CAN communication. TCU performs an emergency report when the air bag is inflated.
- Audio signals received during SOS/Infiniti Connection™ Response Specialists call are transmitted from TCU
 to each speaker via the display control unit and AV control unit.
- During the communication with Infiniti Connection™ Data Center and Infiniti Connection™ Response Center, TCU prohibit the use of Bluetooth® hands-free phone.

Telematics Antenna

- Telematics antenna consists of TEL antenna and GPS antenna.
- It is installed in the instrument panel.



TEL ANTENNA

- Data communications signals and voice signals are transmitted/received.
- Power is supplied with TCU activated.

GPS ANTENNA

GPS signal is received and transmitted to TCU.

NOTE:

The placement of an object on the instrument panel may cause desensitization in the receiver sensitivity.

FEEDER LAYOUT

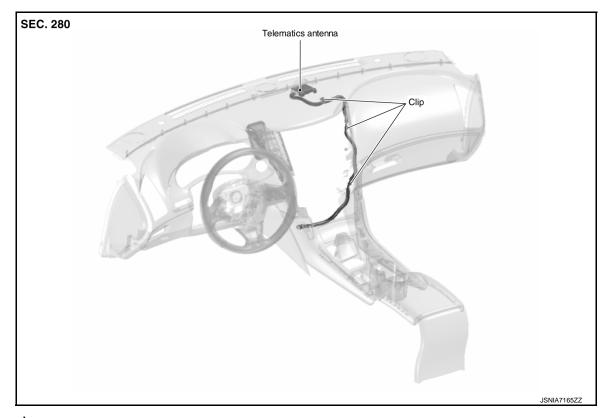
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Microphone INFOID:000000013498047

Microphone is installed on the map lamp assembly.

NOTE:

The microphone is integrated with the front microphone.

- (1) Microphone (for hands-free phone/voice recognition)
- (2) Front microphone (for active noise cancellation)
- The microphone is used for hands-free phone and voice recognition function in addition to the Infiniti Connection™ Response service of Infiniti Connection™.
- TCU supplies power to the microphone.
- An audio signal during speech is transmitted to TCU.

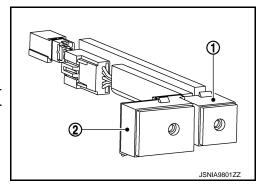
Telematics Switch

- · The Telematics switch is located on the map lamp assembly.
- The Telematics switch is connected to TCU and transmits an operation signal.
- The state of LED (ON/Blink/OFF) shows the status of SOS call.

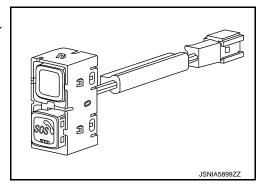
LED ON :SOS Call available

LED Blink :SOS Call in communication

LED OFF :Out of service area or system error



INFOID:0000000013498048



SYSTEM

TELEMATICS SYSTEM

TELEMATICS SYSTEM: System Description

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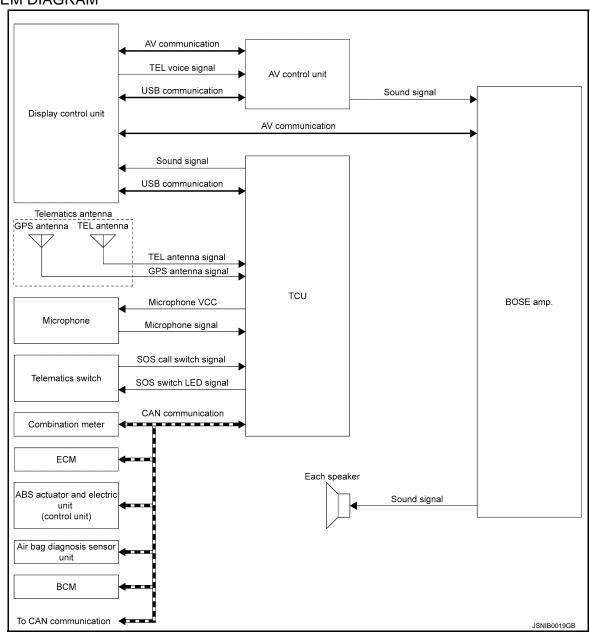
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SYSTEM DIAGRAM



TCU Input Signal (CAN Communication)

Transmit unit	Signal name	
ABS actuator and electric unit (control unit)	ABS warning lamp signal	
ABS actuator and electric unit (control unit)	VDC warning lamp signal	
Combination meter	Brake warning lamp signal	
Airbag diagnosis sensor unit	Car crash information signal	
	Door lock status signal	
BCM	Trunk switch signal	
	Oil pressure switch signal	

[TELEMATICS SYSTEM]

Transmit unit	Signal name
ECM	Malfunctioning indicator lamp signal
LOIVI	Engine status signal

DESCRIPTION

The adoption of the Telematics system allows the provision of information and services in real time for safe and pleasant driving.

- TCU (Telematics Communication Unit) equipped with a radio communication terminal communicates with the information center (Infiniti Connection™ Data Center) via radio waves for receiving Infiniti Connection™ services.
- In addition to the services received while driving, various kinds of vehicle information can be obtained via Infiniti Connection™ Data Center by using cell phone or personal computer.

The telematics system interacts with the Infiniti Connection™ Data Center using GPS and GSM/GPRS technologies. The telematics communication unit (TCU) can send messages to and receive commands from the Infiniti Connection™ Data Center. This allows the Infiniti Connection™ Data Center to monitor the vehicle and obtain actual position coordinates and automatically detected events, as well as initiate certain services from outside the vehicle. In addition, the vehicle operator can initiate services from inside the vehicle.

NOTE:

For additional information on the Telematics system, refer to the NAVIGATION SYSTEM OWNER'S MANUAL.

Infiniti Connection™ SERVICE

The user can transmit/receive various kinds of information via the information centers (Infiniti Connection™ Data Center).

- The available services are: Information service, Infiniti Connection™ Response service, shortest route search, safety & security service, etc. In addition, can remote-control a vehicle than a cell-phone using Infiniti Connection™ SERVICE. The details of the operation, refer to the following.
- Remote door lock/unlock function: <u>DLK-16</u>, "System Description"
- Remote panic alarm function : <u>SEC-27</u>, "VEHICLE SECURITY SYSTEM : System Description"
- Remote engine start function: SEC-27, "VEHICLE SECURITY SYSTEM: System Description"
- The user can access Infiniti Connection™ user's homepage and check ECO drive information by using cell
 phone or personal computer.

[TELEMATICS SYSTEM]

TELEMATICS SYSTEM: Circuit Diagram

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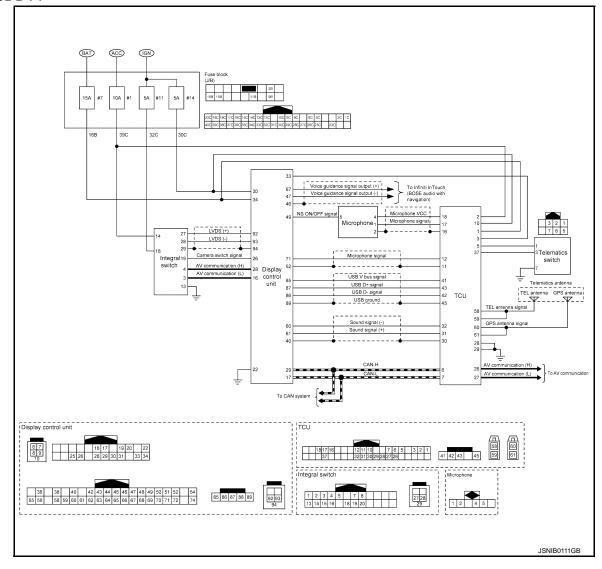
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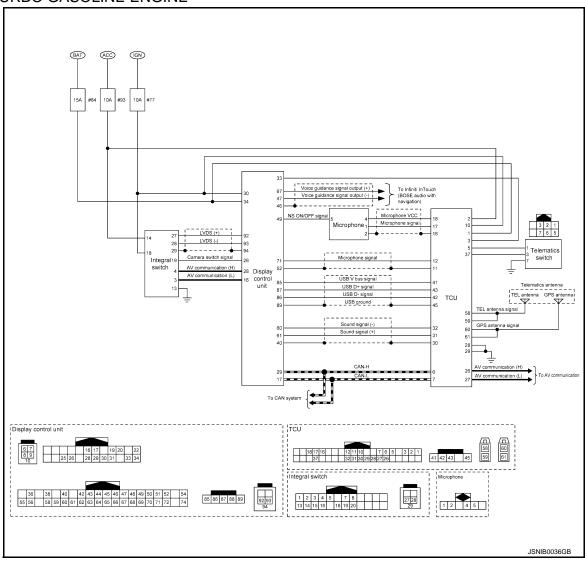


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2.0L TURBO GASOLINE ENGINE



TELEMATICS SYSTEM: Fail-safe

INFOID:0000000013498051

If a malfunction occurs in the telematics system, TCU performs fail-safe activation according to the detected malfunction.

Detection item	Telematics system operation in fail-safe mode	DTC
Air-bag connection	Some telematics system does not function. Inform a INFINITI CONNECTION data center about abnormality.	U1A10
CAN communication	Telematics system does not function. Inform a INFINITI CONNECTION data center about abnormality.	U1000
AV communication	Some telematics system does not function. Inform a INFINITI CONNECTION data center about abnormality.	B13E1
TEL antenna	Telematics switch LED indicator turn OFF. (LED indicator turns ON 10 times when push the SOS call switch.) When operated a telematics system, inform that cannot be connected to the INFINITI CONNECTION data center.	U1A06
GPS antenna	Telematics system cannot send correct positional information. Inform a INFINITI CONNECTION data center about abnormality.	U1A09 U1A0A
USB communication	Telematics system does not function. Inform a INFINITI CONNECTION data center about abnormality.	B13D9

SYSTEM

< SYSTEM DESCRIPTION >

[TELEMATICS SYSTEM]

Detection item	Telematics system operation in fail-safe mode	DTC
TCU	Telematics system function stops.	B1310 B130D U1010 U1A01
	 Telematics system function stops. When operated a telematics system, inform that cannot be connected to the INFINITI CONNECTION data center . 	U1A03 U1A11
Telematics switch (SOS call switch)	 Telematics system does not function. (Only SOS call does not operate.) Telematics switch LED indicator turn OFF. 	B2E33 U1A0E
Microphone	Transmit an own vehicle position to the INFINITI CONNECTION data center. Inform a INFINITI CONNECTION data center about abnormality.	U1A0B U1A0C
VIN	Telematics service does not function.	U1A04

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HANDLING PRECAUTION

< SYSTEM DESCRIPTION >

[TELEMATICS SYSTEM]

HANDLING PRECAUTION

Telematics INFOID:000000013498052

- In the following cases, no Infiniti Connection™ services are available.
- When the user has not subscribed to the service.
- When the vehicle moves out of the radio receiving zone
- When the radio wave reception environment is not suitable to data communication.
- When the vehicle is in a location that may block radio waves such as in an underground parking lot, behind a building, and in mountainous areas.
- Because the voice exchange with the Infiniti Connection™ data center uses the data communication mode, the service area may be narrower and the connection availability may be worse than the normal telephone system.
- Communication and calls to the Infiniti Connection™ data center require additional charges.
- If the vehicle is outside the communication area of TCU or the radio wave reception condition is poor, the connection to the Infiniti Connection™ data center may not be available or interrupted.
- If the communication is interrupted during a data download through any of the available services, the data must be downloaded again from the beginning.
- When transferring your vehicle, always resign from your membership. For details about the cancellation procedure, contact the Infiniti Connection™ customer center.

DIAGNOSIS SYSTEM (TCU)

< SYSTEM DESCRIPTION >

[TELEMATICS SYSTEM]

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DIAGNOSIS SYSTEM (TCU)

CONSULT Function

APPLICATION ITEM

CONSULT performs the following items by communication with TCU:

Diagnosis mode	Description
Self-Diagnosis Result	Performs the diagnosis of TCU and displays the current and past malfunctions collectively.
Data Monitor	The diagnosis of the vehicle signal that is input to TCU can be performed.
Work support	Performs TCU activation setting and center connection setting.
ECU identification	Checks TCU part number and various ID numbers.
Configuration	 The vehicle specification that is written in TCU can be displayed or stored The vehicle specification can be written when TCU is replaced

SELF-DIAGNOSIS RESULT

Refer to AV-714. "DTC Index".

- In CONSULT self-diagnosis, the self-diagnosis results and error history are displayed collectively.
- The current malfunction indicates "0". The counter increases by 1 if the condition is normal at the next power switch ON cycle.

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.

