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< 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. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

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

Precaution for Trouble Diagnosis

INFOID:000000013019742

INFOID:000000013019743

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 or cables from the negative terminal or terminals before checking the circuit. Refer to <u>PG-174</u>, "Battery Disconnect".

Precaution for Harness Repair

AV COMMUNICATION SYSTEM

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



PRECAUTIONS

< PRECAUTION >

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



Precaution for Work

INFOID:000000013019744

 When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth. 	Е
 When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinvl tape to protect it. 	
 Protect the removed parts with a shop cloth and prevent them from being dropped. Replace a deformed or damaged clip. 	F
 If a part is specified as a non-reusable part, always replace it with a new one. Be sure to tighten holts and puts sequrely to the specified torque. 	
 After installation is complete, be sure to check that each part works properly. Follow the steps below to clean components: 	G
 Water soluble dirt: Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area. 	Н
Then rub with a soft, dry cloth. Oilv dirt:	
• Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.	
 Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off. Then rub with a soft dry cloth 	
 Do not use organic solvent such as thinner, benzene, alcohol or gasoline. For genuine leather seats, use a genuine leather seat cleaner. 	J
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< PREPARATION > PREPARATION

PREPARATION

Special Service Tools

INFOID:000000013019745

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

Tool number (TechMate No.) Tool name		Description
 (J-46534) Trim Tool Set	AWJIAO483ZZ	Removing trim components

Commercial Service Tools

INFOID:000000013019746

Tool name		Description
Power tool	PLIE1407E	Loosening nuts, screws and bolts

[DISPLAY AUDIO]

< SYSTEM DESCRIPTION > SYSTEM DESCRIPTION COMPONENT PARTS

Component Parts Location



No.	Component	Function	M
1.	Rear door speaker RH	Refer to <u>AV-14, "Speaker"</u> .	
2.	Microphone	Refer to <u>AV-15, "Microphone"</u> .	
3.	Audio unit	Refer to <u>AV-14, "Audio Unit"</u> .	AV
4.	Front tweeter RH	Refer to <u>AV-14, "Speaker"</u> .	
5.	Rod antenna	Refer to AV-15, "Antenna and Antenna Feeder".	0
6.	Front door speaker RH	Refer to <u>AV-14, "Speaker"</u> .	
7.	USB interface and AUX in jack	Refer to AV-15, "USB Interface and AUX In Jack".	
8.	Front tweeter LH	Refer to <u>AV-14, "Speaker"</u> .	P
9.	Front door speaker LH	Refer to <u>AV-14, "Speaker"</u> .	
10.	Combination meter	Refer to MWI-12, "METER SYSTEM : Combination Meter".	
11.	Steering switches	Refer to AV-15, "Steering Switches".	
12.	Satellite antenna	Refer to AV-15, "Antenna and Antenna Feeder".	
13.	Rear door speaker LH	Refer to <u>AV-14, "Speaker"</u> .	

Revision: March 2016

< SYSTEM DESCRIPTION >

Audio Unit

INFOID:000000013197391

[DISPLAY AUDIO]

Description

- AM/FM electronic tuner radio, CD drive and Bluetooth are integrated into the audio unit.
- The display can show audio status.
- Music files stored in iPod^{®*}/USB memory can be played using the separate USB connector.



INFOID:000000013197392

Speaker

FRONT TWEETER

- 5.1 cm (2 in) speakers are installed in the top corners of the instrument panel assembly.
- Sound signals generated by the audio unit output high range sounds.



FRONT DOOR SPEAKER

- 15.2 x 22.9 cm (6 x 9 in) speakers are installed in the bottom of the front doors.
- Sound signals generated by the audio unit output low range sounds.





- 16.5 cm (6.5 in) speakers are installed in the bottom of the rear doors.
- Sound signals generated by the audio unit output mid range sounds.



< SYSTEM DESCRIPTION >

USB Interface and AUX In Jack

- USB Interface and AUX in jack is installed in the cluster lid C lower.
- iPod[®] and USB memory can be connected to the audio unit through the USB interface.
- An external audio device can be connected to the audio unit through the AUX in jack.



Steering Switches

- Operations for audio and hands-free phone are possible.
- Switch is connected to the audio unit.



Microphone

- The microphone is installed in the front roof console.
- Power is supplied from the audio unit.



Antenna and Antenna Feeder

RADIO AND SATELLITE ANTENNAS

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[DISPLAY AUDIO]

INFOID:000000013197394

INFOID:000000013197395

INFOID:000000013197396

< SYSTEM DESCRIPTION >

AM/FM radio rod antenna is located on the right front fender. The satellite antenna is located on the front left side of the roof.



ANTENNA FEEDER



4. M188, R108

1.

5. R109

6. Satellite Antenna

SYSTEM

System Description

INFOID:000000013019750

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SYSTEM DIAGRAM



DESCRIPTION

The audio system consists of the following components:

- Audio unit
- · Front tweeters
- · Front door speakers
- · Rear door speakers
- Steering switches
- Microphone
- USB interface and AUX in jack
- Rod antenna
- Satellite antenna

When the audio system is on, AM/FM signals received by the rod antenna are sent to the audio unit. The audio unit then sends audio signals to the front tweeters, front door speakers and rear door speakers. Refer to Owner's Manual for audio system operating instructions.

HANDS-FREE PHONE SYSTEM

System Operation

NOTE:

Cellular telephones must have their wireless connection set up (paired) before using the Bluetooth[®] telephone ______

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

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

Audio Unit

When the ignition switch is turned to ACC or ON, the audio unit will power up. During power up, the audio unit is initialized and performs various self-checks. Initialization may take up to 20 seconds.

Steering Switches

When buttons on the steering switches are pushed, the resistance in steering switch circuits change, depending on which button is pushed.

The following functions can be performed using the steering switches:

• Initiate self-diagnosis of the Bluetooth[®] telephone system

SYSTEM

< SYSTEM DESCRIPTION >

- Start a voice recognition session
- Answer and end telephone calls
- Adjust the volume of calls
- Record memos

Microphone

The microphone is located in the roof console assembly. The microphone sends a signal to the audio unit.

SATELLITE RADIO FUNCTION

- Satellite radio function is built into audio unit.
- Sound signal (satellite radio) is received by satellite antenna and transmitted to audio unit. Audio unit outputs sound signal to each speaker.

USB INTERFACE AND AUX IN JACK FUNCTION

- Sound and data signals are transmitted from USB interface to the audio unit and output to each speaker and tweeter.
- Sound signals are transmitted from AUX in jack to the audio unit and output to each speaker and tweeter.

SPEED SENSITIVE VOLUME SYSTEM

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

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (AUDIO UNIT)

Description

The audio unit on board diagnosis performs the functions listed in the table below:

[DISPLAY AUDIO]

INFOID:000000013019751

Mode		Description
	Self Diagnosis	Audio unit diagnosis.Diagnoses the connections across system components.
	Display Diagnosis	The following check functions are available: color tone check by color bar display and white display, light and shade check by gray scale display.
	Vehicle Signals	Diagnosis of signals can be performed for vehicle speed, lights, reverse, EQ pin, destination and camera type.
	Speaker Test	The connection of a speaker can be confirmed by test tone.
Confirmation/ Error History Adjustment Camera System	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.
	Camera System	Guiding line position that overlaps rear view camera image can be adjust- ed.
	AV COMM Diagnosis	The communication condition of each unit of display audio system can be monitored.
	Delete Unit Connection Log	Erase the connection history of unit and error history.
	Initialize Setting	Initializes the audio unit memory.

On Board Diagnosis Function

METHOD OF STARTING

- 1. Turn the ignition ON.
- 2. Turn the audio system OFF.
- While pressing the preset 1 button, turn the volume control dial clockwise and counterclockwise quickly approximately 15 times or more. Shifting from current screen to previous screen is performed by pressing BACK button.



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

🗃 System Diagnostic Menu		A
	A	/ \
Self Diagnosis	Õ	
Confirmation / Adjustment		(
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Please select an item		
	JSNIA0138GB	

SELF DIAGNOSIS MODE

Audio Unit Self Diagnosis

1. Select Self Diagnosis.

Revision: March 2016

INFOID:000000013019752

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< SYSTEM DESCRIPTION >

[DISPLAY AUDIO]

- 2. Self diagnosis screen is displayed. The bar graph visible in center of screen indicates progress of self diagnosis.
- 3. Diagnosis results are displayed after the self diagnosis is completed. The unit names and the connection lines are color coded according to the diagnostic results.



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

- 1: Control unit (audio unit) is displayed in red.
- Replace audio unit if Self Diagnosis did not run because control unit malfunction is indicated. The symptom is audio unit internal error. Refer to <u>AV-66, "Removal and Installation"</u>.
- 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.
- Comments of self diagnosis results can be viewed in the diagnosis result screen.



Audio Unit Self Diagnosis Results

Only Unit Part Is Displayed In Red						
Screen switch	Description	Possible cause				
Control unit	Malfunction is detected in audio unit power supply and ground circuits.	 Audio unit power supply or ground circuits. Refer to <u>AV-46. "AUDIO UNIT : Diagnosis Procedure"</u>. If no malfunction is detected in audio unit power supply and ground circuits, replace audio unit. Refer to <u>AV-66. "Removal and Installation"</u>. 				

A Connecting Cable Between Units Is Displayed In Yellow						
Area with yellow connection lines	Description	Possible cause				
Control unit ⇔ Meter	 When one of the following is detected: malfunction is detected in combination meter power supply and ground circuits. malfunction is detected in AV communi- cation circuits between audio unit and combination meter. 	 Combination meter power supply or ground circuits. Refer to <u>MWI-87, "COMBINATION</u> <u>METER : Diagnosis Procedure"</u>. AV communication circuits between audio unit and combination meter. 				



< SYSTEM DESCRIPTION >

Audio Unit Confirmation/Adjustment

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



Display Diagnosis



Vehicle Signals

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

		_
Vehicle speed	OFF	
Lights	OFF	
Reverse	OFF	
EQ Pin	1	
Destination	2	
Camera Type	1	

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Speaker Test

< SYSTEM DESCRIPTION >

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

Speaker Testing Front Left Tweeter Speaker Settings -Please select an item

[DISPLAY AUDIO]

Error History

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

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

The frequency of occurrence is displayed in a count up manner. The actual count up method differs depending on the error item.

Count up method A

- The counter is set to 40 if an error occurs. 1 is subtracted from the counter if the condition is normal at a next ignition ON cycle.
- The counter lower limit is 1. The counter can be reset (no error record display) with the Delete log switch.

Count up method B

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

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



Error item

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

< SYSTEM DESCRIPTION >

Error item	Description	Possible cause	A
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.	Replace the audio unit if the malfunction occurs constantly. Refer to <u>AV-66</u> , "Removal and Installation"	E
AV COMM CIRCUIT	 When one of the following is detected: malfunction is detected in combination meter power supply and ground circuits. malfunction is detected in AV communi- cation circuits between audio unit and combination meter. 	 Combination meter power supply or ground circuits. Refer to <u>MWI-87, "COMBINATION</u> <u>METER : Diagnosis Procedure"</u>. AV communication circuits between au- dio unit and combination meter. 	C

AV COMM Diagnosis

- · Displays the communication status between audio unit (master unit) and each unit.
- The error counter displays OK if any malfunction was not detected in the past and displays 0 if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle. The upper limit of the counter is 39.
- The error counter is erased if Reset is pressed.

Items	Status (Current)	Counter (Past)
C Rx(Meter-ITM)	OK / ???	OK / 0 – 39
C Tx(ITM-TW SW)	OK / ???	OK / 0 – 39
C Rx(STW SW-ITM)	OK / ???	OK / 0 – 39



NOTE:

"???" indicates UNKWN.

Delete Unit Connection Log

Deletes any unit connection records and error records from the audio unit memory (clears the records of the unit that has been removed).