Display item	Display	Condition	Note
HF TYPE	NO BT	_	
AUDIO UNIT TYPE	NAVI	_	
CALL SWITCH TYPE	SOS/OP	_	
SPEAKER TYPE	INDRCT	_	
ZONE	USA/CAN	_	
CHANNEL	INFINITI	_	Indicates state of configuration result. NOTE:
CAN COMM	GEN.3	_	This item is displayed, but not used.
AV COMM	ENABLE/ DISABLE	_	
K-LINE	ENABLE/ DISABLE	_	
VEHICLE TYPE	ENG	_	
	TYPE 1		
ECUO CANCEL	TYPE 2	— This item is displayed, but cannot	This term is displayed but appeal by manifested
ECHO CANCEL	TYPE 3		— This item is displayed, but cannot be moni
	TYPE 4		
	TYPE 1		
NOISE CANCEL	TYPE 2		This item is displayed but separat be assetted a
NOISE CANCEL	TYPE 3	— This item is displayed, but cannot be mo	This item is displayed, but cannot be monitored.
	TYPE 4		
	14DAYS	Set at 14 days (default)	
TCU STANDBY TIME	2DAYS	Set at 2 days	Set value for continued operation time to control
TOU STAINUDT TIME	30DAYS	Set at 30 days	battery consumption
	NON	No setting	

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DIAGNOSIS SYSTEM (TCU)

< SYSTEM DESCRIPTION >

[TELEMATICS SYSTEM]

Display item	Display	Condition	Note
SENSOR ANGLE X	_	_	
SENSOR ANGLE Y	_	_	
SENSOR ANGLE Z	_	_	
SVTB	_	_	Indicates state of configuration result.
REMOTE DOOR LOCK	ENABLE/ DISABLE	_	NOTE: This item is displayed, but not used.
REMOTE HORN & LAMP	ENABLE/ DISABLE	_	
REMOTE START	ENABLE/ DISABLE	_	
NAD OUTPUT STATUS	On	When TCU activation is ON	NAD: Abbreviation of Network Access Device.
NAD OUTPUT STATUS	Off	When TCU activation is OFF	ON/OFF setting of radio wave
ACN COMM SEQUENCE LOG	_	_	_
SOS COMM SEQUENCE LOG	_	_	_
SOS SWITCH	On	Telematics switch is ON	
303 SWITCH	Off	Telematics switch is OFF	_

WORK SUPPORT

Performs TCU activation setting and center connection setting.

Item name	Description
SAVE VIN DATA	The VIN data saved in TCU is stored in CONSULT.
TCU ACTIVATE SETTING	TCU ON/OFF setting is available.
WRITE VIN (SAVED DATA)	Write VIN data stored by "SAVE VIN DATA" in work support mode to TCU.
WRITE VIN (MANUAL INPUT)	Write VIN data in TCU. (MANUAL)

ECU IDENTIFICATION

Displays TCU part number and various ID numbers.

Display items	Description	
ECU PART NUMBER	Displays TCU part number.	
UNIT ID	Displays display control unit ID number.	
TCU ID	Displays TCU ID number.	
SIM ID	Displays ICC ID of SIM card.	
V.I.N	Displays the vehicle identification number stored in TCU.	

CONFIGURATION

Configuration includes functions as follows.

Fur	ection	Description
Read/Write Configuration	Before ECU Replacement	Allows the reading of vehicle specification written in TCU to store the specification in CONSULT.
Nead/Write Corniguration	After ECU Replacement	Allows the writing of the vehicle information stored in CONSULT into the TCU.
Manual Configuration		Allows the writing of the vehicle specification into the TCU by hand.

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ECU DIAGNOSIS INFORMATION

TCU

Reference Value

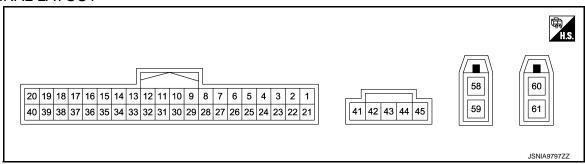
VALUES ON THE DIAGNOSIS TOOL

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
HF TYPE	Ignition switch ON	NO BT
AUDIO UNIT TYPE	Ignition switch ON	NAVI
CALL SWITCH TYPE	Ignition switch ON	SOS
SPEAKER TYPE	Ignition switch ON	INDRCT
ZONE	Ignition quitab ON	USA
ZONE	Ignition switch ON	CAN
CHANNEL	Ignition switch ON	INFINITI
CAN COMM	Ignition switch ON	GEN.3
AV COMM	Ignition switch ON	ENABLE
K-LINE	Ignition switch ON	DISABLE
VEHICLE TYPE	Ignition switch ON	ENG
ECHO CANCEL	Ignition switch ON	TYPE2
NOISE CANCEL	Ignition switch ON	TYPE2
	Set at 14 days (default)	14DAYS
TCU STANDBY TIME	Set at 2 days	2DAYS
TCO STANDBY TIME	Set at 30 days	30DAYS
	No setting	NON
SENSOR ANGLE X	Ignition switch ON	0.0
SENSOR ANGLE Y	Ignition switch ON	0.0
SENSOR ANGLE Z	Ignition switch ON	0.0
SVTB	Ignition switch ON	DISABLE
REMOTE DOOR LOCK	Ignition switch ON	DISABLE
REMOTE HORN & LAMP	Ignition switch ON	DISABLE
REMOTE START	Ignition switch ON	DISABLE
NAD OUTPUT STATUS	When TCU activation is ON	On
INAD OUTPUT STATUS	When TCU activation is OFF	Off
ACN COMM SEQUENCE LOG	_	_
SOS COMM SEQUENCE LOG	-	_
SOS SW	Press telematics switch	On
303 344	Other than the above	Off

TERMINAL LAYOUT



PHYSICAL VALUES

	minal color)	Description		O an alistica	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
1 (Y)	29 (B)	Battery power supply	Input	[Ignition switch OFF]	Battery Voltage
2 (SB) ^{*1} (V) ^{*2}	29 (B)	ACC power supply	Input	[Ignition switch ACC]	12.0 V
3 (SB)	29 (B)	ACC out put	Output	[Ignition switch ACC]	12.0 V
5	28	SOS switch LED sig-	Input	[Ignition switch ACC] • When not illuminated LED lamp of SOS switch	12.0 V
(BR)	(B)	nal	mput	[Ignition switch ACC] • When illuminated LED lamp of SOS switch	0 V
6 (L)	_	CAN-H	Input/ Output	_	_
7 (P)	_	CAN-L	Input/ Output	_	_
10 (W) ^{*1} (R) ^{*2}	29 (B)	Ignition signal	Input	[Ignition switch ON]	12.0 V
11	_	Microphone signal ground	_	_	_
12 (R)	11	Microphone signal	Output	[Ignition switch ACC] • When inputting interior sound	(V) 1 0 -1 + + 2ms SKIB3609E
16	_	Shield	_	_	_
17 (G)	16	Microphone signal	Input	[Ignition switch ACC] • When inputting interior sound	(V) 1 0 -1 *** 2ms SKIB3609E

[TELEMATICS SYSTEM]

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	minal color)	Description		Condition	Reference value
+		Signal name	Input/ Output	Condition	(Approx.)
18 (L)	16	Microphone VCC	Input	[Ignition switch ACC]	5.0 V
26 (SB)		AV communication (H)	Input/ Output	_	_
27 (LG)		AV communication (L)	Input/ Output		
28 (B)	Ground	Ground	_	[Ignition switch ON]	0 V
29 (B)	Ground	Ground		[Ignition switch ON]	0 V
30	_	Shield	_	_	_
31 (B)	32 (W)	Sound signal (+)	Output	[Ignition switch ACC] • When inputting interior sound	(V) 1 0 -1 +2ms SKIB3609E
32 (W)	_	Sound signal (-)	'	_	_
37 (G)	28 (B)	SOS call switch signal	Input	Ignition switch ACC When pressing SOS switch Ignition switch ACC Except for above	0 V 5.0 V
41 (R)	_	USB V BUS signal	-	_	_
42 (P)	_	USB D- signal	-	_	_
43 (W)	_	USB D+ signal	_	_	_
45	_ <u></u>	USB ground	_		
58	Ground	TEL antenna signal	Input	Not connected TEL antenna connector.	5.0 V
59	_	Shield	_	_	_
60	Ground	GPS antenna signal	Input	Not connected GPS antenna connector.	5.0 V
61		Shield	_	_	_

^{*1:} For 2.0L turbo gasoline engine

Fail-safe INFOID:000000013498055

If a malfunction occurs in the telematics system, TCU performs fail-safe activation according to the detected malfunction.

Detection item	Telematics system operation in fail-safe mode	DTC
Air-bag connection	Some telematics system does not function. Inform a INFINITI CONNECTION data center about abnormality.	U1A10
CAN communication	Telematics system does not function. Inform a INFINITI CONNECTION data center about abnormality.	U1000

^{*2:} Except for 2.0L turbo gasoline engine

[TELEMATICS SYSTEM]

Detection item	Telematics system operation in fail-safe mode	DTC
AV communication	Some telematics system does not function. Inform a INFINITI CONNECTION data center about abnormality.	B13E1
TEL antenna	Telematics switch LED indicator turn OFF. (LED indicator turns ON 10 times when push the SOS call switch.) When operated a telematics system, inform that cannot be connected to the INFINITI CONNECTION data center.	U1A06
GPS antenna	Telematics system cannot send correct positional information. Inform a INFINITI CONNECTION data center about abnormality.	U1A09 U1A0A
USB communication	Telematics system does not function. Inform a INFINITI CONNECTION data center about abnormality.	B13D9
TCU	Telematics system function stops.	B1310 B130D U1010 U1A01
	Telematics system function stops. When operated a telematics system, inform that cannot be connected to the INFINITI CONNECTION data center.	U1A03 U1A11
Telematics switch (SOS call switch)	Telematics system does not function. (Only SOS call does not operate.) Telematics switch LED indicator turn OFF.	B2E33 U1A0E
Microphone	Transmit an own vehicle position to the INFINITI CONNECTION data center. Inform a INFINITI CONNECTION data center about abnormality.	U1A0B U1A0C
VIN	Telematics service does not function.	U1A04

DTC Inspection Priority Chart

INFOID:0000000013498056

If multiple DTCs are detected simultaneously, check them one by one depending on the following DTC inspection priority chart.

Priority	Detected items (DTC)
1	U1A04: VIN UNFINISHED
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	 B130D: TEL LINE OUT ERROR B1310: TCU TEMPERATURE ERROR B13D9: USB CONNECTION B13E1: CAN COMMUNICATION B2E33: ECALL BUTTON U1A00: ACC NO CONN U1A01: INTERNAL ERROR (TCU) U1A03: SIM CARD U1A06: TEL ANTENNA U1A09: GPS ANTENNA CONN U1A0A: GPS MODULE COMM U1A0B: MIC IN CONN U1A0C: MIC OUT CONN U1A0C: MIC OUT CONN U1A10: AIRBAG SIGNAL U1A11: TEL MUTE OUTPUT SIGNAL NO CONN

DTC Index

DTC	Display contents of CONSULT	Reference
B130D	TEL LINE OUT ERROR	AV-740, "DTC Description"
B1310	TCU TEMPERATURE ERROR	AV-742, "DTC Description"
B13D9	USB CONNECTION	AV-743, "DTC Description"
B13E1	CAN COMMUNICATION	AV-744, "DTC Description"

TCU

< ECU DIAGNOSIS INFORMATION >

[TELEMATICS SYSTEM]

DTC	Display contents of CONSULT	Reference
B2E33	ECALL BUTTON	AV-745, "DTC Description"
U1000	CAN COMM CIRCUIT	AV-747, "DTC Description"
U1010	CONTROL UNIT (CAN)	AV-748, "DTC Description"
U1A00	ACC NO CONN	AV-749, "DTC Description"
U1A01	INTERNAL ERROR (TCU)	AV-750, "DTC Description"
U1A03	SIM CARD	AV-751, "DTC Description"
U1A04	VIN UNFINISHED	AV-752, "DTC Description"
U1A06	TEL ANTENNA	AV-753, "DTC Description"
U1A09	GPS ANTENNA CONN	AV-754, "DTC Description"
U1A0A	GPS MODULE COMM	AV-755, "DTC Description"
U1A0B	MIC IN CONN	AV-756, "DTC Description"
U1A0C	MIC OUT CONN	AV-758, "DTC Description"
U1A0E	SOS SWITCH ON STUCK	AV-760, "DTC Description"
U1A10	AIR BAG SIGNAL	AV-762, "DTC Description"
U1A11	TEL MUTE OUTPUT SIGNAL NO CONN	AV-763, "DTC Description"

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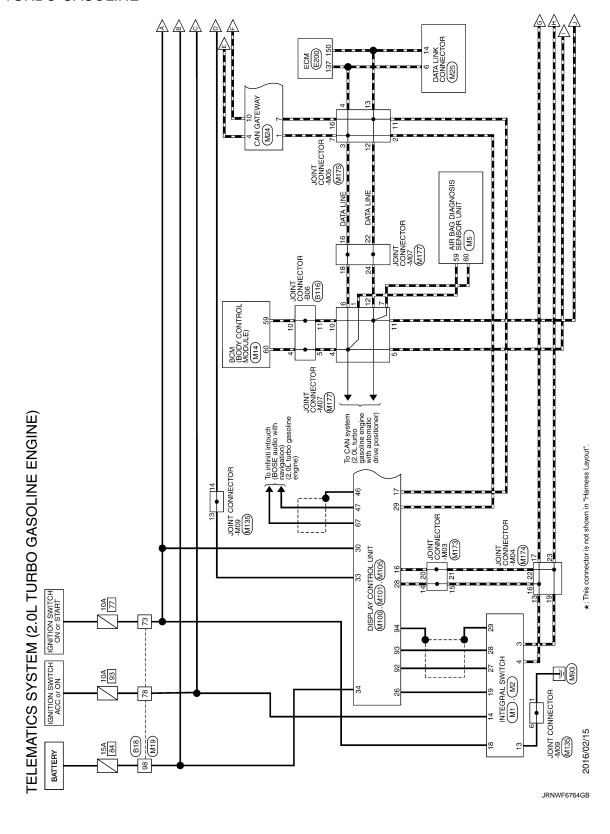
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WIRING DIAGRAM

TELEMATICS SYSTEM

Wiring Diagram

2.0L TURBO GASOLINE



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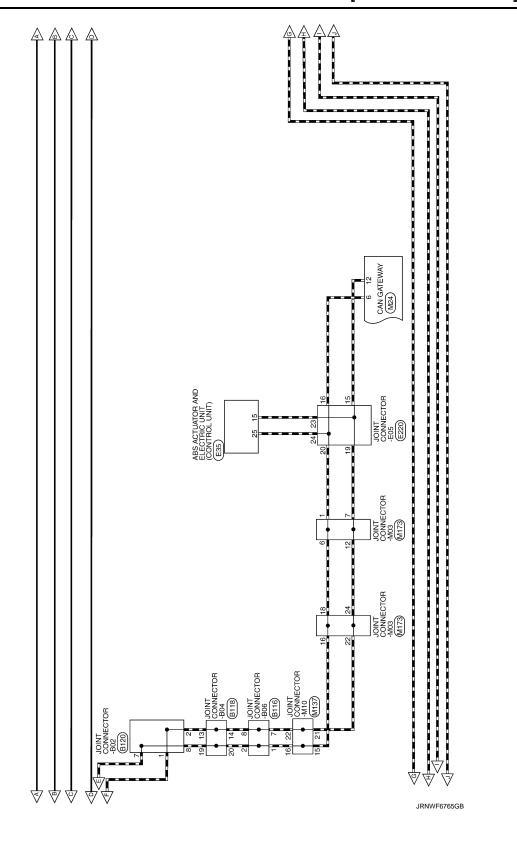
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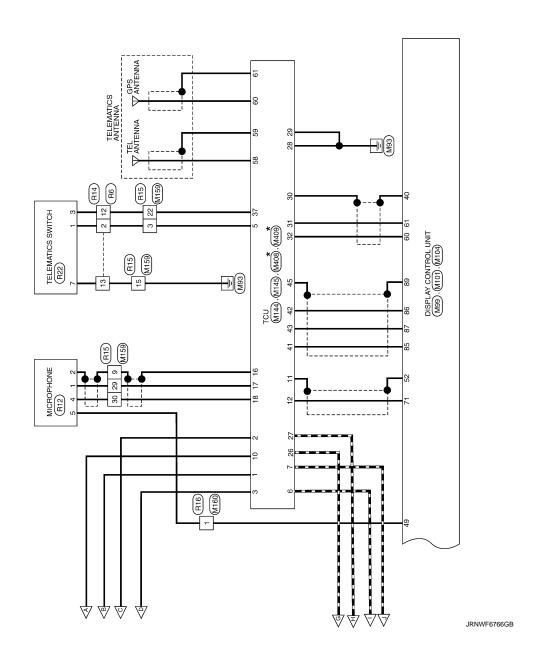
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Revision: November 2016 **AV-717** 2016 Q50



Revision: November 2016

TELEMATI	TELEMATICS SYSTEM (2.0L TURBO GAS	O GASOLINE ENGINE		IE)	[Ī	
	818	37	SB		86	BR	 [With VR30 engine and with BOSE system] 	22	Ь	
Connector Name	WIRE TO WIRE	38	9 6		86	>	- [Except with VR30 engine and with BOSE system]	23	ء ء	Control Agency
Connector Type	THOOPING TANK	40	- S		_			24	۰ >	- [With VK30 engine]
Л		45	88		Connector No.	r No.	8116	7	•	Constitution of the consti
		43	BG		- American	Manage	200 GOTWINGO THIO			
		44	BG		Connecto	r Name	JOINT CONNECTOR-BUB	Connector No.		B118
		46	æ		Connector Type	r Type	24342_4GA2A	Connector Name		DOUNT CONNECTOR BOX
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20	Μ		ģ					
		51	SB		彦			Connector Type		24342_4GA2A
		22	> 9				4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Q.		
- 1		23	9				11 10 9 8 7	李		
Color Of	If Signal Name [Specification]	54	œ a				24 23 22 21 20 19	HS		6 5 4 3 2 1 1 10 9 8 7 7
1.		22	. *							17 16 15 14 13
. 0		28	; >		_					23 22 21 20
Ι.		29	ű		Terminal	Color Of				
9		09	o		ģ	Wire	Signal Name [Specification]			
L		61	o		-	_		Terminal	Color Of	4
œ		62	BG		2	_		No.	Wire	olgnal Name [opecification]
L		63	BR		3	1		1	91	- [With VR30 engine]
9		64	>		4	7		1	SHIELD	- [With 2.0L turbo gasoline engine]
g		99	œ		5	7		2	91	- [With VR30 engine]
88		70	œ		٥	_		2	SHIELD	- [With 2.0L turbo gasoline engine]
9		71	^		7	æ		9	SHIELD	
8		72	<u>_</u>			~	- [With Gateway]	4	97	- [With VR30 engine]
		73	۸		∞	>	- [Without Gateway]	4	SHIELD	- [With 2.0L turbo gasoline engine]
		74	_		6	æ	- [With Gateway]	2	91	- [With VR30 engine]
		75	В	- [Without paddle shift]	6	۸	- [Without Gateway]	2	SHIELD	- [With 2.0L turbo gasoline engine]
		75	>	- [With paddle shift]	10	ж	- [With VR30 engine]	9	91	- [With VR30 engine]
88		76	æ		10	>	 [With 2.0L turbo gasoline engine] 	9	SHIELD	 [With 2.0L turbo gasoline engine]
≥		77	В		11	>		7	œ	- [Color of wire differs depending on production]
		78	SB		12	۵	- [With Gateway]	7	>	- [Color of wire differs depending on production]
		79	۸	- [With VR30 engine]	12	В	- [Without Gateway]	80	FIG	- [With 2.0L turbo gasoline engine]
œ	- [With 2.0L turbo gasoline engine]	79	Μ	- [With 2.0L turbo gasoline engine]	13	SHIELD		80	В	- [With VR30 engine and without paddle shift]
>	- [With VR30 engine]	81	В	-	14	SHIELD		80	۸	 [With VR30 engine and with paddle shift]
۵.	- [With 2.0L turbo gasoline engine and without gateway]	82	æ		15	8	- [With 2.0L turbo gasoline engine]	6	97	- [With 2.0L turbo gasoline engine]
>	- [With 2.0L turbo gasoline engine and with gateway]	83	BG		15	SHIELD	- [With VR30 engine]	6	В	- [With VR30 engine and without paddle shift]
≥	- [With VR30 engine]	84	1	•	16	٦	- [With VR30 engine]	6	۸	- [With VR30 engine and with paddle shift]
9		85	×	- [Without paddle shift]	16	SHIELD	- [With 2.0L turbo gasoline engine]	10	91	- [With 2.0L turbo gasoline engine]
œ		85	>	- [With paddle shift]	17	-	- [With VR30 engine]	10	SHIELD	- [With VR30 engine]
~		98	œ		17	SHIELD	- [With 2.0L turbo gasoline engine]	11	91	- [With 2.0L turbo gasoline engine]
æ	- [With VR30 engine]	88	o		18	7	- [With VR30 engine]	11	SHIELD	- [With VR30 engine]
器	- [With 2.0L turbo gasoline engine]	88	>	- [With 2.0L turbo gasoline engine]	18	SHIELD	- [With 2.0L turbo gasoline engine]	12	91	- [With 2.0L turbo gasoline engine]
	1	68	^	- [With VR30 engine]	19	_	- [With 2.0L turbo gasoline engine]	12	SHIELD	- [With VR30 engine]
8		91	æ		19	SHIELD	- [With VR30 engine]	13	_	- [With VR30 engine]
l٥		94	ĕ		20	_	- [With 2.0L turbo gasoline engine]	13	۵	- [With 2.0L turbo gasoline engine and without gateway]
ı		96	>		20	SHIELD	- [With VR30 engine]	13	æ	- [With 2.0L turbo gasoline engine and with gateway]
≥		97	>		21	_		14	-	- [With VR30 engine]
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	æ	BR	8	В	>	Ь	Μ	SB	91	Ь	9	BR	BR	BR	BG	Μ	٨	>	91	ا عد	~	≥	>	BG	9	9	BG	BR	Υ	ж	97	Μ	В	Μ	7	≥	BR	В	SB	Ь	>	80	œ	88	_	*	8	9	^	Μ
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	9	SB	BR	BG	>	>	97	٦					,									ĺ	Color Of	Wire	٨	9	SB	BR	γ	В	W	۸	98	BR	ΡĮ	g	В	٦	۸	W	BR	×	SB	~	œ	>	۵	W	9	Я
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JE)	AS1 (-)	AS2 (+)	AS2 (-)	ECZS+	ECZS-	ACT_VENT+	ACT_VENT-	GND	AIRBAG W/L		A/B_OFF_IND	SATELLITE RH2 (+)	SIDE_SENS_RH2-	SIDE_SENS_LH2+	SIDE_SENS_LH2-	IVCS	CAN-H	CAN-L			M14	BCM (BODY CONTROL MODULE)		TH40FB-NH				1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	80 73 73 75 75 77 70 89 68 67 66 65 84 62 61				Sional Name (Specification)	orginal ivaline [obscrincation]	PUSH-BTN IGN SW ILL PWR	DONGLE LINK	COMM LINE	RAIN SENSOR	CAN-L	CAN-H	REAR WINDOW DEF RLY CONT	STARTER RLY CONT	I-KEY WARN BUZZER	OUTS HD LAMP CONT	BLOWER FAN RLY CONT [With VR30 engine]	BLOWER FAN RLY CONT [With 2.0L turbo gasoline engine]	IGN RLYAY (F/B) CONT	DIMMER	A/T SHIFT SELECT PWR SPLY	IGN RLYAY (IPDM E/R) CONT
NGIN	٨/ه	5/A	>	>	BR	Y/R	8/A	SHIELD	۸	9	GR	9	ч	^	٦	PT	٦	Ь			No.	r Name		r Type									Color Of	Wire	ď	g	>	ч	Ь	1	g	œ	>		æ	>	M/B	œ	GR	В
INE	7	œ	6	18	19	70	21	22	23	24	25	51	25	53	54	22	29	9			Connector No.	Connector Name		Connector Type	4		Ę	į					Terminal	No.	48	52	54	22	59	09	61	62	64	99	99	99	29	89	69	70
TELEMATICS SYSTEM (2.0L TURBO GASOLINE ENGINE)			ACC [For VR30 engine]	1	3 DISK EJECT SIGNAL GROUND] N9I	R CAMERA SWITCH SIGNAL	3 AIR BAG INDICATOR OFF SIGNAL			M2	INTEGRAL SWITCH		Tyco_1554987-6		Ę	Ē	000		53			r Of Siepal Name [Specification]				SHIELD SHIELD			M5	AIR BAG DIAGNOSIS SENSOR LINIT		NH28FY-EX			ľ	Y Y	19 52 21 54 23 24 22	20 53 60 59 25	0 00 00 00 00			olghai ivame (opecification)					DR2 (+)	R AS1 (+)
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TELEMAT	TELEMATICS SYSTEM (2.0L TURBO GASOLINE ENGINE	SOLINE	ENG	INE)				-	
		Termina	Terminal Color Of	Of Signal Name (Specification)	Connector No.	M100	1	M	TEL VOICE SIGNAL (-)
\dashv		No.	Wire		Connector Name	DISPLAY CONTROL LINIT	46	SHIELD	SHIELD
M 96		33	PI	M_CAN_L			47	В	VOICE GUIDANCE SIGNAL OUTPUT (-)
۸ / 6		4	8	EARTH	Connector Type	TH24FW-NH	48	8	VOICE GUIDANCE SIGNAL INPUT (-)
98 BR	- [With VR30 engine and with BOSE system]	2	8	EARTH	-		49	W	NS ON/OFF SIGNAL
γ 86	- [Except with VR30 engine and with BOSE system]	9	1	CAN-H			20	œ	MICROPHONE SIGNAL GND
		7	>	KLINE [With 2.0L turbo gasoline engine]	•		51	SHIELD	SHIELD
		7	3	L	2	1617 1900 29	52	SHIELD	MICROPHONE SIGNAL GND
Connector No.	M24	00	>			00 00 00 00	T	W	CAMERA GND
	П	11	88	M CAN H		16066202	t	SHIELD	SHIELD
Connector Name	CAN GAIEWAY	12	œ	CAN-L			26	BR	COMPOSITE IMAGE SIGNAL (+)
Connector Type	TH12FW-NH	13	-	CAN-H			28	8	CAMERA IMAGE SIGNAL
[14	۵	CAN-I.	Terminal Color Of	(09	W	SOUND SIGNAL (-)
E		16	^	POWER	No. Wire	oignal Natine (operineation)	61	В	SOUND SIGNAL (+)
2	[16 16	AV COMM (L)	62	×	SOUND SIGNAL RH (+)
ė	2 2				17 P	CAN-L	63	SHIELD	SHIELD
) ; t ;	Connector No.	or No.	M99	19 R	DIMMER SIGNAL	64	>	SOUND SIGNAL LH (+)
	21 11 01 8 17	į		Г	20 BR	REVERSE SIGNAL	65	8	TEL VOICE SIGNAL (+)
		Connecto	Connector Name	DISPLAY CON IROL UNII	22 B	GND	Н	SHIELD	SHIELD
		Connector Type	or Type	Tvco 1554987-4	26 BR	CAMERA SWITCH SIGNAL	-67	ŋ	VOICE GUIDANCE SIGNAL OUTPUT (+)
Terminal Color Of						AV COMM (H)	89	W	VOICE GUIDANCE SIGNAL INPUT (+)
No. Wire	Signal Name [Specification]	1			┞	CAN-H	t	SHIELD	SHIELD
1	CAN-H (CAN COMMUNICATION CIRCUIT 1)	Aller			30 R	IGN [For VR30 engine]	t	g	MICROPHONE SIGNAL
W .	╀	N .		9 2	ł	IGN (For 2.0L turbo gasoline engine)	7.1	T	MICROPHONE SIGNAL IWithout telematics system
ŀ	AN-H			6 8	ł	VEHICLE OPERD SIGNAL (8-DILISE)	7.1	t	MICROPHONE SIGNAL (With telematics system)
	GROUND			<u></u>	ľ	ACC Except for VB30 engine and with ISS1	2,2	T	MICROPHONE VCC
+	CAN-H (CAN COMMUNICATION CIRCUIT 2)				+	ACC [For V830 engine and with ISS]	74		CAMERA POWER SUPPLY
7 P	CAN-L (CAN COMMUNICATION CIRCUIT 1)				34 ×	BAT			
6	Ð	Terminal	Il Color Of						
Α 6	Т	No.	Wire	e Signal Name [Specification]			Connector No.	l	M104
10 R	CAN-L (CAN COMMUNICATION CIRCUIT 2)	9	٥	USB GROUND	Connector No.	M101			
11 8	GROUND	7	>	USB V BUS SIGNAL		Live of the second	Connector Name		DISPLAY CONTROL UNIT
12 R	CAN-L (CAN COMMUNICATION CIRCUIT 2)	00	~	USB D- SIGNAL	Connector Name	DISPLAY CONTROL UNIT	Connector Type	Г	USCAR30-MC-F
		6	٦	USB D+ SIGNAL	Connector Type	TH40FW-NH			
		10	SHIELD				Œ		
Connector No.	M25				Œ				
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COIIIECTO MAINE					2				82 86 87
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Ġ.	11 12 13 14 16				Terminal Color Of	3	No.	Wire	olgnai Name [opecification]
][Signal Name [Specification]	82	~	USB V BUS SIGNAL
	3 4 5 6 7 8				t	COMPOSITE IMAGE SIGNAL (1)	98		IISB D. SIGNAL
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TELEMA.	MATICS	TELEMATICS SYSTEM (2.0L TURBO GASOLINE ENGINE)	OLINE	ENGIN	VE) - [With 2.0L turbo gasoline engine]	Connec	Connector No.	M144	Connector No.	M145
Connector Name		DISPLAY CONTROL UNIT	17	> 88	- [With VR30 engine] - [With 2.0L turbo gasoline engine]	Connec	Je	TCU	Connector Name	TCU
Connector Type	П	Tyco_1554987-6	18	>	- [With VR30 engine]	Connec	Connector Type	TH40FB-NH	Connector Type	USCAR30-MC-F
E			20 21	SHIELD		Œ			匮	
T.S.		92 93	22	SHIELD		H.S.		18 17 16	S.	41 42 43 45
		94	24	_						
Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	tor No.	M137	Terminal No.	hal Color Of Wire	Signal Name [Specification]	Terminal Color Of No. Wire	Of Signal Name [Specification]
92	W	LVDS (+)	Connec	Connector Name	JOINT CONNECTOR-MID	1	>	BAT	Н	ם
93	a :	(·) SOAT	Connec	Connector Type	24342_4GA2A	7	SB :	ACC [For 2.0L turbo gasoline engine]	+	
94	SHELD	SHIELD	Œ			3 8	> 88	ACC [For VR30 engine] ACC OUTPUT	43 W	USB D+ SIGNAL LD USB GND
N and a second		2000	SI		5 4 3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ı,	BR .	SOS SWITCH LED SIGNAL		
COLLECTO	Τ	CCTIA			16 15 14 13	7 0	۵ د	CAN-H CAN-L	Connector No.	M159
Connector Name		JOIN I CONNECTOR-MU9			22 21 20 19	10	æ	IGN [For VR30 engine]	Connector Name	WIRETOWIRE
Connector Type	٦	24342_4GA2A				9	┪	IGN [For 2.0L turbo gasoline engine]		╗
1	_		Terminal	al Color Of		11 22	SHELD	MICROPHONE SIGNAL GND	Connector Type	TH40FW-NH
卖		6543214	Ž		Signal Name [Specification]	4 4	ľ	SHEID	€	
H.S.		11 10 9	H	8		17	t	MICROPHONE SIGNAL		
		18 17 16 15 14 13	2	В		18	1	MICROPHONE VCC	Ċ	23 19 18 17 16 15 14 13 12 11 10 9 8 7 16 15 14 13 12 11
		24 23 22 21 20 19 두	m	60		56	SB	AV COMM (H)		40 38 38 37 38 35 34 33 32 31 30 28 28 27 28 25 24 23 22 21
			4 1	an (27	9 ,	AV COMM (L)		
Torminal	Terminal Color Of		0 1	٥		07 02	٥	GROCIND		
No.	Wire	Signal Name [Specification]	\ cc	۵ ۵		30	SHELD	SHELD	Terminal Color Of	L
1	8		6	8		31	8	SOUND SIGNAL (+)		e Signal Name [Specification]
2	В		10	8		32	W	SOUND SIGNAL (-)	1 6	
3	8	•	11	8	•	37	9	SOS CALL SWITCH SIGNAL	2 B	•
4	60		E1	-					+	
2	œ e	•	14	- -					4 "	
0	9		1 2	-					5 a	DMith MB20 profess between 1991
10	2 9		19	2 د					+	9
11	9		ç						ł	ł
13	8 8	- [With VR30 engine]	21	e ec					9 SHIELD	- 01
13	SB	- [With 2.0L turbo gasoline engine]	22	œ					-	
14	ω	- [With VR30 engine]							11 R	
14	SB.	- [With 2.0L turbo gasoline engine]							\dashv	
15	8	- [With VR30 engine]							13 G	
15	g ;	- [With 2.0L turbo gasoline engine]							+	
16	g >	- [With 2.0L turbo gasoline engine]							+	
16	<u></u>	- [With VR30 engine]							17 B	