Initialize Settings Deletes data stored from the audio unit. D

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ECU DIAGNOSIS INFORMATION AUDIO UNIT

Reference Value

INFOID:000000013019753

[DISPLAY AUDIO]

TERMINAL LAYOUT



PHYSICAL VALUES

Terr (Wire	minal color)	Description		Condition		Reference value
+	_	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)
2 (L/W)	3 (L/R)	Sound signal front door speaker and front tweeter LH	Output	ON	Sound output	(V) 1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
4 (SB)	5 (B/Y)	Sound signal rear door speaker LH	Output	ON	Sound output	(V) 1 0 1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
7 (R)	Ground	ACC power supply	Input	ACC	_	Battery voltage
8 (GR)	Ground	Illumination dimming con- trol signal	Input	ON	CPM lighting ON	0 20 ms JSNIA0012GB
9 (L)	Ground	Illumination ON control sig- nal	Input	ON	Parking lamps or head- lamps ON	Battery voltage

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO]

Terr (Wire)	ninal color)	Description		Condition		Reference value	А
+	_	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)	
11 (W/B)	12 (L/B)	Sound signal front door speaker and front tweeter RH	Output	ON	Sound output	(V) 1 0 -1 2 ms SKIB3609E	B C D
13 (O/L)	14 (R/L)	Sound signal rear door speaker RH	Output	ON	Sound output	(V) 1 0 -1 • 2ms SKIB3609E	E
18 (G)	Ground	Vehicle speed signal	Input	ON	When vehicle speed is ap- prox. 40 km/h (25 MPH)	0 0 20 ms JSNIA0012GB	G
19 (W)	Ground	Battery power supply	Input	OFF	_	Battery voltage	
20 (B)	Ground	Ground		ON	_	0 V	J
28 (SB)	_	AV communication (H)	Input/ Output	_	_	_	K
29 (LG)	_	AV communication (L)	Input/ Output	_	_	_	I.
31 (SB)		AV communication (H)	Input/ Output		_	_	L
32 (LG)		AV communication (L)	Input/ Output		_	_	R./I
37 (W)	39 (Shield)	Microphone signal	Input	ON	While speaking into micro- phone.	(V) 1 0 -1 2 -1 -1 SKIB3609E	AV
38 (R)	Ground	Microphone power supply	Output	ON	_	5.0 V	P
53 (Shield)		AUX Shield			_	_	
54 (GR)	—	AUX ground	—	ON	_	0V	

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO]

Terr (Wire)	ninal color)	Description	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)
55 (G)	Ground	AUX audio signal RH	Input	ON	AUX audio signal received	(V) 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1
56 (V)	Ground	AUX audio signal LH	Input	ON	AUX audio signal received	(V) 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1
61 (B)	_	V BUS signal	_	_	_	_
63 (G)		USB D– signal	_	_	_	_
64 (W)	—	USB D+ signal	_	_	_	_
65 (R)	_	USB ground			_	_
66 (Shield)	_	USB Shield		_	_	_
68 (B)	_	AM/FM antenna signal			_	_
69 (Shield)		AM/FM antenna signal Shield	_	_	_	_
72 (B)	Ground	Satellite antenna signal	Input	ON	—	5.0 V
73 (Shield)		Satellite antenna signal shield			_	_

< WIRING DIAGRAM >



AANWA1640GB



AANWA1641GB



| DNECC | RNESS |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| TO MAIN HA |
| - | G/O | SB | ΓC | æ | - | > | ٩ | G/R | LG/B | SB | ٨L | BR | - | - | SB | BR | BG | ΡΛ | Y/GR | > | BR/Y | G/W | 1 | SHIELD | В | - | R | M | L/G | 0 | 1 | SHIELD | ŋ | 1 | RW | LW | SHIELD | 8 | SHIELD | OL | SHIELD | BR | LW | - | 1 | 1 | SHIELD | LG/B | в | SHIELD | GR/B | 8 |
| 180 | 291 | 30J | 31J | 32J | 33J | 34J | 35J | 36J | 37J | 38.1 | 39.1 | 401 | 41J | 42J | 43J | 44J | 45J | 46J | 47J | 48J | 49J | 50J | 51J | 52J | 53J | 54J | 55J | 56J | 57J | 58J | 59J | 60J | 61J | 62J | 63.1 | 64J | 65J | 66J | F19 | 68J | 69 | L07 | L17 | 72.1 | 72.1 | 73J | 74.J | 75J | 76J | L77 | 78.J | L97 |

B69	IE WIRE TO WIRE	TH80MW-CS16-TM4	or WHITE		54 44 34 22 14 100 89 88 77 65	211/201/92/181/171/161/152/142/172/1711 301/259/282/271/251/251/251/221/223/222	411 400 339 381 371 382 333 341 331 331 311 501 431 431 431 451 451 441 431 421	611 601 591 581 571 561 550 541 531 521 511 701 561 561 561 551 551 551 531 521 511	811 801 791 781 771 761 751 751 771 731 721 711	90.1 89.1 87.1 86.1 85.1 84.1 83.1 82.1	95.1 94.1 93.1 92.1 91.1	100/ 331/ 361/ 361		or of	Vire Signal Name	P TO MAIN HARNESS	3/Y TO MAIN HARNESS	L TO MAIN HARNESS	70 MAIN HARNESS	G/Y TO MAIN HARNESS	VLG TO MAIN HARNESS	3/BR TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	L TO MAIN HARNESS	B/O TO MAIN HARNESS	Y TO MAIN HARNESS	- TO MAIN HARNESS	R TO MAIN HARNESS	TO MAIN HARNESS	G IU MAIN HAHNESS SP TO MAIN HAPNESS	D TO MAIN HARNESS	70 MAIN HARNESS	//R TO MAIN HARNESS	P TO MAIN HARNESS	W TO MAIN HARNESS
Connector No.	Connector Nam	Connector Type	Connector Colc	F	H.S.									Terminal	No.	L1	21	31	14 1	8 8	71	8J SE	- 		12	13J S	14J	15J	16J	161		191	201	21J	22J	23.1
B6	WIRE TO WIRE	TK10FW-NS8	WHITE		109876514321 1817161514131211		of Signal Name	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS TO REAR DOOR I H HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS																			

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DISPLAY AUDIO SYSTEM CONNECTORS

Connector No. Connector Name Connector Type Connector Color

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TO MAIN HARNESS TO MAIN HARNESS

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< WIRING DIAGRAM >	

TO MAIN HARNESS TO MAIN HARNESS

-Y/B G B/R SHIELD GR/R

SB LB

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TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS

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TO MAIN HARNESS TO MAIN HARNESS

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H.S.

Color of Wire

Terminal No.

B

Connecto	r No.	B106	Connector N	О	149	23A	Y/LG	TO MAIN HARNESS	76A	GR/R	TO MAIN HARN
Connecto	r Name	WIRE TO WIRE	Connector N	ame V	VIBE TO WIBE	24A	BRY	TO MAIN HARNESS	77A	-	TO MAIN HARN
Connecto	Two	TK10FWLNC8	Connector T		HROMIDGV-CS16-TMM	25A	•	TO MAIN HARNESS	78A	SHIELD	TO MAIN HARN
Connocto	r Color		Connotor			26A	5		/9A		TO MAIN HARN
	0000			5		284	1 G/B	TO MAIN HARNESS	81A	- a	TO MAIN HARN
INTER			(494)			29A	•	TO MAIN HARNESS	82A	SHIELD	TO MAIN HARN
N N	L		Ы			30A	'	TO MAIN HARNESS	83A	LG/B	TO MAIN HARN
5		10 9 8 7 6 5 4 3 2 1	<u>.</u>		54 44 34 24 14	31A	W/R	TO MAIN HARNESS	84A	æ	TO MAIN HARN
		18 17 16 15 14 13 12 11			70.4 SA 7A 64	32A	G/R	TO MAIN HARNESS	85A	SHIELD	TO MAIN HARN
						33A	1	TO MAIN HARNESS	86A	GR/B	TO MAIN HARN
				41Z	204 194 194 174 164 154 144 144 134 124 114 304 294 294 274 264 254 254 234 234 224	34A	SHIELD	TO MAIN HARNESS	87A	в	TO MAIN HARN
Terminal	Color o	If Signal Name		414	40a 38a 38a 37A 36a 35a 34a 33a 33a 32a 31a	35A 36A	<u>م</u> ه	TO MAIN HARNESS TO MAIN HARNESS	88A 89A	8HIELD	TO MAIN HARN TO MAIN HARN
No.	Wire	0			50A 49A 48A 47A 46A 45A 44A 43A 42A	37A	•	TO MAIN HARNESS	90A	σ	TO MAIN HARN
-	'	TO REAR DOOR RH HARNESS		61A	60A 59A 58A 57A 56A 55A 54A 53A 52A 51A	38A	R/B	TO MAIN HARNESS	91A	WL	TO MAIN HARN
~ ~	'	TO REAR DOOR RH HARNESS			704 694 684 674 664 654 644 634 634	39A	G/O	TO MAIN HARNESS	92A	BR	TO MAIN HARN
•	'			81A	800 798 788 778 768 758 748 738 728 718	40A	>	TO MAIN HARNESS	93A	Ż	TO MAIN HARN
4 r	'				479 459 459 459 459 459 459 459 459 459 45	41A	SHIELD	TO MAIN HARNESS	94A	R/L	TO MAIN HARN
c 4	' '	TO PEAP DOOR HH HAHNESS			95A 94A 93A 92A 91A	42A	SHIELD	TO MAIN HARNESS	95A	BR	TO MAIN HARN
					1004 994 988 97A 96A	43A	œ	TO MAIN HARNESS	96A	œ	TO MAIN HARN
- «	5	TO REAR DOOR RH HARNESS]	44A	σ	TO MAIN HARNESS	97A	ΓG	TO MAIN HARN
		TO BEAP DOOP BH HABNESS				45A	'	TO MAIN HARNESS	98A	BN	TO MAIN HARN
, ¢		TO REAR DOOR BH HARNESS				46A	1	TO MAIN HARNESS	A60	OL	TO MAIN HARN
2 =	N	TO REAR DOOR RH HARNESS	Terminal	Color of		47A	>	TO MAIN HARNESS	100A	BR/W	TO MAIN HARN
: :	2 2	TO BEAP DOOP BH HABNESS	N N	Wire	Signal Name	48A	R/W	TO MAIN HARNESS			
13	A/LG	TO REAR DOOR RH HARNESS	14	SB/G	TO MAIN HARNESS - WITHOUT	49A	RL	TO MAIN HARNESS			
14	BB/O	TO REAR DOOR RH HARNESS	:		CLIMATE CONTROLLED SEATS)	50A		TO MAIN HARNESS			
15	2 8	TO REAR DOOR RH HARNESS	1A	SB	TO MAIN HARNESS -(WITH CLIMATE CONTROLLED SEATS)	51A	'	TO MAIN HARNESS			
16	SB/R	TO REAR DOOR RH HARNESS	24	-	TO MAIN HARNESS	A20	'	TO MAIN HARNESS			
17	-	TO REAR DOOR RH HARNESS	A P	- >	TO MAIN HARNESS	A50		TO MAIN HARNESS TO MAIN HADNESS			
18	>	TO REAR DOOR RH HARNESS	4A	SB/R	TO MAIN HARNESS	55A	, ,	TO MAIN HARNESS			
			5A	1	TO MAIN HARNESS	56A	'	TO MAIN HARNESS			
			6A	LGY	TO MAIN HARNESS -(WITHOUT	57A	1	TO MAIN HARNESS			
			ve	0	TO MAIN HADNESS - MATH	58A	'	TO MAIN HARNESS			
			5	}	CLIMATE CONTROLLED SEATS)	59A	1	TO MAIN HARNESS			
			7A	×	TO MAIN HARNESS	60A	GW	TO MAIN HARNESS			
			8A	m	TO MAIN HARNESS	61A	'	TO MAIN HARNESS			
			94	8 :	TO MAIN HARNESS	V59		TO MAIN HADNESS			
			AUL	× -	TO MAIN HARNESS	64A	,	TO MAIN HARNESS			
			A11	5	TO MAIN HAHNESS	654		TO MAIN HARNESS			
			124	N/M	TO MAIN HARNESS TO MAIN HARNESS	66A		TO MAIN HARNESS			
			461		TO MAIN HADNESS	67A	,	TO MAIN HARNESS			
			15A	7/1	TO MAIN HARNESS	68A	'	TO MAIN HARNESS			
			16A	ν	TO MAIN HARNESS	69A	Y/R	TO MAIN HARNESS			
			17A	_	TO MAIN HARNESS	70A	R/G	TO MAIN HARNESS			
AA			18A	7	TO MAIN HARNESS	71A	'	TO MAIN HARNESS			
NIA			19A	ГG	TO MAIN HARNESS	72A	Y/B	TO MAIN HARNESS			
.498			20A	BR/Y	TO MAIN HARNESS	73A	σ	TO MAIN HARNESS			
2GE			21A	BG	TO MAIN HARNESS	74A	B/B eulci D	TO MAIN HARNESS			
3			22A	LG/R	TO MAIN HARNESS	HC1	SHIELU	I U MAIN HAHNESS			

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Signal Name	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEATS)	TO MAIN HARNESS -(WITH CLIMATE CONTROLLED SEATS)	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEATS)	TO MAIN HARNESS -(WITH CLIMATE CONTROLLED SEATS)	TO MAIN HARNESS																			
Color of Wire	SB/G	SB	Ч	>	SB/R		ГGY	ГG	M	8	L/B	M	ГG	BR/O	٨W	R/G	٨٦	OL	_	۲	ΓC	BR/Y	BG	LG/R
Terminal No.	1A	1A	2A	ЗА	4A	5A	6A	6A	7A	8A	94	10A	11A	12A	13A	14A	15A	16A	17A	18A	19A	20A	21A	22A

TO MAIN HARNESS																									
GR/R	L	SHIELD	٨	L	ж	SHIELD	LG/B	В	SHIELD	GR/B	В	W	SHIELD	IJ	W/L	BR	ΓΛ	R/L	BR	æ	LG	BN	O/L	BR/W	
76A	A77	78A	79A	80A	81A	82A	83A	84A	85A	86A	87A	88A	89A	90A	91A	92A	93A	94A	95A	96A	97A	98A	99A	100A	

TO MAIN HARNESS	TO MAIN LADNESS																							
GR/R	L	SHIELD	7	_	æ	SHIELD	LG/B	н	SHIELD	GR/B	8	M	SHIELD	σ	W/L	BB	ΓΛ	R/L	BR	æ	ГG	BN	OLL	NV aa
76A	77A	78A	79A	80A	81A	82A	83A	84A	85A	86A	87A	88A	89A	90A	91A	92A	93A	94A	95A	96A	97A	98A	99A	1004

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Connector No.	o. D2	0	Connector	.No.	101	Connector	No.	1201	Connector I	No.	0301	-
Connector Na	ame WI	IRE TO WIRE	Connector	Name V	VIRE TO WIRE	Connector	Name V	VIRE TO WIRE	Connector I	Name V	WIRE TO WIRE	-
Connector Typ	pe NS	S16FW-CS	Connector	Type 1	IS10FW-CS	Connector	Type 1	K10MW-NS8	Connector 7	Type 1	FK10MW-NS8	· · ·
Connector Co	olor Wh	НТЕ	Connector	Color V	VHITE	Connector	Color V	VHITE	Connector (Color V	NHITE	
لط الط			den			백			백			1
H.S.	7 6 16 15	5 4 3 2 1 14 13 12 11 10 9 8	H.S.		4 3 2 1 10 9 8 7 6 5	H.S.	-=	2 3 4 5 = 6 7 8 9 10 12 13 14 15 16 7 18 9 10	H.S.		2 3 4 5 6 7 8 9 10 1 12 13 14 15 16 17 18	
J												
Terminal Co	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	
-	B/W	TO MAIN HARNESS	-	B/W	TO MAIN HARNESS	-	1	TO BODY HARNESS	-		TO BODY NO. 2 HARNESS	, , , , , , , , , , , , , , , , , , ,
2	G/B	TO MAIN HARNESS	2	8	TO MAIN HARNESS	2	1	TO BODY HARNESS	2	1	TO BODY NO. 2 HARNESS	,
e	-	TO MAIN HARNESS	e	WL	TO MAIN HARNESS	e	1	TO BODY HARNESS	e	ı	TO BODY NO. 2 HARNESS	
4	œ	TO MAIN HARNESS	4	>	TO MAIN HARNESS	4	1	TO BODY HARNESS	4	'	TO BODY NO. 2 HARNESS	
ŝ	W/R	TO MAIN HARNESS	S	W/B	TO MAIN HARNESS	ŝ	1	TO BODY HARNESS	ŝ	'	TO BODY NO. 2 HARNESS	
9	٨/L	TO MAIN HARNESS	9	G√	TO MAIN HARNESS	9	1	TO BODY HARNESS	9	1	TO BODY NO. 2 HARNESS	
7	>	TO MAIN HARNESS	2	W/B	TO MAIN HARNESS	7	1	TO BODY HARNESS	7		TO BODY NO. 2 HARNESS	
80	в	TO MAIN HARNESS	80	RВ	TO MAIN HARNESS	ø	OL	TO BODY HARNESS	8	оľ	TO BODY NO. 2 HARNESS	
6	N	TO MAIN HARNESS	6	GV	TO MAIN HARNESS	6	1	TO BODY HARNESS	6	,	TO BODY NO. 2 HARNESS	- ,
10	щ	TO MAIN HARNESS	10	1	TO MAIN HARNESS	10	1	TO BODY HARNESS	10	'	TO BODY NO. 2 HARNESS	
£	N	TO MAIN HARNESS				E	ΒΛ	TO BODY HARNESS	F	RL	TO BODY NO. 2 HARNESS	
12	_	TO MAIN HARNESS	Connector	No.	112	12	SB	TO BODY HARNESS	12	OL	TO BODY NO. 2 HARNESS	
13	>	TO MAIN HARNESS	Connector	Name	HUNT DOOR SPEAKER BH	13	BB	TO BODY HARNESS	13	>	TO BODY NO. 2 HARNESS	
14	SB	TO MAIN HARNESS				14	7	TO BODY HARNESS	14	BR	TO BODY NO. 2 HARNESS	
15	^	TO MAIN HARNESS	Connector	Iype	ASUZEW-CS	15	8	TO BODY HARNESS	15	в	TO BODY NO. 2 HARNESS	
16	ГG	TO MAIN HARNESS	Connector	Color \	VHITE	16	BR	TO BODY HARNESS	16	BR	TO BODY NO. 2 HARNESS	-
			E			17	>	TO BODY HARNESS	17	>	TO BODY NO. 2 HARNESS	
Connector No.	D	12				18	>	TO BODY HARNESS	18	>	TO BODY NO. 2 HARNESS	_
Connector Na	ame FR	3ONT DOOR SPEAKER LH	H.S.									r
Connector Tvc	De	302FW-CS			2 1	Connector	No.	1207	Connector I	No.	0307	
Connector Co	Nhor WF	HITE				Connector	Name F	REAR DOOR SPEAKER LH	Connector I	Name F	REAR DOOR SPEAKER RH	
						Connector	Type N	IS02FW-CS	Connector 7	Type h	VS02FW-CS	
1444hh				•		Connector	Color V	VHITE	Connector (Color V	NHITE	
H.S.			No.	Vire	Signal Name	Ē			Ē			1
		7	-	W/B	FR SPEAKER +							
		- 7	2	ГЛВ	FR SPEAKER -	H.S.			H.S.			
								2 1			2 1	
Terminal Co	color of	Signal Name										
No.	Wire											
		FR SPEAKER LH -				Ierminal	Color of Wire	Signal Name	Ierminal	Color of Wine	Signal Name	
AZ	5					-	SB BB	RR LH OUT +	-	OVF	RR RH OUT -	
ANI						2	B√	RR LH OUT -	2	Ъ	RR RH OUT +	-
A49												7
83GB												

< WIRING DIAGRAM >

Revision: March 2016

DISPLAY AUDIO SYSTEM CONNECTORS

G TO ROOM LAMP HARNES					1/R TO BOOM I AMP HABNESS	- TO ROOM I AMP HARNESS	P TO BOOM I AMP HARNESS	W/L TO ROOM LAMP HARNESS	W/B TO ROOM LAMP HARNESS	- TO ROOM LAMP HARNESS	- TO ROOM LAMP HARNESS	- TO ROOM LAMP HARNESS	- TO ROOM LAMP HARNESS	- TO ROOM LAMP HARNESS	- TO ROOM LAMP HARNESS	- TO ROOM LAMP HARNESS	TO ROOM LAMP HARNESS	G/R TO ROOM LAMP HARNESS	G/W TO ROOM LAMP HARNESS	LG/B TO ROOM LAMP HARNESS			ector No. M3	ector Name FUSE BLOCK (J/B)	ector Type CS06FW-M2	ector Color WHITE				8N 7N 6N 5N 4N			inal Color of	. Wire Signal Name	I O IGN	I W BATTERY	W IGNITION	V BAITERY	W BATTERY	L ACC RELAY OUT	W IGNITION	-					
			2		2 ¥		ļ		20	21	22	8	5	25	26	21	50	53	Ř	6	ñ	(Conn	Conn	Conne	Conn	E		Ľ				Term	ž	+	2	é	4	5 6		8						
TO MAIN HAHNESS	TO MAIN HARNESS		TO MAIN HARNESS	TO MAIN HADNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HABNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HADNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS		11	VIRE TO WIRE	H32FW-NH	VHITE				12 11 10 9 8 7 6 5 4 3 2 20 27 26 24 20 20 24 20 40 40 40 40	01 81 07 17 77 07 47 07 07 17 07			Signal Name	TO ROOM LAMP HARNESS	TO ROOM I AMP HARNESS						
L/W	SHIELU	× c	r G		> >		<u>م</u>	:	ш	-	-	W/B	B/R	W/B	Р	L	g	σ	٨/W	BR	5 C	5 >	: œ	W/B	BR	GR/W		No.	Name V	Type T	Color V				16 15 14 13 20 24 20 20	67 nc 1c 7c		Color of	Wire	SHIELD	н	w	SB	G/W	G/R	в	_
72G	740	54/	56/	507	786	296	BUG	81G	82G	83G	84G	85G	86G	87G	88G	89G	90G	91G	92G	93G	940	596	97G	98G	99G	100G		Connector	Connector	Connector	Connector	le l		H.S.				Tominol	No.	-	2	3	4	5	9	7	æ
T		T	T	T	T	T			1	T	T	T	T						 							T		T						,	I					T	T	T	Г				
TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HADNESS	TO MAIN HARNESS	TO MAIN HARNESS - (WITH	CUMMINS 5.0L)	TO MAIN HARNESS - (WITH	VK56VU) TO MANN HADNES	TO MAIN HAPPIESS	TO MAIN HARNESS	TO MAIN LIADNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS - (WITH	TO MAIN HARNESS - MITH	VK56VD)	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HAPNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HABNESS
G/B	MY a	r <u>-</u>	2 0		n van	•		æ	6	- 5	71	5	H/P	RW	B	BB	,	R/G	0	æ	ď	5	RN	J	n LG	r 3	× 1	BR	œ	L	N	> 0	s ⊃	: >	BG	BG	BG	m	> 4	H N	W/B	BG	BG	8	7		wa
24G	5962	507	5/2	500	906	316		31G	Juc	520	590	040	966	37G	38G	39G	40G	41G	42G	43G	43G	524	44G	45G	46G	4/6	49G	50G	51G	52G	53G	54G	55G	57G	58G	59G	60G	61G	62G	5920	65G	990	67G	68G	69G	70G	71G
																														т т	L_																
52	RE TO WIRE	180MW-CS16-TM4	HTF	1				5G 4G 3G 2G 1G	106 86 76 66	16/196/186/176/166/156/146/136/126/116	1G 29G 28G 27G 26G 26G 24G 23G 22G	16/396/386/376/386/356/346/336/326/316	0G 49G 48G 47G 46G 45G 44G 43G 42G	36 596 586 576 566 556 546 536 526 516	06696686676666666666666666666	00790780770760750740730720710	06896886876866856846836826	95G 94G 93G 97G 91G	1006 396 386 976 366					Signal Name	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS - (WIT VK56VD)	TO MAIN HARNESS - (WIT	CUMMINS 5.0L)	TO MAIN HARNESS TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS
lo. E1	Jame WI	VDe TH	Color WI							216/20	×	416/40	8	61G 60		81680	8						Polor of	Wire	0	B/B	W/B	BR/W	BB	٩.	RW	>	> 0	5 œ	×	R/G	W/B	H	4/B	5 0	e∨	GN	٨٨	GΛ	ΒΛ	G/R	Y/R
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Revision: March 2016

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PKB SW AS BELT SW DR BELT SW