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TELEMAT	TELEMATICS SYSTEM (2.0L TURBO GASOLINE ENGINE)	OLINE E	ENGINE	Ξ)				
H		Connector No.	П	M173	Connector No.	M174	Connector No.	. M175
20 BG	Н	Connector Name		JOINT CONNECTOR-M03	Connector Name	JOINT CONNECTOR-M04	Connector Name	me JOINT CONNECTOR-M05
-	 [With VR30 engine and with BOSE system] 		. 1			П		П
+		Connector Type		24342_4GA2A	Connector Type	24342_4GA2A	Connector Type	be NH20FL-DC
+		á	_		á		ą	
		唐			唐		厚	
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26 R		2		11 10 9 8 7	2	11 10 9 8	Ş	8 7 6 5 4 3 2 1
\dashv				17 16 15 14		17 16 15 14		20 19 17 16 15 14 13 12 11 10
28 B				24 23 22 21 20 19		24 23 22 21 20 19		
29 6								
30 L								
31 W		Terminal	Color Of	Signal Name (Specification)	Terminal Color Of	Of Signal Name (Specification)	Terminal	Color Of Signal Name (Specification)
32 W		No.	Wire	ogna ivanie jopecincación	No. Wire		No.	Wire Uspecingation
33 L		1	1		1 1		1	1
36 V		2	7		2 L		2	
38		m	_		3		8	
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Connector No.	M160	7	~					
	_	. 00			· >		. 00	
Connector Name	WIRE TO WIRE	0			>		5	
	10 11110000	n (٠,		+		70	
colliector type	N300FW-C3	e] ;	٠,		OT ;		1 5	
1		= :	× .		+		37	
A ST		12	œ		+		13	- ·
٩		13	SB		+		14	
list]	14	SB		\dashv		15	
	8 7 6 5 4	15	SB		15 SB		16	P - [With VR30 engine]
		16	7	- [With 2.0L turbo gasoline engine]	16 SB		16	R - [With 2.0L turbo gasoline engine]
		16	SB	- [With VR30 engine]	17 SB		17	P - [With VR30 engine]
		17	7	- [With 2.0L turbo gasoline engine]	18 SB		17	R - [With 2.0L turbo gasoline engine]
Terminal Color Of		17	88	- [With VR30 engine]	19 16		19	R - [With VR30 engine and with ISS]
No. Wire	ognal Name [Specification]	18	_	- [With 2.0L turbo gasoline engine]	20 LG		19	W - [Except with VR30 engine and with ISS]
1 W		18	SB	- [With VR30 engine]	21 16		20	R - [With VR30 engine and with ISS]
2 LG		19	æ	- [With VR30 engine]	22 1.6		20	W - [Except with VR30 engine and with ISS]
3 BR		19	91	- [With 2.0L turbo gasoline engine]	23 16			
-		20	BR	- [With VR30 engine]	H			
		20	9	- [With 2.0L turbo gasoline engine]	$\frac{1}{1}$			
ł		21	ä	- (With VR30 engine)				
8		21	91	- [With 2.0L turbo gasoline engine]				
		22	~	- [With 2.0] turbo gasoline engine]				
		22	9	- [With VR30 engine and without ISS]				
		2	>	- [With VR30 engine and with ISS]				
		23		- [With 2 OI turbo gasoline engine]				
		23	SB	- [With VR30 engine and without ISS]				
		23	>	- [With VR30 engine and with ISS]				
		24	œ	- [With 2.0L turbo gasoline engine]				
		24	5	- [With VR30 engine and without ISS]				
		24	>	- [With VR30 engine and with ISS]				

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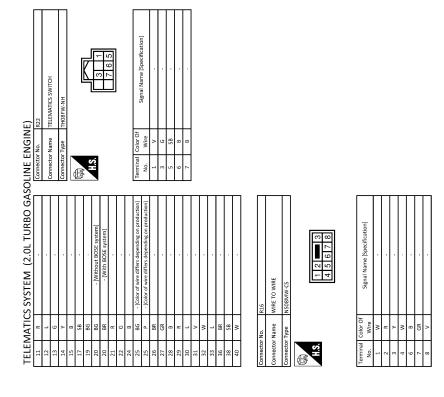
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Connector No. R14 Connector Name WIRE TO WIRE Connector Type TH16FW-NH R 7 6 5 4 3 2 1 R 7 6 5 4 3 2 1	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) No. Wire Signal Name (Specification) No. Wire TO Wife Signal Name (Specification) No. Wire TO Wife Signal Name (Specification) No. Wire Signal Name (Specification) No. Signal Name (Specification)	
Connector No. 66 Connector Type TH16MW-4NH TH16MW-4NH TH2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Spec	
SOLINE ENGINE) Connector No. M408 Connector Name TOU Connector Type GT16C.1P.DS	Terminal Color Of Signal Name [Specification] No. Wire S9 - TELANTENNA SIGNAL S9 - SHELD Connector No. MA09 Connector Name TCU Connector Type G116C.19.DS Terminal Color Of Signal Name [Specification] No. Wire 60 - GPS ANTENNA SIGNAL 61 - GPS ANTENNA SIGNAL	
TELEMATICS SYSTEM (2.0L TURBO GASOLINE ENGINE) Connector No. M137	Ternical Color Of Signal Name [Specification] No. Wire 1	
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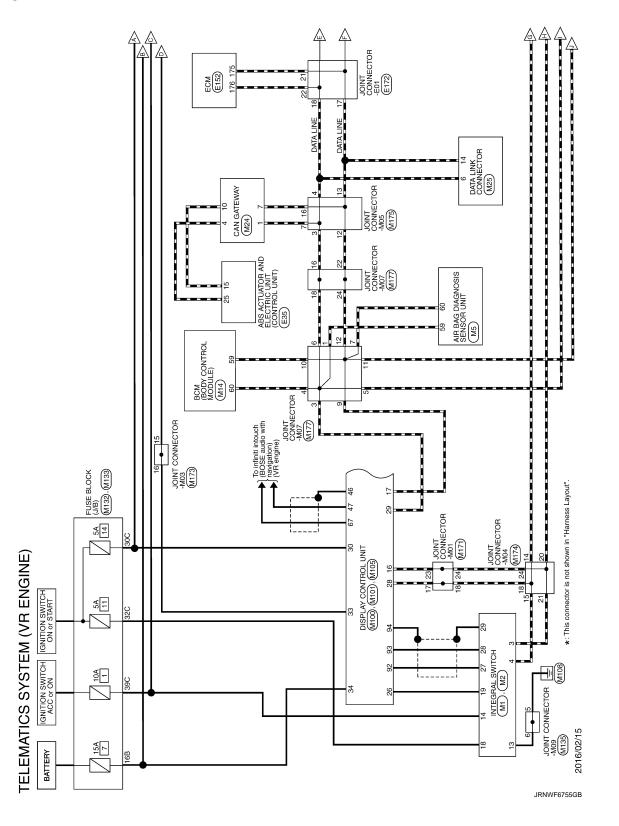
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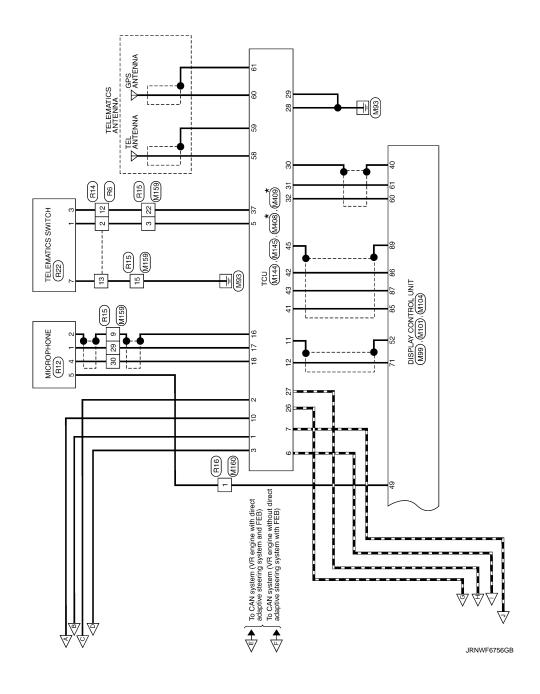
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VR ENGINE