DISPLAY AUDIO SYSTEM CONNECTORS

Control Mile Control C	Connector N	_	M31	27G	2	TO ENGINE ROOM HARNESS	806	н	TO ENGINE ROOM HARNESS
Image: constraint many particular particula	Connoctor N			28G	G/B	TO ENGINE ROOM HARNESS	81G	L	TO ENGINE ROOM HARNESS
Matrix Consider type Consider type </td <td></td> <td></td> <td></td> <td>29G</td> <td>G/B</td> <td>TO ENGINE ROOM HARNESS</td> <td>82G</td> <td>œ</td> <td>TO ENGINE ROOM HARNESS</td>				29G	G/B	TO ENGINE ROOM HARNESS	82G	œ	TO ENGINE ROOM HARNESS
Control MITE Crosente Coort Mentalisa Crosente Coort Mentalisa Crosente Coort Mentalisa 100 10	Connector T	ype	TH80FW-CS16-TM4	30G	BR/Y	TO ENGINE ROOM HARNESS	83G	L	TO ENGINE ROOM HARNESS
	Connector C	olor	WHITE	31G	н	TO ENGINE ROOM HARNESS	84G	L	TO ENGINE ROOM HARNESS
				32G	В	TO ENGINE ROOM HARNESS	85G	W	TO ENGINE ROOM HARNESS
				33G	٨L	TO ENGINE ROOM HARNESS	86G	B/R	TO ENGINE ROOM HARNESS
Image: Market in the stand of the	SH			34G	GR	TO ENGINE ROOM HARNESS	87G	W	TO ENGINE ROOM HARNESS
			16 26 36 46 56	35G	G/R	TO ENGINE ROOM HARNESS	88G	σ	TO ENGINE ROOM HARNESS
100 000 0 000000000000000000000000000000000000			6G 7G 8G 9G 10G	36G	ß	TO ENGINE ROOM HARNESS	89G	٩	TO ENGINE ROOM HARNESS
				37G	R/W	TO ENGINE ROOM HARNESS	90G	G	TO ENGINE ROOM HARNESS
			16 126 136 146 156 186 176 186 196 206 216	38G	BR	TO ENGINE ROOM HARNESS	91G	Р	TO ENGINE ROOM HARNESS
Image: construction of the construction of				39G	BR	TO ENGINE ROOM HARNESS	92G	N/N	TO ENGINE ROOM HARNESS
Image: construction Construction Construction Construction And metal And metal Construction			16 326 336 346 356 366 376 386 396 406 416	40G		TO ENGINE ROOM HARNESS	93G	BR	TO ENGINE ROOM HARNESS
International (Marcine) Construction (Marcine)			42G43G44G45G46G47G48G49G50G	41G	R/G	TO ENGINE ROOM HARNESS	94G	8	TO ENGINE ROOM HARNESS
Implementation 1 C Description 1 Description Description <thdescription< th=""></thdescription<>		<u> </u>	11652653654655656657658659660616	42G	0	TO ENGINE ROOM HARNESS	95G	g	TO ENGINE ROOM HARNESS
Internet (1) Internet (2) Internet (2)<			62G 63G 64G 65G 66G 67G 68G 69G 70G	43G	ß	TO ENGINE ROOM HARNESS	96G	В	TO ENGINE ROOM HARNESS
Implicit Construction			19726736746756786776786726866866816	44G	RN	TO ENGINE ROOM HARNESS	97G	в	TO ENGINE ROOM HARNESS
Implicitation Implicit			82G83G84G85G85G85G85G85G88G89G90G	45G	σ	TO ENGINE ROOM HARNESS	98G	W/B	TO ENGINE ROOM HARNESS
Production CID Charactere CID Charact				46G	ГG	TO ENGINE ROOM HARNESS	996	œ	TO ENGINE ROOM HARNESS
Image: Interfere Continuences Image: Interfere Continuences Image:			91G 92G 93G 94G 95G	47G	æ	TO ENGINE ROOM HARNESS	100G	GR/W	TO ENGINE ROOM HARNESS
Terminal Color of a la Signal Name Color of a la Signal Name No. Signal Name Signal Name Color of a la Signal Name Color of a la Signal Name 10 a la To Flokike Floomi HARKESS L To Flokike Floomi HARKESS 20 b la To Flokike Floomi HARKESS L To Flokike Floomi HARKESS 20 b la To Flokike Floomi HARKESS L To Flokike Floomi HARKESS 20 b la To Flokike Floomi HARKESS G To Flokike Floomi HARKESS 20 b la To Flokike Floomi HARKESS G To Flokike Floomi HARKESS 20 b la To Flokike Floomi HARKESS G To Flokike Floomi HARKESS 20 b la To Flokike Floomi HARKESS G To Flokike Floomi HARKESS 20 c To Flokike Floomi HARKESS G To Flokike Floomi HARKESS 20 c To Flokike Floomi HARKESS G To Flokike Floomi HARKESS 20 c To Flokike Floomi HARKESS G To Flokike Floomi HARKESS			96G 97G 98G 99G 100G	48G	M	TO ENGINE ROOM HARNESS			
Terminal Nu. Color of Nue Signat Name Terminal Nu. Color of Nue Signat Name Nu. Nue Signat Name 10 a TORINGE ROOM HARRESS 26 N TO RIONIE ROOM				49G	1	TO ENGINE ROOM HARNESS			
Image: Marking and Marking Markina Markina Marking Marking Marking Marking Marking Marking Mark				50G	BR	TO ENGINE ROOM HARNESS			
Terminal No. Color of Mare Signal Name Color Mantess No. Mare Formular FOOM HARRESS For No To Ensure FOOM HARRESS 26 B To FORMIRE FOOM HARRESS 560 V To Ensure FOOM HARRESS 36 W TO Ensure FOOM HARRESS 560 V TO Ensure FOOM HARRESS 36 W TO Ensure FOOM HARRESS 560 V TO Ensure FOOM HARRESS 36 W TO Ensure FOOM HARRESS 560 V TO Ensure FOOM HARRESS 36 FM TO Ensure FOOM HARRESS 560 B TO Ensure FOOM HARRESS 36 FM TO Ensure FOOM HARRESS 560 B TO Ensure FOOM HARRESS 36 FM TO Ensure FOOM HARRESS 560 V TO Ensure FOOM HARRESS 36 FM TO Ensure FOOM HARRESS 560 V TO Ensure FOOM HARRESS 36 FM TO Ensure FOOM HARRESS 560 V TO Ensure FOOM HARRESS 36 FM TO Ensure FOOM HARRESS 560				51G	ч	TO ENGINE ROOM HARNESS			
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(1) (2) <td>No.</td> <td>Wire</td> <td>Signal Naille</td> <td>53G</td> <td>×</td> <td>TO ENGINE ROOM HARNESS</td> <td></td> <td></td> <td></td>	No.	Wire	Signal Naille	53G	×	TO ENGINE ROOM HARNESS			
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30 W TO ENGINE FOOM HARNESS 960 W TO ENGINE FOOM HARNESS 60 BM TO ENGINE FOOM HARNESS 960 BG TO ENGINE FOOM HARNESS 61 B TO ENGINE FOOM HARNESS 960 BG TO ENGINE FOOM HARNESS 76 Y TO ENGINE FOOM HARNESS 960 BG TO ENGINE FOOM HARNESS 76 Y TO ENGINE FOOM HARNESS 960 BG TO ENGINE FOOM HARNESS 961 R TO ENGINE FOOM HARNESS 960 D TO ENGINE FOOM HARNESS 962 W TO ENGINE FOOM HARNESS 960 D TO ENGINE FOOM HARNESS 963 W TO ENGINE FOOM HARNESS 960 D TO ENGINE FOOM HARNESS 160 W TO ENGINE FOOM HARNESS 960 M/L TO ENGINE FOOM HARNESS 161 K TO ENGINE FOOM HARNESS 960 M/L TO ENGINE FOOM HARNESS 162 V/L TO ENGINE FOOM HARNESS 960 M/L TO ENGINE FOOM HARNESS 163 V/L TO E	2G	B/R	TO ENGINE ROOM HARNESS	55G	σ	TO ENGINE ROOM HARNESS			
40 BI/W TO ENGINE FOOM HARNESS 60 B/N TO ENGINE FOOM HARNESS 61 P TO ENGINE FOOM HARNESS 62 P TO ENGINE FOOM HARNESS 63 P TO ENGINE FOOM HARNESS 64 P TO ENGINE FOOM HARNESS 66 P TO ENGINE FOOM HARNESS 60 P TO ENGINE FOOM HARNESS 60 P TO ENGINE FOOM HARNESS 60 P TO ENGINE FOOM HARNESS 100 P TO ENGINE FOOM HARNESS 1010 P TO ENGINE FOOM HARNESS 102 P TO ENGINE FOOM HARNESS 103 P TO ENGINE FOOM HARNESS 104 P TO ENGINE FOOM HARNESS 105 W/B TO ENGINE FOOM HARNESS 104 P TO ENGINE FOOM HARNESS 105 W/B <	3G	8	TO ENGINE ROOM HARNESS	56G	>	TO ENGINE ROOM HARNESS			
61 D1 TO ENGINE FOOM HARNESS 690 BG TO ENGINE FOOM HARNESS 76 PW TO ENGINE FOOM HARNESS 690 BG TO ENGINE FOOM HARNESS 86 G TO ENGINE FOOM HARNESS 610 D ENGINE FOOM HARNESS 96 F TO ENGINE FOOM HARNESS 610 D ENGINE FOOM HARNESS 110 PLG TO ENGINE FOOM HARNESS 610 D ENGINE FOOM HARNESS 110 PLG TO ENGINE FOOM HARNESS 610 D ENGINE FOOM HARNESS 1110 PLG TO ENGINE FOOM HARNESS 610 M/L TO ENGINE FOOM HARNESS 1120 MM TO ENGINE FOOM HARNESS 610 M/L TO ENGINE FOOM HARNESS 1240 W TO ENGINE FOOM HARNESS 610 M/L TO ENGINE FOOM HARNESS 1260 W TO ENGINE FOOM HARNESS 610 M/L TO ENGINE FOOM HARNESS 1261 W TO ENGINE FOOM HARNESS 610 M/L TO ENGINE FOOM HARNESS 1262 W TO ENGINE FOOM HARNESS 610 TO ENGINE	4G	BR/W	TO ENGINE ROOM HARNESS	57G	>	TO ENGINE ROOM HARNESS			
0 0	5G	BR	TO ENGINE ROOM HARNESS	58G	BG	TO ENGINE ROOM HARNESS			
76 Y 70 ENGINE FOOM HARNESS 603 BG 70 ENGINE FOOM HARNESS 86 R 0 ENGINE FOOM HARNESS 20 0 ENGINE FOOM HARNESS 103 W 10 ENGINE FOOM HARNESS 20 0 10 ENGINE FOOM HARNESS 113 R/G 10 ENGINE FOOM HARNESS 23 W 10 ENGINE FOOM HARNESS 114 R/G 10 ENGINE FOOM HARNESS 646 W/L 10 ENGINE FOOM HARNESS 116 R/G 10 ENGINE FOOM HARNESS 640 10 ENGINE FOOM HARNESS 116 R/G 10 ENGINE FOOM HARNESS 640 10 ENGINE FOOM HARNESS 116 V/G 10 ENGINE FOOM HARNESS 640 10 ENGINE FOOM HARNESS 116 V/G 0 10 ENGINE FOOM HARNESS 640 10 ENGINE FOOM HARNESS 116 V/G 0 10 ENGINE FOOM HARNESS 640 0 10 ENGINE FOOM HARNESS 116 V/G 0 10 ENGINE FOOM HARNESS 640 10 ENGINE FOOM HARNESS 116 V/G 0 10 ENGINE FOOM HARNESS <t< td=""><td>6G</td><td>R/W</td><td>TO ENGINE ROOM HARNESS</td><td>59G</td><td>g</td><td>TO ENGINE ROOM HARNESS</td><td></td><td></td><td></td></t<>	6G	R/W	TO ENGINE ROOM HARNESS	59G	g	TO ENGINE ROOM HARNESS			
0 0	7G	>	TO ENGINE ROOM HARNESS	60G	BG	TO ENGINE ROOM HARNESS			
06 R TO ENGINE FOOM HARNESS 023 W TO ENGINE FOOM HARNESS 116 R/G N/G TO ENGINE FOOM HARNESS 663 W TO ENGINE FOOM HARNESS 126 W/G TO ENGINE FOOM HARNESS 663 W/G TO ENGINE FOOM HARNESS 136 B/R TO ENGINE FOOM HARNESS 663 W/G TO ENGINE FOOM HARNESS 136 G W/G TO ENGINE FOOM HARNESS 663 W/G TO ENGINE FOOM HARNESS 136 G/M TO ENGINE FOOM HARNESS 663 B/G TO ENGINE FOOM HARNESS 146 W/G TO ENGINE FOOM HARNESS 663 B/G TO ENGINE FOOM HARNESS 156 G TO ENGINE FOOM HARNESS 663 B/G TO ENGINE HARNESS 166 G TO ENGINE FOOM HARNESS 663 B/G TO ENGINE HARNESS 176 G TO ENGINE FOOM HARNESS 773 L TO ENGINE HARNESS 176 G TO ENGINE FOOM HARNESS 773 L TO ENGINE HARNESS 2064	86	σ	TO ENGINE ROOM HARNESS	61G	0	TO ENGINE ROOM HARNESS			
ID W TO ENGINE FOOM HARNESS 63 O TO ENGINE FOOM HARNESS 126 R/G TO ENGINE FOOM HARNESS 64 W/L TO ENGINE FOOM HARNESS 136 B TO ENGINE FOOM HARNESS 65 W/L TO ENGINE FOOM HARNESS 136 B TO ENGINE FOOM HARNESS 65 W/L TO ENGINE FOOM HARNESS 146 Y/B TO ENGINE FOOM HARNESS 66 B TO ENGINE FOOM HARNESS 156 G TO ENGINE FOOM HARNESS 67 D TO ENGINE FOOM HARNESS 156 G TO ENGINE FOOM HARNESS 67 D TO ENGINE FOOM HARNESS 156 G TO ENGINE FOOM HARNESS 67 D TO ENGINE FOOM HARNESS 156 G/W TO ENGINE FOOM HARNESS 70 D TO ENGINE FOOM HARNESS 156 G/W TO ENGINE FOOM HARNESS 70 TO ENGINE FOOM HARNESS 157 G/W TO ENGINE FOOM HARNESS 71 TO ENGINE FOOM HARNESS 156 G/W TO ENGINE FOOM HARNESS 71 <td>90</td> <td>œ</td> <td>TO ENGINE ROOM HARNESS</td> <td>62G</td> <td>></td> <td>TO ENGINE ROOM HARNESS</td> <td></td> <td></td> <td></td>	90	œ	TO ENGINE ROOM HARNESS	62G	>	TO ENGINE ROOM HARNESS			