TELEI	MATIC	TELEMATICS SYSTEM (VR ENGINE)										
Connector No.	r No.	E35	Connector No.	or No.	E152	Connector No.		E172	Connector No.	or No.	M1	
Connector Name	r Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	Connecto	Connector Name	ECM	Connector Name		JOINT CONNECTOR-E01	Connect	Connector Name	INTEGRAL SWITCH	
Connector Type	r Type	SAZ30FB-SJZ4-U	Connector Type	or Type	RH24FB-RZ8-L-RH	Connector Type	П	SGA28FLBR-J	Connect	Connector Type	TH24FW-NH	
是 H.S.		2 05 17 18 19 10 11 13 13 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	是 HS.		20 20 20 20 20 20 20 20	H.S.			图 H.S.		2 3 4 7 8 13 14 15 16 18 19 20	
Terminal No.	Color Of Wire	of Signal Name [Specification]	Terminal No.	I Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	al Color Of Wire	Signal Name [Specification]	
1	В	GND	173	SB	FUEL TANK PRESSURE SENSOR	1	GR		2	Я	ILLUMINATION SIGNAL	
2	8	GND	175	d	CAN-L	2	λ		3	91	AV COMM (L)	
3	9	VALVE BATTERY [With VR30 engine]	176	1	CAN-H	3	M		4	SB	AV COMM (H)	
m	۵	VALVE BATTERY [With 2.0L turbo gasoline engine]	177	o	SENSOR POWER SUPPLY [FUEL TANK PRESSURE SENSOR]	4	_		7	M/B	DISK EJECT SIGNAL	
4	> 3	MOTOR BATTERY	178	>	TACHO METER SIGNAL	2	æ:		∞ ;	· 0	HAZERD SIGNAL	
.s	9] ;	STOP LAMP SW SIGNAL [With ADAS]	180	. :	FUEL TANK TEMPERATURE SENSOR	9 1	> 3		13	в 8	QND CONTRACTOR	
ν r	> 8	STOP LAMP SW SIGNAL [With ASCD]	182	≥ 8	FUEL PUMP CONTROL MODULE (FPCM) CHECK	۰, ۰	> -		14	SB >	ACC [For 2.0L turbo gasoline engine]	
	5	AN LIT WHILL SENSON SIGNAL	COT	9 5	PURITION SANIEGI	0	, ;		1 :	۰ ،	HACE INDIVIDUE CONTROL CICERTO	
0 0	9 W	FR RH WHEEL SENSOR POWER SOPPLY	187	86 8	SENSOR GROUND [ASCD STEERING SWITCH]	10	5 >		16	a 8	DISK EJECT SIGNAL	
10	GR	FR RH WHEEL SENSOR POWER SUPPLY	188	>	FUEL PUMP CONTROL MODULE (FPCM)	11	*		18	œ	IGN [For VR30 engine]	
13	œ	VACUUM SENSOR SIGNAL	189	>	ENGINE COMMUNICATION LINE-L	12	_		18	≥	IGN [For 2.0L turbo gasoline engine]	
15	۵	CAN-L [Without Gateway]	190	٦	ENGINE COMMUNICATION LINE-H	15	Μ		19	BR	CAMERA SWITCH SIGNAL	
15	ж	CAN-L [With gateway]	191	а	STOP LAMP SWITCH	16	BG		20	16	AIR BAG INDICATOR OFF SIGNAL	
17	>	RR RH WHEEL SENSOR SIGNAL	192	9g	BRAKE PEDAL POSITION SWITCH	17	Ь					
18	91	RR RH WHEEL SEASOR POWER SUPPLY [With 2.0L turbo gasoline angine]	193	æ	EVAP CANISTER VENT COXTROL VALVE [Color of wire differs depending on production]	18	_					
18	>	RR RH WHEEL SENSOR POWER SUPPLY [With VR30 engine]	193	91	EUAP CANISTR VENT COVIROL VALVE (Color of wire differs depending on production)	19	*		Connector No.	or No.	M2	
19	SB	FR LH WHEEL SENSOR SIGNAL	194	>	SENSOR POWER SUPPLY	20	BG		Connect	Connector Name	INTEGRAL SWITCH	
70	g.	FR LH WHEEL SENSOR POWER SUPPLY	195	ž	ACCELERATOR PEDAL POSITION SENSOR 2	21	a .				8	
2 2	, ا	CAN-H	196	، ا	SENSOR GROUND (ACCELERATOR PEDAL POSITION SENSOR Z)	77	- 8		Connec	or 1ype	1yco_155498/-6	
97	ο α	VACCOIM SENSOR POWER SUPPLY	198	× -	SENSOR POWER SUPPLY	53	gc M	Color of wire differs depending on production	Œ		[
2	SHIFID	N/	199		FCM GBOUND	24	. Be	- [Color of wire differs depending on production]	主		1	
34	9		200	>	SENSOR GROUND	24	91	- [Color of wire differs depending on production]	~			
			201	а	ECM GROUND	25	Ь				27 28	
			202	>	ACCELERATOR PEDAL POSITION SENSOR 1	56	_				53	
			203	9	SENSOR GROUND	27	Υ					
			204	89	ECM GROUND	28	_			- 1		
									Terminal No.	al Color Of Wire	Signal Name [Specification]	
									27	>	(+)	
									28	8	(-) SQA1	
									29	SHIELD		

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Conn	Connector No.	M5	Connector No.		M14	Connector No.		M24	13	ı	CAN-H	
Conn	Connector Name	e AIR BAG DIAGNOSIS SENSOR UNIT	Connector Name	. Name	BCM (BODY CONTROL MODULE)	Connector Name	r Name	CAN GATEWAY	14	۵ ۶	CAN-L POWER	
Conn	Connector Type	NH28FY-EX	Connector Type	Type	TH40FB-NH	Connector Type	r Type	TH12FW-NH		_		
(F	IF I	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	修			E			Connector No.		M99 DISPLAY CONTROL UNIT	
	2	52 21 54 23 24 51 20 53 60 59 25 57					_	7 9 10 11 12	Connector Type	П	Tyco_1554987-4	
Termir	Terminal Color Of No. Wire	r Of Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	H.S.		7 8 8 9	
Γ	t		48	œ	PUSH-BTN IGN SW ILL PWR	-	٦	CAN-H (CAN COMMUNICATION CIRCUIT 1)]=	
2	Н		52	9	DONGLE LINK	m	Α	BATTERY POWER SUPPLY				
8			54	>	COMM LINE	4	1	CAN-H (CAN COMMUNICATION CIRCUIT 2)				
4 1	4/B		55	œ d	RAIN SENSOR	ı,	8 -	GROUND	е	Color Of	Signal Name [Specification]	
	- X		60	-	CAN-L	0 -	٥	CAN-I (CAN COMMINICATION CIRCUIT 2)	S u	2 2	IISB GBOIND	
	$^{+}$		61	ی ہ	REAR WINDOW DEF RLY CONT	6	. «	IGNITION POWER SUPPLY [With VR30 engine and without ISS]	+	> >	USB V BUS SIGNAL	
ا ا	9/A 8	G AS2 (+)	62	œ	STARTER RLY CONT	6	Μ	IGNITION POWER SUPPLY [Except with VR30 engine and without ISS]	∞	۳	USB D- SIGNAL	
6	۸ (AS2 (-)	64	۸	I-KEY WARN BUZZER	10	R	CAN-L (CAN COMMUNICATION CIRCUIT 2)	6	T	USB D+ SIGNAL	
1.	18 Y	FCZS+	9	8	OUTS HD LAMP CONT	11	В	GROUND	10 SH	SHIELD	SHIELD	
1	19 BR		99	8	BLOWER FAN RLY CONT [With VR30 engine]	12	ж	CAN-L (CAN COMMUNICATION CIRCUIT 2)				
2.	H		99	>	BLOWER FAN RLY CONT [With 2.0L turbo gasoline engine]							
21	1	AC	67	W/B	IGN RLYAY (F/B) CONT				Connector No.	. M100		
22	ᅔ		89	œ	DIMMER	Connector No.		M25	Connector Name		DISPLAY CONTROL UNIT	
2	+	/ AIRBAG W/L	69	æ	A/T SHIFT SELECT PWR SPLY	Connector Name	r Name	DATA LINK CONNECTOR		П		
7	24 G		70	en	IGN RLYAY (IPDM E/R) CONT				Connector Type	De TH24FW-NH	W-NH	
7	7		1/	و	DR DOOR REQ SW	edá i ionaliion	adki	BUIDEW	Q			
s li	+	SATELLITE RH2 (+)	72	88	PASS DOOR REQ SW	₫.			事			
۱	7 ×		5/	¥ S	COMBI SW INPULS	ALT.		_	S	L	П	
ثاً ا	54	SIDE_SENS_CHZ+	77	S >	COMBISW INPUT 4	H.S.		11 12 13 14 16		1	1617 1920	
57	2 I'C		78	· >	COMBI SW INPUT 2			3 4 5 6 7 8			28 29 30 31 33 34	
Š	H		79	91	COMBI SW INPUT 1							
9	e0 b	CAN-L	80	_	TR LID OPNR SW					1		
						Termina	Color Of		No. v	Color Of Wire	Signal Name [Specification]	
						No.	Wire	Signal Name [Specification]	H	91	AV COMM (L)	
						æ	97	M_CAN_L	17	Ь	CAN-L	
						4	В	EARTH	19	R	DIMMER SIGNAL	
						S	В	EARTH		BR	REVERSE SIGNAL	
						9	٦	CAN-H	-	8	GND	
						7	>	KLINE [With 2.0L turbo gasoline engine]	\dashv	BR	CAMERA SWITCH SIGNAL	
						7	Α.	KLINE [With VR30 engine]	+	SB	AV COMM (H)	
						00	≥	MS_NBI	+	_	CAN-H	
						# :	SB	M_CAN_H	30	1	IGN [For VR30 engine]	
						15	œ	CAN-L	┨	×	IGN [For 2.0L turbo gasoline engine]	

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20C W	ļ	222	23.5	256 16	╀	27C P -	28C W -	29C W	2C R .	30C R -	Н	œ	89 (+	34C W/B	360 360	: 3	L	39C v	3C P -	40C G .	4C P	4	. 9 39	+		$\frac{1}{2}$		Connector No. M135	Connector Name IOINT CONNECTOR-M09	П	Connector Type 24342_4GA2A	₫.	654321	5.1	18 17 16 15 14 13	24 23 22 1 20 19 F			Terminal Color Of Signal Name [Specification]	No. Wire Specification	1 B	+	+		S B -
Connector No. M132	Γ	Connector Name FUSE BLOCK (J/B)	Connector Type NS16FW-CS	1			5848	16B 15B 14B 13B 11B 9B				e e	Wire	+	138 P	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	╀	28 8 -		58 R -			-	Connector No. M133	Connector Name FUSE BLOCK (J/B)	Т	7	•			(4C) (3E) (3E) (3E) (3E) (3E) (3E) (3E) (3E			Terminal Color Of		10C V	12C L -	13C L -	14C Y -	15C R -	16C R -	_	. BG	4	4	1C R -
71 R MICROPHONE SIGNAL (With telematics system)	-	- W			Connector No. M104	Г	Connector Name Display CON ROL UNI	Connector Type USCAR30-MC-F	l			00 00 00 00	80 /000 00			Tarminal Color Of		85 R USB V BUS SIGNAL	86 P USB D- SIGNAL	87 W USB D+ SIGNAL	89 SHIELD USB GROUND		-	Connector No. M105	Connector Name DISPLAY CONTROL UNIT	Т	٦				82,83	94		Terminal Color Of		92 W LVDS (+)	93 B LVDS (-)	94 SHIELD SHIELD								
TELEMATICS SYSTEM (VR ENGINE) 31 R VEHICLE SPEED SIGNAL (8-PULSE)	: 5	+	y BAT	-		Connector No. M101	A PRINCIPAL PRIN	Connector Name DISPLAY CONTROL UNIT	Connector Type TH40FW-NH		(F			이 62 63 64 65 85 67 68 89 70			Ferminal Color Of		36 LG COMPOSITE IMAGE SIGNAL (-)	SHIELD	40 SHIELD MANUFACTURER SPECIFIC SIGNAL	42 G SOUND SIGNAL RH (-)	SHIELD	44 L SOUND SIGNAL LH (-)	Α	ㅎ	د د	n ≥	R	SHIELD	SHIELD MICR	× C	55 SHIELD SHIELD	5 00			62 R SOUND SIGNAL RH (+)	63 SHIELD SHIELD	64 V SOUND SIGNAL LH (+)	8	66 SHIELD SHIELD	9	W VOICE GUIDA	SHIELD	G MICROPHONE SIGNAL	71 G MICROPHONE SIGNAL [Without telematics system]

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۰ م	20 1		7	9	MICROPHONE SIGNAL	n ·	5		۱ م	9	
n :	2		18	+	MICROPHONE VCC	ا و	æ	- [With VR30 engine and with ISS]	_	<u>~</u> :	
10	97		56	+	AV COMIM (H)	9	>	 [Except with VR30 engine and with ISS] 	80	>	
11	91		27	_	AV COMM (L)	7	-				
13	8	- [With VR30 engine]	28	+	GROUND	6	SHELD			ſ	
13	88	 With 2.0L turbo gasoline engine) 	29	†		10	>		Connector No.	M171	
14	9	- [With VR30 engine]	R :	<u>*</u>		= :	٠.		Connector Name		JOINT CONNECTOR-M01
14 15	98	- [with 2:0t turbo gasoline engine]	31	20 30	SOUND SIGNAL (+)	12	ی ر		Connector Type	Т	24342 46424
15	. 5	- Mith 2 Of turbo gasoline engine	3 6	+	SOS CALL SWITCH SIGNAL	2 7	>			7	
16	8 8	- (With 2 Of Turbo pasoline engine)	Š	+	200 000 0000	1 1	- «		1		
16	>	- [With VR30 engine]				17	8		1		6543214
17	SB	- [With 2.0L turbo gasoline engine]	Conne	Connector No.	M145	19	œ		?		11 10 9 8 7
17	>	- [With VR30 engine]			100	20	BG	- [Except with VR30 engine and with BOSE system]			18 17 16 15 14
18	SB	- [With 2.0L turbo gasoline engine]	9	on Marie	02	50	BR	- [With VR30 engine and with BOSE system]			24 23 22 20 19 5
18	٨	- [With VR30 engine]	Conne	Connector Type	USCAR30-MC-F	21	В	*			
19	SHIELD] [22	G				
20	æ		E	_		24	8		Terminal Co	Color Of	Continuity of Continuity
21	×		•	ŗ		25	۸		No.	Wire	orginal ivalite (openitration)
Н	SHIELD		Ĉ.	ń		56	œ		1	8	
23	_				41 42 43 45	27	а	*	2	8	
24	_					28	8		е	В	
	1					29	g		4	8	
						30	_		2	B	
Connector No.		M144	Termin	Terminal Color Of		31	Α		9	8	
	ı		No.	Wire	Signal Name [Specification]	32	≥		7	<u>_</u>	
Connector Name		1021	41	œ	USB V BUS SIGNAL	33	_		00	8	
Connector Type	Γ	TH40FB-NH	42	۵	USB D- SIGNAL	36	>		6	В	
	1		43	*	USB D+ SIGNAL	38	91		10	g	
Œ			45	SHIELD		40	≥		11	9	
				1					14		
Š	L	IГ							15	9	
	_	18 17 16 7 10 10 7 6 5 3 2 1	Gund	Connector No	M159	Connector No	l	MIGO	16	9	- [With WB30 coming]
	-11	37 32 32 33 34 31 34 53 53 53 53			CCTIA		ı	COTIN	2 .	3,	Court of the section
			Conne	Connector Name	WIRE TO WIRE	Connecto	Connector Name	WIRE TO WIRE	17	- 85	- [with Z.UL turbo gasoline engine]
			0	Connoctor Tuno	THEODER WILL	Connector Type	Type	NICOCIN	, ,	3,	Datish 2 Of Archa accellant accellant
Terminal	Color Of			3			24	NOOD W-CO	8	- 8	- [with 2.0c tabb gasonine engine]
	Wire	Signal Name [Specification]	Œ	_		<u>(</u>			18	3 >	- (Mith 2 Of turbo assoline anaine)
t	/ >	BAT	手			建艺			10	- (4	familia con construction of the construction o
,	. 8	ACC (For 2 Ol turbo assoline engine)	7	į. S		AH.S.		3 0 1	200	0	
7	9 3	ACC [FOI 2:OL [dib0 gasonile engine]		1	20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1			1 2	0.2	,	Contract of the Contract of th
2	>	ACC [For VR30 engine]			33 22 31 30 23			8 / 6 5 4	22	57	- [With VR30 engine]
3	SB	ACC OUTPUT							22	SB	 [With 2.0L turbo gasoline engine]
2	BR	SOS SWITCH LED SIGNAL							23	LG	- [With VR30 engine]
9	7	CAN-H							23	SB	- [With 2.0L turbo gasoline engine]
7	Ь	CAN-L	Terminal	nal Color Of	f = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =	Terminal	Color Of	(magaziness) and Mariana	24	91	- [With VR30 engine]
10	R	IGN [For VR30 engine]	No.	Wire		No.	Wire	olgiiai ivaliie [opeciiicatiori]	24	SB	- [With 2.0L turbo gasoline engine]
10	W	IGN [For 2.0L turbo gasoline engine]	1	9	•	1	W				
Н	SHIELD	MICROPHONE SIGNAL GND	2	8		7	91				
12	ď	MICROPHONE OUTPUT SIGNAL	٣	BR		m	BR				
16	SHIELD	SHIELD	4	œ		4	œ				

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TELEI	MATICS	TELEMATICS SYSTEM (VR ENGINE)										
Connector No.	r No.	M173	Connector No.		M174	Connector No.		M175	Conne	Connector No.	M177	
Connector Name		JOINT CONNECTOR-M03	Connecto	Connector Name	JOINT CONNECTOR-M04	Connector Name		JOINT CONNECTOR-M05	Conne	Connector Name	JOINT CONNECTOR-M07	
Connector Type		24342_4GA2A	Connector Type	П	24342_4GA2A	Connector Type	Н	NH20FL-DC	Conne	Connector Type	24342_4GA2A	
優 H.S.		6 5 4 3 2 1 1 1 1 0 9 8 2 1 1 1 1 0 9 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	優 H.S.		6 5 4 3 2 1 1 1 1 0 9 8 8 1 1 1 1 0 9 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H.S.		8 7 6 5 4 3 2 1	图 H.S.	vi	6 5 7 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
		23 22 21 20 24			23 22 24 2		_	2019 17161514131211110			23 22 21 20 2	
Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	I Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name (Specification)	Terminal No.	nal Color Of Wire	Signal Name [Specification]	
1	_		П	_		1	_			H		
2	- -		2 2			2 0	- -	,	2 0	- -	•	
0 4	_		0 4	-		0 4	, _		0 4	_		
2	-		2	-		2	-		2	-		
9	٦	•	9	٦	•	9	٦		9	_	•	
7	œ		7	>		7	_		7	۵.		
œ	œ		∞	>		∞	_		∞	۵		
6	œ		6	>		9	۵		6	+		
10	œ		01 ;	> :		Ξ;	۵ ،		10	+	,	
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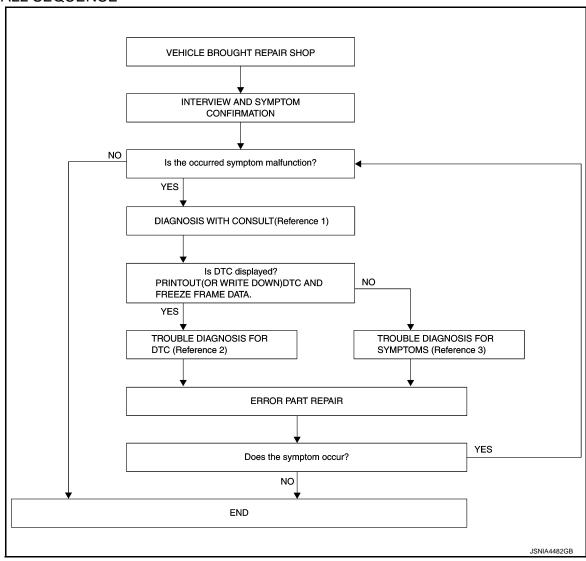
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



- Reference 1... Refer to <u>AV-709</u>, "CONSULT Function".
- Reference 2··· Refer to <u>AV-714, "DTC Index"</u>.
- Reference 3··· Refer to AV-767, "SYMPTOM TABLE".

DETAILED FLOW

1.INTERVIEW AND SYMPTOM CONFIRMATION

Check the malfunction symptoms by performing the following items.

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

Is the occurred symptom malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

2.DIAGNOSIS WITH CONSULT

DIAGNOSIS AND REPAIR WORK FLOW
< BASIC INSPECTION > [TELEMATICS SYSTEM]
 Connect CONSULT and perform a self-diagnosis for "TELEMATICS". Refer to <u>AV-709</u>, "CONSULT Function".
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
 Check the DTC indicated in the self-diagnosis results. Perform the relevant diagnosis referring to the DTC Index. Refer to <u>AV-714</u>, "<u>DTC Index</u>".
>> GO TO 5.
4.TROUBLE DIAGNOSIS FOR SYMPTOMS
Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to <u>AV-767, "SYMPTOM TABLE"</u> .
>> GO TO 5.
5.ERROR PART REPAIR
Repair or replace the identified malfunctioning parts. Repair or replace the identified malfunctioning parts.
 Perform a self-diagnosis for "TELEMATICS" with CONSULT. Check that the symptom does not occur.
Does the symptom occur?

YES >> GO TO 1.

>> INSPECTION END NO

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ADDITIONAL SERVICE WHEN REPLACING TCU

< BASIC INSPECTION >

[TELEMATICS SYSTEM]

ADDITIONAL SERVICE WHEN REPLACING TCU

Description INFOID:000000013498060

When TCU is replaced, TCU activation operation is required.

Preparation before activation operation

- Subscribe to telematics service
- Preregister user ID and password (can be performed from owner homepage)
- Since VIN data and vehicle specifications are not included in the TCU after replacement, it is required to write VIN data and vehicle specifications with CONSULT.

Refer to AV-738, "Work Procedure".

Work Procedure

INFOID:0000000013498061

1. READING OF VIN DATA

WITH CONSULT

Select "SAVE VIN DATA", then "Start" on "SAVE VIN DATA" screen to save the VIN data stored in replaced TCU in CONSULT.

NOTE:

If it cannot be saved, writing operation must be performed manually.

>> GO TO 2.

2. CHECKING TYPE ID

®WITH CONSULT

- 1. Select "Before ECU Replacement" of "Read / Write Configuration".
- 2. Check that "Type ID" is displayed on CONSULT.

Is "Type ID" displayed?

YES >> GO TO 3.

NO >> GO TO 7.

3.VERIFYING TYPE ID (1)

(I) WITH CONSULT

Compare a "Type ID" displayed on the CONSULT screen with the one searched by using FAST (service parts catalogue) to check that these "Type ID" agree with each other.

NOTE:

For the "Type ID" searched by using FAST (service parts catalog), use the last five digits of the "Type ID".

>> GO TO 4.

4. SAVING TYPE ID

(P)WITH CONSULT

Save "Type ID" on CONSULT.

>> GO TO 5.

5.TCU REPLACEMENT

Replace TCU. Refer to AV-771, "Removal and Installation".

>> GO TO 6.

6. WRITING TYPE ID (AUTOMATIC WRITING)

(I) WITH CONSULT

- Select "After ECU Replacement" of "Re/programming, Configuration" or that of "Read / Write Configuration".
- Select the "Type ID" agreeing with the one stored on CONSULT and the one searched by using FAST (service parts catalogue) to write the "Type ID" into the TCU.

ADDITIONAL SERVICE WHEN REPLACING TCU RASIC INSPECTION > [TELEMATICS SYSTEM]	
< BASIC INSPECTION > [TELEMATICS SYSTEM]	
>> GO TO 9.	
7.TCU REPLACEMENT	
Replace TCU. Refer to AV-771, "Removal and Installation".	
respects to the terminal and metallians.	
>> GO TO 8.	
8. WRITING TYPE ID (MANUAL WRITING)	
®WITH CONSULT	
 Select "Manual selection". Select the "Type ID" searched by using FAST (service parts catalogue) to write the "Type ID" into the TCU. 	
NOTE:	
For the "Type ID" searched by using FAST (service parts catalog), use the last five digits of the "Type ID".	
>> GO TO 9.	
9.NOTICE TO CARRIER ATX HELP DESK	
Contact ATX help desk to notice the termination of replaced TCU and connection of new TCU. (VIN is	
required)	
Can ID data be saved to CONSULT at 1st step?	
YES >> GO TO 10. NO >> GO TO 11.	
10. AUTOMATIC WRITING OF VIN DATA TO TCU	
(F)WITH CONSULT	
Select "WRITE VIN (SAVED DATA)", then "Start" at "WRITE VIN (SAVED DATA)" screen to write the VIN data	
saved in CONSULT into new TCU.	
>> GO TO 12.	
11. MANUAL WRITING OF VIN DATA TO TCU	
©WITH CONSULT Select "WRITE VIN (MANUAL INPUT)", "WRITE VIN (MANUAL INPUT)" then "Start" on changing screen to	
write the VIN data saved into new TCU.	
>> GO TO 12.	
12. TCU ACTIVATION	
WITH CONSULTWait for 5 seconds or more after turning the ignition switch ON.	
2. Touch "TELEMATICS" on the CONSULT screen.	
3. After performing System Call of CONSULT, touch the "Work support" tab.	

- 3. After performing System Call of CONSULT, touch the "Work support" tab.
- 4. On the "Work support" screen of CONSULT, select "TCU ACTIVATE SETTING" and touch "Start".
- 5. On the "TCU ACTIVATE SETTING" screen, touch "Start" to set to ON. Touch "End".
- 6. Exit from CONSULT.
- 7. Turn the ignition switch OFF.
- 8. Wait (at least 10 seconds) until the ignition switch indicator turns OFF to shut down TCU.

>> WORK END.

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Revision: November 2016 **AV-739** 2016 Q50

DTC/CIRCUIT DIAGNOSIS

B130D TCU

DTC Description

INFOID:0000000013498062

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B130D	TEL LINE OUT ERROR (Telephone line out error)	Malfunction is detected sound signal circuits between TCU and display control unit.

POSSIBLE CAUSE

Sound signal circuit

FAIL-SAFE

Telematics system function stops

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC U130D detected?

YES >> Proceed to AV-740, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498063

1. CHECK CONTINUITY BETWEEN TCU AND DISPLAY CONTROL UNIT CIRCUIT

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

TCU		Display control unit		Continuity
Connector	terminal	Connector terminal		Continuity
M144	31	M101	61	Existed

4. Check continuity between TCU harness connector and ground.

TCU			Continuity
Connector	terminal	Ground	Continuity
M144	31		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

2 .CHECK SOUND SIGNAL

- 1. Connect TCU harness connector and display control unit harness connector.
- 2. Turn ignition switch ON.
- Check signal between TCU harness connector terminals.

	TCU			
Connector	(+)	(-)	Condition	Reference value
Connector	Terr	minal		
M144	31	32	When inputting interior sound	(V) 1 0 -1 + 2ms SKIB3609E

Is the inspection result normal?

YES

>> Replace TCU. Refer to <u>AV-771, "Removal and Installation"</u>.
>> Replace display control unit. Refer to <u>AV-407, "Removal and Installation"</u>. NO

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[TELEMATICS SYSTEM]

B1310 TCU

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B1310	TCU TEMPERATURE ERROR (TCU temperature error)	TCU internal temperature out of range.