110 PIG TO ENGINE FOOM HARNESS 64G W/L TO ENGINE FOOM HARNESS 130 B TO ENGINE FOOM HARNESS 650 W/L TO ENGINE FOOM HARNESS 131 P TO ENGINE FOOM HARNESS 650 W/L TO ENGINE FOOM HARNESS 146 Y/B TO ENGINE FOOM HARNESS 673 0 TO ENGINE FOOM HARNESS 156 G/W TO ENGINE FOOM HARNESS 673 0 TO ENGINE FOOM HARNESS 166 G/W TO ENGINE FOOM HARNESS 673 0 TO ENGINE FOOM HARNESS 166 G/W TO ENGINE FOOM HARNESS 673 0 TO ENGINE FOOM HARNESS 166 G/W TO ENGINE FOOM HARNESS 760 V TO ENGINE FOOM HARNESS 166 G/W TO ENGINE FOOM HARNESS 760 L/W TO ENGINE FOOM HARNESS 166 G/Y TO ENGINE FOOM HARNESS 760 L/W TO ENGINE FOOM HARNESS 205 G/Y TO ENGINE FOOM HARNESS 776 L/W TO ENGINE FOOM HARNESS 206 G/Y	10G	3	TO ENGINE ROOM HARNESS	63G	•	TO ENGINE ROOM HARNESS			
120 W/B TO ENGINE FOOM HARNESS 650 W/R TO ENGINE FOOM HARNESS 130 B/R TO ENGINE FOOM HARNESS 660 B/G TO ENGINE FOOM HARNESS 140 B/R TO ENGINE FOOM HARNESS 660 B/G TO ENGINE FOOM HARNESS 140 G/W TO ENGINE FOOM HARNESS 660 B/G TO ENGINE FOOM HARNESS 140 G/W TO ENGINE FOOM HARNESS 660 C TO ENGINE FOOM HARNESS 141 G/W TO ENGINE FOOM HARNESS 660 Y TO ENGINE FOOM HARNESS 141 G/W TO ENGINE FOOM HARNESS 660 Y TO ENGINE FOOM HARNESS 141 G/W TO ENGINE FOOM HARNESS 660 L TO ENGINE FOOM HARNESS 141 M/Y TO ENGINE FOOM HARNESS 700 L TO ENGINE HOOM HARNESS 141 M/Y TO ENGINE FOOM HARNESS 700 L TO ENGINE HOOM HARNESS 141 M/Y TO ENGINE FOOM HARNESS 700 L TO ENGINE HOOM HARNESS 141 M/Y	11G	R/G	TO ENGINE ROOM HARNESS	64G	W/L	TO ENGINE ROOM HARNESS			
130 BR 10 ENGINE FOOM HARNESS 663 BG 10 ENGINE FOOM HARNESS 140 V/B 10 ENGINE FOOM HARNESS 670 0 10 ENGINE FOOM HARNESS 153 6 10 ENGINE FOOM HARNESS 670 0 10 ENGINE FOOM HARNESS 154 0 10 ENGINE FOOM HARNESS 690 1 10 ENGINE FOOM HARNESS 176 0 10 ENGINE FOOM HARNESS 700 1 10 ENGINE FOOM HARNESS 176 0 10 ENGINE FOOM HARNESS 700 1 10 ENGINE FOOM HARNESS 176 0 10 ENGINE FOOM HARNESS 700 1 10 ENGINE HARNESS 200 0/Y 10 ENGINE FOOM HARNESS 730 1 10 ENGINE HARNESS 201 0/Y 10 ENGINE FOOM HARNESS 736 1 10 ENGINE HARNESS 203 0/Y 10 ENGINE FOOM HARNESS 736 1 10 ENGINE HARNESS 204 0/Y 10 ENGINE FOOM HARNESS 736 1 10 ENGINE HARNESS 204 0/Y 10 ENGINE FOOM HARNESS <td>12G</td> <td>W/B</td> <td>TO ENGINE ROOM HARNESS</td> <td>65G</td> <td>W/R</td> <td>TO ENGINE ROOM HARNESS</td> <td></td> <td></td> <td></td>	12G	W/B	TO ENGINE ROOM HARNESS	65G	W/R	TO ENGINE ROOM HARNESS			
142 VIB TO ENGINE FOOM HARNESS 673 0 TO ENGINE FOOM HARNESS 156 a/W TO ENGINE FOOM HARNESS 96 B TO ENGINE FOOM HARNESS 176 0 TO ENGINE FOOM HARNESS 96 Y TO ENGINE FOOM HARNESS 176 0 TO ENGINE FOOM HARNESS 703 L TO ENGINE FOOM HARNESS 176 0 TO ENGINE FOOM HARNESS 703 L TO ENGINE FOOM HARNESS 196 a/Y TO ENGINE FOOM HARNESS 703 L TO ENGINE FOOM HARNESS 206 a/Y TO ENGINE FOOM HARNESS 703 L TO ENGINE FOOM HARNESS 206 a/Y TO ENGINE FOOM HARNESS 703 L TO ENGINE FOOM HARNESS 206 a/Y TO ENGINE FOOM HARNESS 703 L TO ENGINE HARNESS 206 a/Y TO ENGINE FOOM HARNESS 703 L TO ENGINE HARNESS 206 a/Y TO ENGINE FOOM HARNESS 703 HARNESS 704 206 a/Y TO ENGINE FOOM HARNES	13G	BR	TO ENGINE ROOM HARNESS	66G	BG	TO ENGINE ROOM HARNESS			
150 G/W TO ENGINE FOOM HARNESS 660 B TO ENGINE FOOM HARNESS 176 d TO ENGINE FOOM HARNESS 700 L TO ENGINE FOOM HARNESS 176 d TO ENGINE FOOM HARNESS 700 L TO ENGINE FOOM HARNESS 186 d/Y TO ENGINE FOOM HARNESS 710 D. TO ENGINE FOOM HARNESS 196 d/Y TO ENGINE FOOM HARNESS 710 D. TO ENGINE FOOM HARNESS 205 d/Y TO ENGINE FOOM HARNESS 710 D. TO ENGINE FOOM HARNESS 206 d/Y TO ENGINE FOOM HARNESS 720 L/W TO ENGINE FOOM HARNESS 205 d/Y TO ENGINE FOOM HARNESS 730 M. TO ENGINE FOOM HARNESS 205 d/Y TO ENGINE FOOM HARNESS 736 M. TO ENGINE FOOM HARNESS 205 d/Y TO ENGINE FOOM HARNESS 736 M. TO ENGINE HARNESS 204 M/T TO ENGINE FOOM HARNESS 736 M. TO ENGINE HARNESS 205 M/T TO ENGINE FOOM HARNESS 736 M. TO ENGINE HARNESS	14G	Y/B	TO ENGINE ROOM HARNESS	67G	0	TO ENGINE ROOM HARNESS			
163 G TO ENGINE FOOM HARNESS 663 Y TO ENGINE FOOM HARNESS 173 0 0 TO ENGINE FOOM HARNESS 703 L TO ENGINE FOOM HARNESS 183 7/Y 10 TO ENGINE FOOM HARNESS 703 L TO ENGINE FOOM HARNESS 130 Y/Y TO ENGINE FOOM HARNESS 733 U/W TO ENGINE FOOM HARNESS 203 G/Y TO ENGINE FOOM HARNESS 733 U/W TO ENGINE FOOM HARNESS 203 G/Y TO ENGINE FOOM HARNESS 733 HIELD TO ENGINE FOOM HARNESS 204 G/R TO ENGINE FOOM HARNESS 734 W TO ENGINE FOOM HARNESS 203 Y/R TO ENGINE FOOM HARNESS 736 R TO ENGINE FOOM HARNESS 204 Y/R TO ENGINE FOOM HARNESS 736 R TO ENGINE FOOM HARNESS 203 Y/R TO ENGINE FOOM HARNESS 736 R TO ENGINE FOOM HARNESS 204 Y/R TO ENGINE FOOM HARNESS 736 R TO ENGINE FOOM HARNESS	15G	G/W	TO ENGINE ROOM HARNESS	68G	8	TO ENGINE ROOM HARNESS			
176 0 TO ENGINE FOOM HARNESS 706 L TO ENGINE FOOM HARNESS 186 G/Y TO ENGINE FOOM HARNESS 713 L/W TO ENGINE FOOM HARNESS 206 Y/Y TO ENGINE FOOM HARNESS 726 L/W TO ENGINE FOOM HARNESS 206 W TO ENGINE FOOM HARNESS 736 H/W TO ENGINE FOOM HARNESS 210 B/Y TO ENGINE FOOM HARNESS 736 SHELD TO ENGINE FOOM HARNESS 213 B/Y TO ENGINE FOOM HARNESS 736 W TO ENGINE FOOM HARNESS 223 G/R TO ENGINE FOOM HARNESS 736 R TO ENGINE FOOM HARNESS 236 V/R TO ENGINE FOOM HARNESS 756 R TO ENGINE FOOM HARNESS 236 V/R TO ENGINE FOOM HARNESS 756 R TO ENGINE FOOM HARNESS 236 V/R TO ENGINE FOOM HARNESS 756 R TO ENGINE FOOM HARNESS 236 P/R TO ENGINE FOOM HARNESS 756 R TO ENGINE FOOM HARNESS 246 P/R </td <td>16G</td> <td>U</td> <td>TO ENGINE ROOM HARNESS</td> <td>69G</td> <td>></td> <td>TO ENGINE ROOM HARNESS</td> <td></td> <td></td> <td></td>	16G	U	TO ENGINE ROOM HARNESS	69G	>	TO ENGINE ROOM HARNESS			
16 G/V TO ENGINE FOOM HARNESS TIG R/W TO ENGINE FOOM HARNESS 19G V/V TO ENGINE FOOM HARNESS 2/4 U/W TO ENGINE FOOM HARNESS 20G G/Y TO ENGINE FOOM HARNESS 7/3G U/W TO ENGINE FOOM HARNESS 21G B/Y TO ENGINE FOOM HARNESS 7/3G W TO ENGINE FOOM HARNESS 22G G/R TO ENGINE FOOM HARNESS 7/3G R TO ENGINE FOOM HARNESS 23G V/R TO ENGINE FOOM HARNESS 7/3G R TO ENGINE FOOM HARNESS 24G G/B TO ENGINE FOOM HARNESS 7/3G R TO ENGINE FOOM HARNESS 24G G/B TO ENGINE FOOM HARNESS 7/3G R/3 TO ENGINE FOOM HARNESS 24G G/B TO ENGINE FOOM HARNESS 7/3G R/3 TO ENGINE HARNESS 24G P/W TO ENGINE FOOM HARNESS 7/3G R/3 TO ENGINE HARNESS 24G P/W TO ENGINE FOOM HARNESS 7/3G R/3 TO ENGINE HARNESS 24G P/W<	17G	0	TO ENGINE ROOM HARNESS	70G	-	TO ENGINE ROOM HARNESS			
190 V/V TO ENGINE FOOM HARNESS 726 L/W TO ENGINE FOOM HARNESS 203 G/Y TO ENGINE FOOM HARNESS 733 SHIELD TO ENGINE FOOM HARNESS 210 G/R TO ENGINE FOOM HARNESS 743 SHIELD TO ENGINE FOOM HARNESS 226 G/R TO ENGINE FOOM HARNESS 756 R TO ENGINE FOOM HARNESS 236 Y/R TO ENGINE FOOM HARNESS 756 R/O TO ENGINE FOOM HARNESS 246 G/R TO ENGINE FOOM HARNESS 756 R/O TO ENGINE FOOM HARNESS 246 G/B TO ENGINE FOOM HARNESS 756 R/O TO ENGINE FOOM HARNESS 246 G/B TO ENGINE FOOM HARNESS 776 B/G TO ENGINE FOOM HARNESS 246 P TO ENGINE FOOM HARNESS 776 B/G TO ENGINE HARESS 246 P TO ENGINE FOOM HARNESS 776 B/G TO ENGINE HARESS 246 P TO ENGINE FOOM HARESS 776 B/G TO ENGINE HARESS	18G	GV	TO ENGINE ROOM HARNESS	71G	RW	TO ENGINE ROOM HARNESS			
206 G/V TO ENGINE FOOM HARNESS 73G SHELD TO ENGINE FOOM HARNESS 216 B/Y TO ENGINE FOOM HARNESS 74G W TO ENGINE FOOM HARNESS 226 YR TO ENGINE FOOM HARNESS 75G R TO ENGINE FOOM HARNESS 236 YR TO ENGINE FOOM HARNESS 75G R TO ENGINE FOOM HARNESS 236 YR TO ENGINE FOOM HARNESS 75G RG TO ENGINE FOOM HARNESS 24G G/B TO ENGINE FOOM HARNESS 77G BG TO ENGINE FOOM HARNESS 24G P TO ENGINE FOOM HARNESS 77G BG TO ENGINE FOOM HARNESS 24G P TO ENGINE FOOM HARNESS 77G BG TO ENGINE FOOM HARNESS 24G P TO ENGINE FOOM HARNESS 77G P TO ENGINE FOOM HARNESS	19G	Νλ	TO ENGINE ROOM HARNESS	72G	۲	TO ENGINE ROOM HARNESS			
21G Br/ TO ENGINE FOOM HARNESS 74G W TO ENGINE FOOM HARNESS 22G G/R TO ENGINE FOOM HARNESS 75G R TO ENGINE FOOM HARNESS 23G Y/R TO ENGINE FOOM HARNESS 75G R TO ENGINE FOOM HARNESS 24G G/B TO ENGINE FOOM HARNESS 75G R TO ENGINE FOOM HARNESS 24G G/B TO ENGINE FOOM HARNESS 77G B/G TO ENGINE FOOM HARNESS 26G P/W TO ENGINE FOOM HARNESS 73G P TO ENGINE FOOM HARNESS 26D P/W TO ENGINE FOOM HARNESS 73G P TO ENGINE FOOM HARNESS	20G	G√	TO ENGINE ROOM HARNESS	73G	SHIELD	TO ENGINE ROOM HARNESS			
23G G/R TO ENGINE FOOM HARNESS 75G R TO ENGINE FOOM HARNESS 23G Y/R TO ENGINE FOOM HARNESS 76G R/G TO ENGINE FOOM HARNESS 24G G/B TO ENGINE FOOM HARNESS 76G R/G TO ENGINE FOOM HARNESS 24G G/B TO ENGINE FOOM HARNESS 77G BG TO ENGINE FOOM HARNESS 26G P/W TO ENGINE FOOM HARNESS 77G PG TO ENGINE FOOM HARNESS 26D P/W TO ENGINE FOOM HARNESS 77G P TO ENGINE FOOM HARNESS	21G	ΒΛ	TO ENGINE ROOM HARNESS	74G	×	TO ENGINE ROOM HARNESS			
23G V/R TO ENGINE FOOM HARNESS 76G R/G TO ENGINE FOOM HARNESS 24G G/B TO ENGINE FOOM HARNESS 77G BG TO ENGINE FOOM HARNESS 24G G/B TO ENGINE FOOM HARNESS 77G BG TO ENGINE HARNESS 24G R/W TO ENGINE FOOM HARNESS 77G BG TO ENGINE HARNESS 24C P TO ENGINE FOOM HARNESS 73G P TO ENGINE HARNESS	22G	G/R	TO ENGINE ROOM HARNESS	75G	ж	TO ENGINE ROOM HARNESS			
24G GrB TO ENGINE FROM HARNESS 77G Bid TO ENGINE FROM HARNESS 25G R/W TO ENGINE FROM HARNESS 78G P TO ENGINE FROM HARNESS 265 R/W TO ENGINE FROM HARNESS 78G P TO ENGINE FROM HARNESS 265 R/W TO ENGINE FROM HARNESS 78G P TO ENGINE FROM HARNESS	23G	Y/R	TO ENGINE ROOM HARNESS	76G	R/G	TO ENGINE ROOM HARNESS			
25G R.W TO ENGINE FOOM HARNESS 78G P TO ENGINE ROOM HARNESS Acr D TO ENGINE COMM HARNESS 79G - TO ENGINE FOOM HARNESS	24G	G/B	TO ENGINE ROOM HARNESS	77G	BG	TO ENGINE ROOM HARNESS			
ACC D TO ENCINE DOOM HARNESS 79G - TO ENGINE ROOM HARNESS	25G	RW	TO ENGINE ROOM HARNESS	78G	٩	TO ENGINE ROOM HARNESS			
	26G	œ	TO ENGINE ROOM HARNESS	79G	1	TO ENGINE ROOM HARNESS			