POSSIBLE CAUSE

- TCU temperature is high
- TCU

FAIL-SAFE

Telematics system function stops

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(II) With CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC B1310 detected?

YES >> Proceed to AV-742, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498065

1. CHECK AROUND TOU

Check whether there is any factor which causes a temperature rise near TCU.

Was there any factor?

YES >> Remove a factor.

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-742, "DTC Description".

Is DTC B1310 detected again?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> INSPECTION END

B13D9 TCU

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

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DTC Description

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B13D9	USB CONNECTION (USB connection)	Communication between display control unit and TCU is malfunctioning.

POSSIBLE CAUSE

- USB harness
- TCU

FAIL-SAFE

- Telematics system does not function
- Inform a INFINITI CONNECTION data center about abnormality

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC B13D9 detected?

- YES >> Proceed to <u>AV-743</u>, "<u>Diagnosis Procedure</u>".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498067

1. CHECK USB HARNESS CONNECTION

- 1. Turn ignition switch OFF.
- Visually check USB harness connector between display control unit and TCU.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace USB harness.

2. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

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Perform DTC confirmation procedure again. Refer to AV-743, "DTC Description".

Is DTC B13D9 detected again?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> INSPECTION END

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[TELEMATICS SYSTEM]

B13E1 TCU

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B13E1	CAN COMMUNICATION (CAN communication)	AV communication circuit between display control unit and TCU is malfunctioning.

POSSIBLE CAUSE

- TCU
- AV communication circuit is open

FAIL-SAFE

- Some telematics system does not function
- Inform a INFINITI CONNECTION data center about abnormality

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC B13E1 detected?

YES >> Proceed to AV-744, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498069

1. CHECK AV COMMUNICATION CIRCUIT

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

Display c	Display control unit		TCU	
Connector	Terminal	Connector Terminal		Continuity
M100	16	M144	27	Existed
IVITOU	28	IVI I 44	26	LAISIEU

Is the inspection result normal?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> Repair or replace harness or connector.

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

B2E33 TELEMATICS SWITCH

DTC Description

INFOID:0000000013498070

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
B2E33	ECALL BUTTON (Ecall button)	Malfunction detected is SOS call switch signal circuit between TCU and telematics switch.

POSSIBLE CAUSE

- Telematics switch signal circuit
- · Telematics switch

FAIL-SAFE

- Telematics system does not function (Only SOS call does not operate)
- Telematics switch LED indicator turn OFF

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- Erase DTC using CONSULT.
- Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC B2E33 detected?

- >> Proceed to AV-745, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498071

1. CHECK SOS SWITCH LED SIGNAL

- Turn ignition switch ON.
- Check the voltage between TCU harness connector and ground.

(+) TCU		(–)	Voltage (Approx.)	
Connector	Terminal		(11 -)	
M144	5	Ground	12.0 V	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace TCU. Refer to AV-771, "Removal and Installation".

2.check sos switch led signal circuit for open

- Turn ignition switch OFF.
- Disconnect TCU harness connector and telematics switch harness connector.
- Check the continuity between TCU harness connector and telematics switch harness connector.

TCU		Telemati	Continuity	
Connector	Terminal	Connector Terminal		Continuity
M144	5	R22	1	Existed

Is the inspection result normal?

>> GO TO 3. YES

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B2E33 TELEMATICS SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

NO >> Repair or replace harness or connector.

 $3. \mathsf{CHECK}$ sos switch led signal circuit for short

Check the continuity between TCU harness connector and ground.

Т	CU		Continuity	
Connector Terminal		Ground	Continuity	
M144 5			Existed	

Is the inspection result normal?

YES >> Replace telematics switch. Refer to AV-773, "Removal and Installation".

NO >> Repair or replace harness or connector.

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

U1000 CAN COMM CIRCUIT

DTC Description

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DESCRIPTION

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

CAN Communication Signal Chart. Refer to LAN-67, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart (2.0L Turbo Gasoline Engine Models)".

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition	
U1000	CAN COMM CIRC (CAN communication circuit)	When TCU did not transmit and receive CAN communication signal continuity for 2 seconds or more.	

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

- Telematics system does not function
- Inform a INFINITI CONNECTION data center about abnormality

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC using CONSULT.
- 3. Select "Self-Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- Check DTC.

Is DTC U1000 detected?

- >> Proceed to AV-747, "Diagnosis Procedure". YES
- NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498073

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-747, "DTC Description".

Is DTC U1000 detected again?

YES >> Perform the trouble diagnosis for CAN communication system. Refer to LAN-41, "Trouble Diagnosis Flow Chart".

NO >> INSPECTION END

AV-747 Revision: November 2016 2016 Q50

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U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Description

DESCRIPTION

CAN controller controls the communication of CAN communication signal and the error detection.

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition	
U1010	CONTROL UNIT (CAN) [Control unit (CAN)]	A malfunction is detected in CAN controller initial diagnosis of TCU.	

POSSIBLE CAUSE

TCU

FAIL-SAFE

Telematics system function stops

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Erase DTC using CONSULT.
- Select "Self-Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- Check DTC.

Is DTC U1010 detected?

YES >> Proceed to <u>AV-748</u>, "<u>Diagnosis Procedure</u>".

NO-1 >> To check malfunction symptom before repair: GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498075

2016 Q50

1.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-748, "DTC Description".

Is DTC U1010 detected again?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> INSPECTION END

U1A00 TCU

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

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DTC Description

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1A00	ACC NO CONN [ACC no connection]	No input of ACC signal.

POSSIBLE CAUSE

ACC power circuit

FAIL-SAFE

Telematics system does not function

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 30 seconds.
- 3. Turn ignition switch ON and wait at least 30 seconds or more.
- Select "Self Diagnostic Result" mode of TELEMATICS" using CONSULT.
- 5. Check DTC.

Is DTC U1A00 detected?

- YES >> Proceed to AV-749, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498077

1. CHECK ACC POWER CIRCUIT

Check the ACC power circuit. Refer to AV-765, "TCU: Diagnosis Procedure".

Is the inspection result normal?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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[TELEMATICS SYSTEM]

U1A01 TCU

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition	
U1A01	INTERNAL ERROR (TCU) [Internal error (TCU)]	Malfunction in TCU is detected.	

POSSIBLE CAUSE

TCU

FAIL-SAFE

Telematics system function stops

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC U1A01 detected?

YES >> Proceed to <u>AV-750, "Diagnosis Procedure"</u>.

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498079

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-750, "DTC Description".

Is DTC U1A01 detected again?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> INSPECTION END

U1A03 TCU

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1A03	SIM CARD (SIM card)	SIM card malfunction is detected.

POSSIBLE CAUSE

TCU

FAIL-SAFE

- Telematics system function stops
- When operated a telematics system, inform that cannot be connected to the INFINITI CONNECTION data center

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC U1A03 detected?

- YES >> Proceed to AV-751, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498081

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-751, "DTC Description".

Is DTC U1A03 detected again?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> INSPECTION END

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[TELEMATICS SYSTEM]

U1A04 TCU

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1A04	VIN UNFINISHED (VIN unfinished)	No write of VIN number is detected.

POSSIBLE CAUSE

- VIN number is not written
- TCU

FAIL-SAFE

Telematics service does not function

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC U1A04 detected?

YES >> Proceed to AV-752, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498083

1. PERFORM WRITING VIN DATA TO TCU

Perform writing VIN data to TCU. Refer to AV-738, "Description".

Was the writing of VIN data completed?

YES >> GO TO 2.

NO >> Replace TCU. Refer to AV-771, "Removal and Installation".

2.PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-752, "DTC Description".

Is DTC U1A04 detected again?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> INSPECTION END

U1A06 TEL ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

U1A06 TEL ANTENNA

DTC Description

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition	
U1A06	TEL ANTENNA (TEL antenna)	Malfunction detected is TEL antenna signal circuit between TCU and TEL antenna.	

POSSIBLE CAUSE

- TEL antenna signal circuit
- TEL antenna

FAIL-SAFE

- Telematics switch LED indicator turn OFF
 - (LED indicator turns ON 10 times when push the SOS call switch.)
- When operated a telematics system, inform that cannot be connected to the INFINITI CONNECTION data

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

- Turn ignition switch ON.
- Erase DTC using CONSULT.
- Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC U1A06 detected?

- YES >> Proceed to AV-753, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498085

1. CHECK TELEMATICS ANTENNA

Visually check telematics antenna and antenna feeder. Refer to AV-775, "Feeder Layout".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK TOU VOLTAGE

- Disconnect TCU harness connector.
- Turn ignition switch ON.
- Check voltage between TCU terminal and ground.

(+)	(-)	Voltage
TCU		Voltage (Approx.)
Terminal		
58	Ground	5.0 V

Is the check result normal?

- YES >> Replace telematics antenna. Refer to AV-774, "Removal and Installation".
- NO >> Replace TCU. Refer to AV-771, "Removal and Installation".

AV-753 Revision: November 2016 2016 Q50

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[TELEMATICS SYSTEM]

U1A09 GPS ANTENNA

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1A09	GPS ANTENNA CONN (GPS antenna connection)	No input of GPS antenna signal.

POSSIBLE CAUSE

- · GPS antenna signal circuit
- GPS antenna

FAIL-SAFE

- · Telematics system cannot send correct position inform
- Inform a INFINITI CONNECTION data center about abnormality

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC U1A09 detected?

YES >> Proceed to AV-754, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498087

1. CHECK TELEMATICS ANTENNA

Visually check telematics antenna and antenna feeder. Refer to AV-775, "Feeder Layout".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK TCU VOLTAGE

- 1. Disconnect TCU harness connector.
- Turn ignition switch ON.
- 3. Check voltage between TCU terminal and ground.

(+)		Voltage	
Terminal	(-)	Voltage (Approx.)	
60	Ground	5.0 V	

Is the check result normal?

YES >> Replace telematics antenna. Refer to AV-774, "Removal and Installation".

NO >> Replace TCU. Refer to AV-771, "Removal and Installation".

U1A0A TCU

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1A0A	GPS MODULE COMM (GPS module communication error)	Malfunction on the GPS module in TCU is detected.

POSSIBLE CAUSE

TCU

FAIL-SAFE

- Telematics system cannot send correct position inform
- Inform a INFINITI CONNECTION data center about abnormality

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC U1A0A detected?

- YES >> Proceed to <u>AV-755</u>, "<u>Diagnosis Procedure</u>".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498089

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-744, "DTC Description".

Is DTC U1A0A detected again?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> INSPECTION END

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U1A0B MICROPHONE

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1A0B	MIC IN CONN (Microphone input connection)	When either one of the following items is detected: Sound signal circuit between TCU and microphone. Microphone VCC signal circuits between TCU and microphone.

POSSIBLE CAUSE

- Sound signal circuit
- · Microphone VCC signal circuit

FAIL-SAFE

- Transmit an own vehicle position to the INFINITI CONNECTION data center
- Inform a INFINITI CONNECTION data center about abnormality

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC U1A0B detected?

YES >> Proceed to AV-756, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498091

1. CHECK MICROPHONE SIGNAL CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect TCU harness connector and microphone harness connector.
- 3. Check the continuity between TCU harness connector and microphone harness connector.

TCU		Micro	Continuity	
Connector	Terminal	Connector Terminal		Continuity
	16		2	
M144	17	R12	1	Existed
	18		4	

Check the continuity between TCU harness connector and ground.

T(CU		Continuity	
Connector	Terminal	Ground	Continuity	
M144	17	Glound	Not existed	
IVI I 44	18		Not existed	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

2.CHECK VOLTAGE MICROPHONE POWER SUPPLY

U1A0B MICROPHONE

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

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- 1. Connect TCU harness connector.
- 2. Turn ignition switch ON.
- 3. Check the voltage between TCU harness connector terminals.

	TCU		
Connector	Terminal		Voltage (Approx.)
Connector	(+)	(-)	(11 -)
M144	18	16	5.0 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace TCU. Refer to AV-771, "Removal and Installation".

3. CHECK MICROPHONE SIGNAL

- 1. Connect microphone harness connector.
- 2. Check the signal between TCU harness connector terminals.

TCU				
Connector	(+)	(–)	Condition	Reference value
Connector	Connector Terminal			
M144	17	16	When inputting interior sound.	(V) 1 0 -1 + + 2ms SKIB3609E

Is the inspection result normal?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> Replace microphone. Refer to AV-772, "Removal and Installation".

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U1A0C MICROPHONE

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1A0C	MIC OUT CONN (Microphone output connection)	Malfunction is detected microphone signal circuits between TCU and display control unit.

POSSIBLE CAUSE

Microphone signal circuit

FAIL-SAFE

- Transmit an own vehicle position to the INFINITI CONNECTION data center
- Inform a INFINITI CONNECTION data center about abnormality

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- 2. Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC U1A0C detected?

YES >> Proceed to AV-758, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498093

1. CHECK MICROPHONE SIGNAL CIRCUIT

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

TCU		Display control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M144	11 M101		52	Existed
IVI I 44	12	IVITOT	71	LAISIEU

4. Check continuity between TCU harness connector and ground.

T	TCU		Continuity
Connector	Terminal	Ground	Continuity
M144	11	Giodila	Not existed
IVI 144	12		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

2.CHECK MICROPHONE SIGNAL

- 1. Connect TCU harness connector and display control unit harness connector.
- 2. Check the signal between TCU harness connector.

U1A0C MICROPHONE

[TELEMATICS SYSTEM]

TCU				
Connector	(+)	(–)	Condition	Reference value
Connector Terminal				
M144	12	11	When inputting interior sound.	(V) 1 0 -1 + 2ms SKIB3609E

Is the inspection result normal?

YES >> Replace display control unit. Refer to AV-407, "Removal and Installation".