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TO BODY NO. 2 HARNESS TO BODY NO. 2 HARNESS

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Signal Name	TO BODY NO. 2 HARNESS - (WITH CLIMATE CONTROLLED SEAT)	TO BODY NO. 2 HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)	TO BODY NO. 2 HARNESS																			
Color of Wire	M	ГG	>	SB	1	BG	ГG	M	8	L/B	w	В	BR	g	R/G	0	O/L	L	٢	B/W	BR/Y	BG
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80A	>	TO BODY NO. 2 HARNESS
81A	æ	TO BODY NO. 2 HARNESS
82A	SHIELD	TO BODY NO. 2 HARNESS
83A	æ	TO BODY NO. 2 HARNESS
84A	0	TO BODY NO. 2 HARNESS
85A	SHIELD	TO BODY NO. 2 HARNESS
86A	M	TO BODY NO. 2 HARNESS
87A	в	TO BODY NO. 2 HARNESS
88A	W	TO BODY NO. 2 HARNESS
89A	SHIELD	TO BODY NO. 2 HARNESS
90A	9	TO BODY NO. 2 HARNESS
91A	M/L	TO BODY NO. 2 HARNESS
92A	BR	TO BODY NO. 2 HARNESS
93A	Γ	TO BODY NO. 2 HARNESS
94A	R/L	TO BODY NO. 2 HARNESS
95A	BR	TO BODY NO. 2 HARNESS
96A	ш	TO BODY NO. 2 HARNESS
97A	ГG	TO BODY NO. 2 HARNESS
98A	B/V	TO BODY NO. 2 HARNESS
99A	OL	TO BODY NO. 2 HARNESS
100A	BR/W	TO BODY NO. 2 HARNESS

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DISPLAY AUDIO
ARNESS Connector No. M75	Connector Name WIRE TO WIF	ABNESS Connector Type NS10MW-CS	ARNESS Connector Color WHITE	ARNESS	ARNESS	ARNESS	ARNESS	ARNESS 2 6 7	ARNESS	ARNESS	ARNESS	ARNESS IETTIIIIal COIOT OI Sign	ARNESS ARNESS	ARNESS 1 B/W 10 FRONT D	ARNESS Z B IOFHONLD	ARNESS AFINESS	ARNESS 4 V 10 FRONT D	ARNESS 3 W/B IOFHONID					10 - 10 - 10 - 10 - 10 - 10 - HONI D				3R 2R 1R	R 10R 9R 8R			ome		MP 2		H1	RY	ORY				RY		RY	ORY	RY	RY	ORY			
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81J St	020	84.1	85J	698	87J	88.1 SF	89.1	P06	91J	92J	93,1	94J	95J	96J	P16	98.	r66	1001		Connector No.	Connoctor Non		Connector Type	Connector Colo	E		H.O.	16			Terminal Co	No.	æ e	47 Q	£ 4	8	68	7R	BR	9R	10R	11R	12R	13R	14R	15R	16R			
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787 787	108	31 ¹	32J	33J	34J	35J	36.1	37J	38.1	39J	401	41J	42J	43J	44J	45J	46J	47J	48J	49J	50J	51J	52J	53J	54J	55J	57.1	58J	59J	60J	613	63,1	64J	65J	66J	67J	68J	69	roz	1.02	1.67	74.1	251	26.1	F22	78.1	162	801		
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Revision: March 2016

2016 Titan NAM

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		nector	No.	M80	Connector N	40.	/81	Connector No. M104	Connector No. M111
		lector	Name	BCM (BODY CONTROL MODULE)	Connector N	Vame E	3CM (BODY CONTROL 40DULE)	Connector Name AUX IN JACK Connector Type A06FW	Connector Name FRONT TWEETER RH Connector Type TK02FBR
		ector	Type 1	TH24FB-NH	Connector T	ype F	EA09FW-FHA6-SA	Connector Color WHITE	Connector Color BROWN
		ector	Color E	BLACK	Connector C	Color V	VHITE		
					F				
		Ś	116 115 128 127	5 114 113 112 111 110 109 108 107 106 105 7 125 122 123 122 121 120 119 118 117	H.S.	لتخل	47 136 135 134 133 132 131 130 129 43 142 141 140 139 138	1 2 3 4 5 6	
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		ninal	Color of Wire	Signal Name	Terminal	Color of Wire	Signal Name	No. Wire Signal Name	No. Wire Signal Name
		05	G√	FR FLASHER	129	R/G	BATTERY SAVER OUT		2 L/B FRONT RH SPEAKER -
		90	1	1	130	FG	SUPER LOCK/DOOR UNLOCK AS	ENIERIANNENI SYSTEM)	
		07	> 9	LOW SIDE START SW LED	131	× >	BAT BCM FUSE	2 G AUDIO LIN-WITH HEAT SEAL ENTERTAINMENT SYSTEM)	
		8 6	5 '		133	- 8	DOOR UNLOCK AS/RR/RL	3 GR AUDIO GND	
11 P ACLED P ACLED P ACLED P ACCURDANARIA		10		-	134	8	GND2		
1		11	4	ACC LED	135	0	DOOR LOCK DR/AS/FL	entertainment system)	
13 1 ADDRIAY OUT 13 1 000 RATT 24 1 000 RATT 24 000 RATT 24 13 10 10 10 10 10 10 10 14 10 10 10 10 10 10 10 10 15 10		12	ī	-	136	-	ROOM LAMP CONT	5 V AUDIO R IN - WITH REAR SEAT	
		13	-	ACC RELAY OUT	137	>	DOOR UNLOCK DR/AS/FL		
Image:		14	>	AS DOOR ANT A	138	>	BAT REAR DOOR		
		15	BB ::	AS DOOR ANT B	139	3	BAT-POWER F/L		
		2 2	s Ç		140	2		Connector No. M109	
Image: bit is a line bit is line bit is a line bit is a line bit is a line bit is a		_	0		141	>		Connector Name FRONT TWEETER LH	
mononant is in procession i		6	"	RF NIMOCO	143	- @	GND1	Connector Type TK02FBR	
P P PDOORANT B P P PDOORANT A P P POORANT A P P POORANT B P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P		6						Connector Color BROWN	
2 P Denocerant a Consector Name Con			σ	DR DOOR ANT B	Connector N		488		
3 W DOOMANT 1A Connector must in a connector must in a connector Type		21	٩	DR DOOR ANT A	Connector N	amer	CCESSORV REL AV-2		
2 0 00004MT 1B 2 9 00004MT 1B 2 9 00004MT 2B 2 1 00004MT 2B 2 00004MT 2B 00004MT 2B 2 0 00004MT 2B 2 0 00004MT 2B 2 0 00004MT 2B 3 0 00004MT 2B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td< td=""><td></td><td>8</td><td>×</td><td>ROOM ANT 1 A</td><td>Connector T</td><td>- une</td><td>ASOPEI -M2-I C</td><td>H.S.</td><td></td></td<>		8	×	ROOM ANT 1 A	Connector T	- une	ASOPEI -M2-I C	H.S.	
8 1 0000 and target to the intervention of the interventintex of the interventex of the interventex of th	Bit Immodel Immodel	4	J	ROOM ANT 1 B	Connoctor	Jolor -		2 1	
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27 BG MMOG Start BULTON ANT 2 28 B ROOMANT 2 7 1 Vine 7 Vine Signal Name 8 Acc Signal Name 9 R Acc Signal Name	27 BG MNOU START BULTON ANT B 38 B NOUNATZ B Temp Temp 0 0 1 0	56	۹.	IMMO START BUTTON ANT B					
28 B FOOM ANT 2B Image: Second and a s	B DOUMAT2B Terminal Color of Wire Signal Name 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1 1 1 1 3 1 1 0 1 2 1 1 1 1 3 1 1 0 1 3 1 1 0 0 3 1 1 0 0 3 1 1 0 0 3 1 1 0 0 3 1 1 0 0 3 1 1 0 0 3 1 0 0 0	51	BG	IMMO START BUTTON ANT A					
Terminal Color of Signal Name No. Wire Signal Name 1 B GND 2 L Accretary out 5 W BATTERY	Terminal Color of Signal Name No. Wire Signal Name 1 B calo 2 L Accretary out 3 R Accretary 6 W BATTERY	58	œ	ROOM ANT 2 B	H.S.			Terminal Color of Wire Signal Name No. Wire FRONT LH SPEAKER + 2 UR FRONT LH SPEAKER -	
1 B GND 2 L ACCRELAYOUT 3 R ACCSW 5 W BATTERY	1 B GND 2 L ACCRELAYOUT 3 R ACCSW 5 W BATTERY				Terminal No.	Color of Wire	Signal Name		
2 L ACC RELAY OUT 3 R ACC SW 5 W BATTERY	2 L ACC RELAY OUT 3 R ACC SW 5 W BATTERY				-		GND		
3 R ACC SW 5 W BATTERY	3 R ACC SW 5 W BATTERY				2	-	ACC RELAY OUT		
5 W BATTERY	6 W BATTERY				e	æ	ACC SW		
					5	N	BATTERY		

DISPLAY AUDIO

DISPLAY AUDIO SYSTEM CONNECTORS

Revision: March 2016

2016 Titan NAM

		Connector Name COMBINATION METER	39	1	I	12	L/B	RR SP RH-	48	1	I
		connector Name COMBINATION METER	40	GR	ILL CONT OUT	13	O/L	RR SP RH+	49	1	I
						14	ГЦ	R SP RH-	202	,	-
		(WITH TYPE B)									
		onnector Type TH40FW-NH	Connector N	<u>خ</u> ہ	169	2		METER)			
		opnector Color WHITE	Connector N	ame A.	UDIO UNIT	16	æ	STRG SW B (WITH TYPE B	77		
			Connector Tv	T adv	HOBFW-NH			METER)			
			Connector		ЛТЕ	17	-	-	Connector	No.	M180
				500		18	g	SPEED SIGNAL	Connector	Name /	AUDIO UNIT
		HS.				19	×	BAT	Connector	- Turo	ISCADO MA M
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		21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	39 40 H.S.		ľ				Connector	Color	BLACK
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12 B STRESSWOM Connector Nom M171 22 2 2 2 2 2 1 1 1 0 0008000000000000000000000000000000000	12Bantunte source13B $\frac{1111}{10}$ Connector NueM17114B $\frac{110}{100}$ W $\frac{1111}{100}$ M11815V $\frac{1111}{100}$ M118 $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ 16P $\frac{11111}{100}$ Connector Nue $\frac{1111}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ 16P $\frac{111111}{100}$ Connector Nue $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ 1718P $\frac{111111}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ 19P $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ $\frac{112}{100}$ 22P $\frac{112}{100}$	HH CHG		-		21	1	I	99	SHIELU	SHIELU
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15 W OUTSIDE TEMPRETISMON 16 P TUPRESET SW 17 - - 18 P TUPRESET SW 19 - 0.01.LEFELGAND 20 P TUPRESET SW 21 - - 22 P STRG SW 23 P STRG SW 24 W WMEEE SW 25 - - - 26 - BAWK OLLSW SGMAR HUMT/YFEA MEER SCMAR HUMT/YFEA MEER 23 R W MMEEE SW SS SCMAR HUMT/YFEA MEER SCMAR HUMT/YFEA MEER 23 R W MMEER SW SS SS<	15 W OUTSUE TEMP SERSOR Connector Uype NI NOW VOZ 17 -	14 R ACC	Freedomoo			24	1	1	Connector	Name /	
10 AIR BAG 17 -	16 0 Alf BAG 17 -	15 W OUTSIDE TEMP SENSOR	CONTRECTOR	ne v		25	1	1			
17 -	17 -	16 O AIR BAG	Connector C	olor M	HIE	26	'	1		Drha	
16 P TrIP RESET SW 2 P 01.LEVEL GND 2 P 01.LEVEL GND 2 P 01.LEVEL GND 2 P STRG SWA 2 P P 2<	16 TIP PRESET SW. 29 1 0011 LEVEL GND 29 1 0011 [12] (1] (1] (1] (1] (1] (1] (1] (1] (1] (1	17	Æ			27		-	Connector	Color	GRAY
10 - 00LLERELAND 20 - 00LLERELAND 20 - 0.00LLERELAND 20 - <	10 1 00LLEVEL GND 20 R 001LEVEL GND 21 - 0 21 - 001LEVEL GND 22 P STRG SW L 23 R MCANUL (MTH TYPE A METER) 24 V Signal Mane 25 C MAHSERSW 26 G MCANUL (MTH TYPE A METER) 28 L MCANUL (MTH TYPE A METER) 29 L MCANUL (MTH TYPE A METER) 26 G MCANUL (MTH TYPE A METER) 28 L MCANUL (MTH TYPE A METER) 29 L MCANUL (MTH TYPE A METER) 20 MCANUL (MTH TYPE A METER) MCANUL (MTH TYPE A METER) 29 L MCANUL (MTH TYPE A METER) 20 L MCANUL (MTH TYPE A METER) 21 L MCANUL (MTH TYPE A METER) 22 L MCANUL (MTH TYPE A METER) 23 L MCANUL (MTH TYPE A METER) 24 L MCANUL (MTH TYPE A METER)	18 P TRIP RESET SW				28	ß	MCAN2 H (WITH TYPE A METER)	fe		
20 R OUTSDE TEMP GND 21 -	20 R OUTSIDE TEMP GND 21 -	19 – OIL LEVEL GND	SH	l		29	6	MCAN2 I (WITH TYPE A METER)	I I]_
21 1	21 -	20 R OUTSIDE TEMP GND			2 3 4 5 6 7 8 9	08			SH		22
2 P STRG SWA 23 R STRG SWB 24 W WIMEREN 26 - BRAKE OL SW 26 - BRAKE OL SW 26 - BRAKE OL SW 27 - - 28 - - 29 - - 27 - - 28 - - 29 - - 29 - - 20 - - 21 - - 29 - - 20 - - 21 - - 21 - - 21 - - 22 - - 23 W - 24 - - 25 - - 26 - - 27 - -	2 P STRG.SWA 2 R STRG.SWA 2 R STRG.SWB 2 N WIREDT 24 W WIREDT 26 P BRAKE OLSW 27 V BRAKE OLSW 28 P BRAKE OLSW 27 V BRAKE OLSW 28 P MIRE 29 V/V FRSPLH+ 29 V/V FRSPLH+ 29 V/V MIC+ 20 V/V MIC+ 21 L/M FRSPLH+ 29 V/V MIC+ 20 V/V MIC+ 21 L/M MIRCH+ 22 BR/V MIRCH+ 23 BR/V MIRCH+ 24 C C 25 L MIC 26 P MIC 27 L L 28 R <td< td=""><td>21</td><td></td><td>19 10</td><td>11 12 13 14 15 16 17 18 20</td><td>6</td><td>BS</td><td>MCAN1 H (WITH TYPE A METER)</td><td></td><td></td><td>][</td></td<>	21		19 10	11 12 13 14 15 16 17 18 20	6	BS	MCAN1 H (WITH TYPE A METER)][
24 8 StRuswa 24 9 W WMHSERSW 24 9 W WMHSERSW 26 1 BMAGERSW Femilyal Color of Wire Signal Name 27 2 M Wire Signal Name 24 2 2 27 2 M Wire Signal Name 2 2 2 2 28 0.08 MBELSW 7 1 2	28 R straske 24 v 24 v 25 - 26 - 27 - 27 - 28 - 27 - 27 - 28 - 27 - 28 - 29 - 21 - 21 - 22 - 29 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 20 - 21 - 22 - 28 - 29 - 20 - 20 - <t< td=""><td>22 P STRG SW A</td><td></td><td></td><td></td><td>32</td><td>6</td><td>MCAN1 L (WITH TYPE A METER)</td><td></td><td></td><td>89</td></t<>	22 P STRG SW A				32	6	MCAN1 L (WITH TYPE A METER)			89
24 W WHSERSW Terminal Color of Wire Signal Name	24 W WMHSER SW Terminal No. Color of Wire Signal Name 5 - <td>23 R STRG SW B</td> <td></td> <td></td> <td></td> <td>33</td> <td>1</td> <td>-</td> <td></td> <td></td> <td>RD</td>	23 R STRG SW B				33	1	-			RD
25 - BRAKE OLL SW Non Under Signal Name Signal Nam Signal Name <td>25 - BRAKE OLLSW Non. OUD OU OU Non. Signal Name Signal Name</td> <td>24 W WAHSER SW</td> <td>Teminel</td> <td>Jo Lou of</td> <td></td> <td>34</td> <td>,</td> <td></td> <td></td> <td></td> <td>20</td>	25 - BRAKE OLLSW Non. OUD OU OU Non. Signal Name	24 W WAHSER SW	Teminel	Jo Lou of		34	,				20
28 6 PKBSW	28 6 PKBSW	25 – BRAKE OIL SW		Wire	Signal Name	35	1	-			71
27 -	27 -	26 G PKB SW	-	2		36	1	-			
28 0/B DRBLTSW 2 0 Model	28 0/B DRBLTSW 2 0 0 MOL	27		I AM		37	M	MIC +	Terminal	Color of	Signal Name
20 1	20 1 -	28 O/B DR BELT SW	4 6			38	a	MIC V4	No.	Wire	0
30 Y/V FUEL SENSOR GND 4 35 BAY FUEL SENSOR GND 6 BA 66 B 70 90 <t< td=""><td>30 Y/V FUEL SENSOR GND 4 35 M-M-M-LH+ 40 0 0 0 0 0 66 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 64 91 7 63 81 7 63 81 7 63 81 91</td><td>29</td><td>2</td><td>5 8</td><td></td><td>8 8</td><td>SHIFLD</td><td>UND GND</td><td>67</td><td>1</td><td>'</td></t<>	30 Y/V FUEL SENSOR GND 4 35 M-M-M-LH+ 40 0 0 0 0 0 66 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 64 91 7 63 81 7 63 81 7 63 81 91	29	2	5 8		8 8	SHIFLD	UND GND	67	1	'
31 BR/V FUELSENSOR 5 B/V HAFULH- MASURT UP MASULL- METRAN MASULL- METRAN 66 9 HILLD 66 9 HILLD 66 9 100 2 500 2 100 2 2	31 BR/v FUELSENSOR 5 B/v HASPLH- 40 2 60 81 32 BR ATSHIFT UP 6 P STRGS WITHTYPE B 41 - - 60 81 32 V/w AT SHIFT DOWN 7 R ARGH 42 - - 70 70 34 L CAN-H 8 GR ILL(-) 44 - - - 71 17 35 P CAN-L 9 L ILL(-) 44 - - - - 71 17	30 Y/V FUEL SENSOR GND	4	8					68	в	ANT MAIN
32 BR AT SHIF UP 6 P STRG SWA RWIN HYPE B 41 - - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 71 -	32 BR AT SHIFT UP 6 P STRG SWA MUTH TYPEB 41 - - 70 70 33 V/W AT SHIFT DOWN 7 R AGC 43 - - 70 71 34 L CAN-H B GR ILL(+) 43 - - 71 71 35 P CAN-L 9 L ILL(+) 44 - - - 71 71 71	31 BR/Y FUEL SENSOR	20	BV	RR SP LH-	-f-		I	69	SHIELD	MAIN GND
33 VW ATSHIFTDOWN 7 R Accord 42 - - - 71 - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 1 - 17 - 1 - 17 - 1 - 17 - 1 - 17 - 1 - 17 - 1 <th1< th=""> <th1< th=""> <th1< th=""> <</th1<></th1<></th1<>	33 V/W Affshirtbown 7 R montry 42 2 - - 71 11 34 L Con-H 8 GR ILL(+) 44 - - - 71 11 35 P Con-L 9 L ILL(+) 45 - - - 71 11	32 BR AT SHIFT UP	9	٩.	STRG SW A (WITH TYPE B METED)	4	'	-	20	,	I
34 L CANH 8 GR MO 43 -<	34 L CAN-H 8 N A A 43 2 - </td <td>33 V/W AT SHIFT DOWN</td> <td>-</td> <td>•</td> <td>ACC</td> <td>42</td> <td>'</td> <td>-</td> <td>7</td> <td></td> <td>T</td>	33 V/W AT SHIFT DOWN	-	•	ACC	42	'	-	7		T
72 P CMM11 9 UN LLF1 44 - <th< td=""><td>or L or uL d4 - - - 35 P CaNL 9 L ILL(+) 45 - -</td><td>34 - CAN-H</td><td>- 0</td><td>- 5</td><td>200</td><td>43</td><td>'</td><td>1</td><td></td><td></td><td></td></th<>	or L or uL d4 - - - 35 P CaNL 9 L ILL(+) 45 - -	34 - CAN-H	- 0	- 5	200	43	'	1			
30 V L LL(1+) 45 - - 36 W LLUNSW 10 - - - - 37 R ILLOWISW 11 WR FIRSH-1 - -	00 1 45 - - 00 11 11(+) 45 - -	26 D CMI	•	۶.	ILE (-) 	44	'	1			
30 W LLUF-3W 10 - - 46 - - 37 R ILLUF-3W 11 WR FES PHA - </td <td></td> <td></td> <td></td> <td>_</td> <td>(+) ILL (+)</td> <td>45</td> <td>'</td> <td>I</td> <td></td> <td></td> <td></td>				_	(+) ILL (+)	45	'	I			
3/ H ILL DOWN SW 11 W/R FRSP HH+	20 W ILLIAN 10 46	30 W ILL UP 3W	01	. !	-	46	1	-			
	3/ H ILLUWN 11 W/B FRSP RH+ 47 - -		F	W/B	FR SP RH+	47	'	1			
38 G BP/R OUTPUT	38 G BP/ROUTPUT	38 G BP/R OUTPUT									