NO >> Replace TCU. Refer to AV-771, "Removal and Installation".

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U1A0E TELEMATICS SWITCH

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1A0E	SOS SWITCH ON STUCK (SOS switch ON stuck)	SOS call switch is ON for 10 second or more.

POSSIBLE CAUSE

SOS call switch signal circuit

FAIL-SAFE

- Telematics system does not function (Only SOS call does not operate)
- Telematics switch LED indicator turn OFF

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC using CONSULT.
- Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC U1A0E detected?

YES >> Proceed to AV-760, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498095

1. CHECK SOS CALL SWITCH SIGNAL

- Turn ignition switch ON.
- 2. Check the voltage between TCU harness connector and ground as per the following condition.

(+) TCU		(–)	Condition	Voltage (Approx.)
Connector	Terminal			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
M144	37	Ground	When pressing SOS switch	0 V
IVI I 44	37	Giodila	Except for above	5.0 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace TCU. Refer to AV-771, "Removal and Installation".

2.CHECK SOS CALL SWITCH SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect TCU harness connector and telematics switch harness connector.
- Check the continuity between TCU harness connector and telematics switch harness connector.

TCU		Telematics switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M144	37	R22	3	Existed

Is the inspection result normal?

U1A0E TELEMATICS SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.check sos call switch signal circuit for short

Check the continuity between TCU harness connector and ground.

T	CU		Continuity
Connector Terminal		Ground	Continuity
M144	37		Not existed

Is the inspection result normal?

YES >> Replace telematics switch. Refer to AV-773, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

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U1A10 TCU

DTC Description

DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1A10	AIRBAG SIGNAL (Lose signal of airbag)	When detected an abnormal signal from air bag diagnosis sensor.

POSSIBLE CAUSE

Car crash information signal (CAN communication)

FAIL-SAFE

- Some telematics system does not function
- Inform a INFINITI CONNECTION data center about abnormality

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- 4. Check DTC.

Is DTC U1A10 detected?

YES >> Proceed to AV-762, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498097

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Perform DTC confirmation procedure again. Refer to AV-744, "DTC Description"

Is DTC U1A10 detected again?

YES >> Replace TCU. Refer to AV-771, "Removal and Installation".

NO >> INSPECTION END

U1A11 TCU

DTC Description

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DTC DETECTION LOGIC

DTC	Trouble diagnosis (Trouble diagnosis contents)	Detecting condition
U1A11	TEL MUTE OUTPUT SIGNAL NO CONN (TEL mute output signal not connection)	Malfunction is detected sound signal circuits between TCU and display control unit.

POSSIBLE CAUSE

Sound signal circuit

FAIL-SAFE

- Telematics system function stops
- When operated a telematics system, inform that cannot be connected to the INFINITI CONNECTION data center

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT

- Turn ignition switch ON.
- Erase DTC using CONSULT.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS" using CONSULT.
- Check DTC.

Is DTC U1A11 detected?

YES >> Proceed to AV-763, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013498099

1. CHECK CONTINUITY BETWEEN TCU AND DISPLAY CONTROL UNIT CIRCUIT

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

TCU		Display control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M144	31	M101	61	Existed
101144	32	IVITOT	60	LXISIEU

4. Check continuity between TCU harness connector and ground.

TCU			Continuity
Connector	Terminal	Ground	Continuity
M144	31		Not existed

Is the inspection result normal?

YES >> GO TO 2.

Revision: November 2016

NO >> Repair or replace harness or connector.

2.CHECK SOUND SIGNAL

1. Connect TCU harness connector and display control unit harness connector.

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- Turn ignition switch ON.
- Check signal between TCU harness connector terminal.

	TCU			
Connector	(+)	(-)	Condition	Reference value
Connector	Terr	minal		
M144	31	32	When inputting interior sound	(V) 1 0 -1 + 2ms SKIB3609E

Is the inspection result normal?

YES

>> Replace TCU. Refer to <u>AV-771, "Removal and Installation"</u>.
>> Replace display control unit. Refer to <u>AV-407, "Removal and Installation"</u>. NO

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT **TCU**

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TCU: Diagnosis Procedure

1.CHECK FUSE

Check if the fuse is burned out.

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Power source	Fuse No.
Battery	#7
Ignition switch ACC or ON	#1

2.0L turbo gasoline engine

Power source	Fuse No.
Battery	#84
Ignition switch ACC or ON	#93

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the fuse after repairing the applicable circuit.

2.CHECK BATTERY POWER SUPPLY

Check the voltage between the TCU harness connector and ground.

(+)					
TO	TCU		Condition	Reference value (Approx.)	
Connector	Terminal			, , , , , , , , , , , , , , , , , , ,	
M144	1	Ground	Ignition switch OFF	Battery Voltage	

Is the inspection result normal?

YES >> GO TO 3.

>> Repair or replace harness between TCU and fuse. NO

3. CHECK ACC POWER SUPPLY

Check the voltage between the TCU harness connector and ground.

(+)				D. C	
T	TCU (-)		Condition	Reference value (Approx.)	
Connector	Terminal			(11 - 7	
M144	2	Ground	Ignition switch ACC	12.0 V	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness between TCU and fuse.

4. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect TCU harness connector.
- 3. Check the continuity between TCU harness connector and ground.

TO	CU		
Connector	Terminal	Ground	Continuity
M144	28	Glound	
101144	29		Existed

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace TCU ground circuit.

< SYMPTOM DIAGNOSIS >

[TELEMATICS SYSTEM]

SYMPTOM DIAGNOSIS

TELEMATICS SYSTEM

SYMPTOM TABLE

INFOID:0000000013498101

INFINITI INTOUCH

Symptoms	Check items	Possible malfunction location/Action to take
Display control unit does not start (Display is not indicated).	_	Refer to AV-397, "Symptom Table".

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Symptoms	Check items	Indica- tor on SOS switch	Pop-up message	Possible malfunction location/Action to take
				Check ON/OFF status of TCU using the data monitor of CONSULT. Replace TCU if it is ON. Refer to AV-771, "Removal and Installation". Turn it ON again if it is OFF. Replace TCU if ON is switched to OFF. Refer to AV-771, "Removal and Installation".
		OFF	No service.	Use other cellular phone to check radio wave condition. If the service is available, replace TCU or TEL antenna. For TCU replacement, refer to AV-771, "Removal and Installation". For TEL antenna replacement, refer to AV-774, "Removal and Installation". If the service is not available, move the vehicle to the position where service is available and perform the operation again. If guidance of "out of service area" appears when SOS switch is pressed even in the service area of cellular phone, confirm the SIM line contract status.
				Configuration is incomplete. Perform configuration of TCU. Refer to AV-738. "Description".
Telematics operation is not available.	Check the display when Telematics is operated.		Telematics communication is currently busy. Please try again later.	Use other cellular phone to check radio wave condition. • If it is OK, there may be a cause at the Infiniti Connection™ Data Center. Check connection after certain time. If there is no problem at the Infiniti Connection™ Data Center, replace TCU or TEL antenna. • For TCU replacement, refer to AV-771, "Removal and Installation". • For TEL antenna replacement, refer to AV-774, "Removal and Installation". • If it is NG, check connection again after certain time.
		ON	TCU line is using.	Check connection after certain time. Replace TCU if it is frequently displayed. Refer to AV-771, "Removal and Installation".
			The connection to the call center failed.	 There may be a cause at the Infiniti Connection™ Data Center. Check connection after certain time. If there is no problem at the Infiniti Connection™ Data Center, replace TCU or TEL antenna. For TCU replacement, refer to AV-771, "Removal and Installation". For TEL antenna replacement, refer to AV-774, "Removal and Installation". Perform CONSULT self-diagnosis. Refer to AV-709, "CONSULT Function".
			"Please ask for initiation of service at your dealer"	Check the infiniti connection™ data base.
No communication with vice is available in Infin Other services are norr		iti Connec	nnection™ Response ser- ction™ service.	Check the microphone signal circuit. Refer to AV-756, "Diagnosis Procedure" or AV-758, "Diagnosis Procedure".

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[TELEMATICS SYSTEM]

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NORMAL OPERATING CONDITION

Description INFOID:0000000013498102

NOTE:

For Telematics system operation detail 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 system in the video mode.	Press "" "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.
The screen is darker.	The cabin temperature is too low.	Wait until the interior of the vehicle temperature becomes moderate.
THE Screen is darker.	The adjustment of display brightness is set to the maximum of darkness.	
The screen is brighter.	The adjustment of display brightness is set to the maximum of brightness.	Adjust the brightness setting of the display.
When looking at the screen from an angle, the screen lightens or darkens.	This is a typical phenomenon for liquid crystal displays.	
The screen is too dim. The movement is slow.	The temperature in the interior of the vehicle is less than $50^{\circ}F$ (0°C).	Wait until the interior of the vehicle temperature becomes within 50°F(0°C) to 122°F (50°C).
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.
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".
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.
A small black spot or a small bright spot appears on the screen.	This is a typical phenomenon for liquid crystal displays.	
A dot or stripe pattern appears on the screen.	Electromagnetic wave that is generated from neon billboards, high voltage electric power cables, ham radios or other radio devices equipped to other vehicles may adversely affect the screen.	This is not a malfunction.
mage lag appears on the screen.	This is a typical phenomenon for liquid crystal displays.	

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 CARWINGS™

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[TELEMATICS SYSTEM]

Symptom	Possible cause	Possible solution
	A subscription for the CARWINGS [™] service has not been established.	Sign up for a subscription to the CAR-WINGS [™] service. For details about subscriptions, contact a INFINITI dealer or visit the INFINITI CONNECTION data center website.
	The communication line is busy.	Try again after a short period of time.
The system cannot connect to the INFINITI CONNECTION data center.	The vehicle is in a location where it is difficult to receive radio waves.	When the vehicle moves to an area where radio waves can be transmitted sufficiently, communication will be restored. When the icon on the display shows that the vehicle is inside the communication area, the system can be used.
	Radio wave reception for TCU is insufficient.	When the vehicle moves to an area where radio waves can be transmitted sufficiently, communication will be restored. When the icon on the display shows that the vehicle is inside the communication area, the system can be used.
Some of the items that are displayed on the menu screen cannot be selected.	The vehicle is being driven and some menu items are disabled.	The vehicle is being driven. Stop the vehicle in a safe location and apply the parking brake before operating the functions.
Some parts of the screen are not displayed	The vehicle is being driven and some menu items are disabled.	Operate the system after stopping the vehicle in a safe location and applying the parking brake.
The system does not announce information.	The volume level is set to the minimum.	Adjust the volume level by operating the VOL switches located on the control panel or on the steering wheel switch while the system is announcing information.

REMOVAL AND INSTALLATION

TCU

Removal and Installation

INFOID:0000000013498103

REMOVAL

CAUTION:

Before replacing TCU, perform "Read/Write Configuration" to save or print current vehicle specification. For details, refer to AV-738, "Description".

- Remove the integral switch. Refer to <u>AV-410, "Removal and Installation"</u>.
- 2. Remove the screws.
- 3. Disconnect the harness connector from the TCU.
- 4. Remove the bracket screws, and then remove the TCU.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Be sure to perform "Read/Write Configuration" when replacing TCU. For details, refer to <u>AV-738</u>, "<u>Description"</u>.

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MICROPHONE

< REMOVAL AND INSTALLATION >

[TELEMATICS SYSTEM]

MICROPHONE

Removal and Installation

INFOID:0000000013498104

NOTE:

The microphone is integrated with the front microphone.

REMOVAL

- 1. Remove the map lamp assembly. Refer to INL-74, "MAP LAMP: Removal and Installation".
- 2. Disconnect the microphone and front microphone connector from the map lamp assembly.
- 3. Release the microphone and front microphone pawls, then remove the microphone assembly.

INSTALLATION

Installation is in the reverse order of removal.

TELEMATICS SWITCH

< REMOVAL AND INSTALLATION >

[TELEMATICS SYSTEM]

TELEMATICS SWITCH

Removal and Installation

INFOID:0000000013498105

REMOVAL

- 1. Remove the map lamp assembly. Refer to INL-74, "MAP LAMP: Removal and Installation".
- 2. Disconnect connectors and remove screws and connectors clip, then remove telematics switch with the map lamp assembly finisher.
- 3. Remove the telematics switch, stretching pawls of telematics switch finisher.

INSTALLATION

Installation is the reverse order of removal.

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TELEMATICS ANTENNA

< REMOVAL AND INSTALLATION >

[TELEMATICS SYSTEM]

TELEMATICS ANTENNA

Removal and Installation

INFOID:0000000013498106

REMOVAL

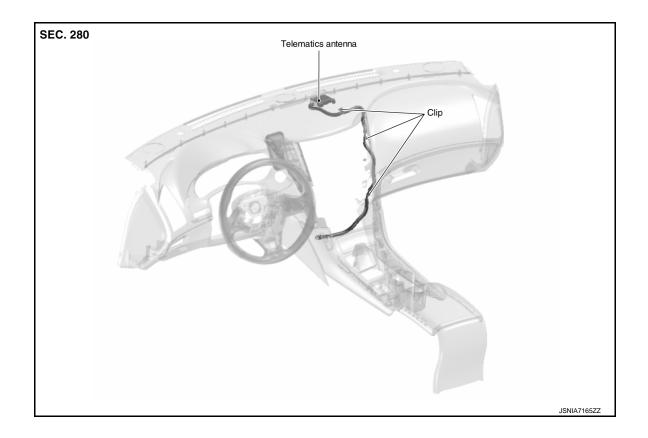
- 1. Remove the instrument panel assembly. Refer to IP-13, "Removal and Installation".
- 2. Remove the screw to remove the telematics antenna from the instrument panel.

INSTALLATION

Install in the reverse order of removal.

ANTENNA FEEDER

Feeder Layout



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