< WIRING DIAGRAM >

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TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS		R5	MICEOPHONE		I KU4FW	WHITE				1 2 3 4				Signal Name	4 UN M			1	MICV+						
_	R/G	J	Γ	_	GR	æ	W/B	L/B	1	۹.	N/L	W/B	1	1	1	1	1	ŀ	1	Y/R	G/R	G/W	LG/B	Nλ		No.	Name I		Iype	Color							Color of	Wire	A	surgi D	SUIELLU		æ						
8	6	10	Ħ	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		Connector	Connector		Connector	Connector	F	л с Н	5				Terminal	ND	-	- c	N 0	8	4						
SHIELD	SHIELD	GND	GND	GND	GND		100				K08FGY	iRAY				21 20 18 17 16 15					Signal Name	ASCD SW	AUDIO STRG SW REMOTE A	AUDIO STRG SW REMOTE B	ASCD GND	AUDIO STRG SW GND	HORN	- 11	ILL +		E	VIRE TO WIRE	H32MW-NH	VHITE				5 8 7 8 9 10 11 12 13 14 15 16	21 22 23 24 25 26 27 28 29 30 31 32				Sicond Namo	Signal Name	TO MAIN HARNESS				
SHIELD	SHIELD	-	8	8	в			≥ (2	Type	Color				5	77			Color of	Wire		×		8	BB	σ	4	~		No.	Name M	Type T	Color				1 2 3 4	17 18 19 20				Color of	Wire	SHIELD	н	M	Y/R	G/W
19	20	21	22	23	24		Connector		Connector		Connector	Connector	f		H.S.					Terminal	No.	15	16	17	18	19	20	21	22		Connector	Connector	Connector	Connector		AHAN .	SH						Terminal	No.	-	2	e	4	5
Connortor No M188		Connector Name WIRE IO WIRE	Connector Type FAKRA CODING C	Connector Color PINK							\rangle		Terminal Color of Signal Name		1 B IO HOUF ANI ENNA HARNESS			Connector No. M192	Connector Name JOINT CONNECTOR-M02	Connector Type NH24FW-J	Connector Color WHITE				R.O.	13 11 10 0		- 16 15 14 13	20 19 18 17	24 23 22 21		Terminal Color of	No. Wire Signal Name	1 B GND	2 B GND	3 B GND	4 O GND	5 B GND	6 B GND	7 B GND	8 B GND	9 B GND	10 B GND	11 B GND	12 B GND	13 Y/R GND	14 B GND	15 B GND	16 B GND
NO MIRA	NU. MI 04	Name AUDIO UNI I	Type FAKRA CODING C	Color PINK		ſ		(e(Color of Signal Name	200 LUC	SALANI			No. M185	Name USB INTERFACE	Type USCAR30-MA-M	Color BIACK					6 5 4 3 2 1			-	Color of Signal Name	Wire c		ط ع	-D+	R GND	SHIELD SHIELD													
Connector	Collifector	Connector	Connector	Connector	ſ	4444h	S F						Terminal		72	ę		Connector	Connector	Connector	Connector		L C C C C C C C C C C C C C C C C C C C		0.E					Terminal	- NO.	5	3	4	ŝ	9													

DISPLAY AUDIO SYSTEM CONNECTORS

< WIRING DIAGRAM >

AANIA4991GB

Revision: March 2016

TO MAIN HARNESS TO MAIN HARNESS

G/R B

SHIELD

SHIELD

< WIRING DIAGRAM >

Connector No.	R108
Connector Name	WIRE TO WIRE
Connector Type	FAKRA CODING C
Connector Color	PINK
다. H.S.	FO

Signal Name	TO MAIN HARNESS	TO MAIN HARNESS	
Color of Wire	æ	SHIELD	
Terminal No.	-	2	

R109	SATELLITE ANTENNA	GT16C-1PP-HU (B)	GREEN	
Connector No.	Connector Name	Connector Type	Connector Color	ात्मन्। H.S.

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BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000013019755

OVERALL SEQUENCE



DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer. Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 3.

3. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >	[DISPLAY AUDIO]
s malfunctioning part detected?	
YES >> GO TO 4.	
NU >> GUTUZ.	
 Repair or replace the malfunctioning part. Reconnect parts or connectors disconnected during Diagnostic Procedure 	
>> GO TO 5.	
D.FINAL CHECK	
Refer to confirmed symptom in step 2, and make sure that the symptom is not detect	ed.
Was the repair confirmed?	
YES >> Inspection End.	
NO >> GO TO 2.	

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT REGISTRATION (AUDIO UNIT)

REGISTRATION (AUDIO UNIT) : Description

AFTER REPLACEMENT (BLUETOOTH REGISTRATION)

If the audio unit is replaced with a new audio unit, the new audio unit must be registered using the Bluetooth D/ C(serial #).

CAUTION:

If the new audio unit Bluetooth D/C(serial #) is not registered, the "APPS" mode will not function.

AFTER REPLACEMENT (SATELLITE RADIO REGISTRATION)

If the audio unit is replaced with a new audio unit and the customer has an active subscription for Satellite Radio, the new audio unit must be registered with the updated subscription information.

REGISTRATION (AUDIO UNIT) : Work Procedure (Bluetooth Registration) INFOLD:00000013019757

1.RECORD BLUETOOTH D/C(SERIAL #) FOR REPLACEMENT AUDIO UNIT

- 1. Turn ignition switch ON.
- 2. Turn audio unit OFF.
- 3. Access the diagnostic menu as follows:
- Press and hold preset buttons 2 and 3.



- While holding preset buttons 2 and 3, press preset button 5 three times.



4. Select Version Information from the Diagnostic Menu.



INFOID:000000013019756

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

5. Scroll through the menu pages to Bluetooth D/C(serial #) and record the number displayed.

	record the number displayed.	Version Information
2 .F	>> GO TO 2. REGISTER REPLACEMENT AUDIO UNIT	E
Reg	ister the replacement audio unit by contacting NISSAN Owner Ser	vices. Refer to TSB.
3 .0	>> GO TO 3. DPERATION CHECK	F
Veri	fy that the audio unit "APPS" function operates normally.	
RE Con	>> Work End. GISTRATION (AUDIO UNIT) : Work Procedure (Sa tact SiriusXM Dealer Support at 1-800-852-9696 to confirm the su firmed, perform the following procedure:	tellite Radio Registration)
1.	Park the vehicle outside.	J
2.	Turn ignition ON.	k
3.	Turn the radio ON and tune to channel "O" on the XM source.	
4.	Write down the 8-digit SiriusXM Radio ID displayed on the screen	
5.	Tune to channel "1" on the XM source and leave the radio ON.	N
6.	Activate service at www.siriusxm.com/refresh or by calling SiriusX	M Dealer Support at 1-800-852-9696.
7.	The service should be activated within 30 minutes. Audio will br than "1".	roadcast when tuned to channels other
8.	Turn ignition OFF and wait 5 minutes. NOTE: Do not disconnect the battery or pull any fuses during this time.	F
9.	Turn ignition ON.	
10.	Check that the activated service is operational.	

[DISPLAY AUDIO]

DTC/CIRCUIT DIAGNOSIS POWER SUPPLY AND GROUND CIRCUIT AUDIO UNIT

AUDIO UNIT : Diagnosis Procedure

INFOID:000000013019758

Regarding Wiring Diagram information, refer to AV-27, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
7	ACC power supply	25 (5A)
19	Battery power supply	15 (20A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector M171.

3. Check voltage between audio unit connector M171 and ground.

Audi	o unit	Ground	Condition	Voltage
Connector	Terminal	Cround	Condition	(Approx.)
M171	7		Ignition switch: ON	Battery voltage
	19		Ignition switch: OFF	Dattery Voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3.CHECK GROUND CIRCUIT

Check continuity between audio unit connectors and ground.

Audio unit		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
M171	20	—	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

FRONT TWEETER

[DISPLAY AUDIO]

< DTC/CIRCUIT DIA	GNC	SIS >					DISPLAY AUDIO]	
FRONT TWEE	TEF	२						Λ
Diagnosis Proce	Diagnosis Procedure						INFOID:000000013019760	~
								В
Regarding Wiring Dia	gram	information, refe	r to <u>AV-27</u>	7, "Wiring Dia	<u>agram"</u> .			
1.CONNECTOR CH	ECK							С
Check the audio unit	and s	peaker connecto	rs for the	following:				D
 Damage 	1							D
Is the inspection resu	lt nor	mal?						F
YES >> GO TO 2								
2.CHECK FRONT T	e terr WEE	TER SIGNAL CI	ors. RCUIT CC					F
1. Disconnect audio	unit	connector M17 a	nd suspec	ct front twee	ter connector.			1
2. Check continuity	betw	een audio unit co	nnector N	1171 and sus	spect front twe	eter conne	ector.	G
Audi	o unit			Front tweeter				
Connector		Terminal	Cor	nnector	Termina	I	Conunuity	Н
		2	M10	09 (LH)	1			
M171		11			1		Yes	
		12	M1 ⁻	11 (RH)	2		-	
3. Check continuity	betw	een audio unit co	nnector N	1171 and gro	ound.			J
	Aud	io unit						
Connector		Termina	al		Ground		Continuity	K
		2						
M171		3 11			_		No	L
		12						
Is the inspection resu	lt nor	mal?						M
NO >> Repair or	repla	ace harness or co	onnectors.					
3. CHECK FRONT T	WEE	TER SIGNAL						AV
 Connect audio ur Turn ignition swit Push audio unit F Check signal betw 	nit con ch to POWE ween	nnector M171 and ACC. ER switch. audio unit conne	d suspect ctor M171	front tweete	r connector. d.			0
 	unit ac	ppostor M474						
(+)	ariit CO	(–)		Co	ndition	R	eference value	Ρ
Terminal		Terminal						

FRONT TWEETER

< DTC/CIRCUIT DIAGNOSIS >

2	3		
11	12	Audio signal output	(V) 1 0 -1 • 2ms SKIB3609E

Is the inspection result normal?

>> Replace front tweeter. Refer to <u>AV-67, "Removal and Installation"</u>. >> Replace audio unit. Refer to <u>AV-66, "Removal and Installation"</u>. YES

NO

FRONT DOOR SPEAKER

< DTC/CIRCUIT DIA	GNOSIS >				[DISPLAY AUDIO]
FRONT DOOR	SPEAKER					
Diagnosis Proce	dure					INFOID:000000013019759
Regarding Wiring Dia	gram information, refe	er to <u>AV-27.</u>	"Wiring Dia	<u>agram"</u> .		
CONNECTOR CH	ECK					
Check the audio unit	and speaker connector	ors for the fo	ollowing:			
Damage						
Disconnected or lo	ose terminals					
<u>S the inspection resu</u>	<u>it normal?</u>					
NO >> Repair th	e terminals or connec	tors.				
2.CHECK FRONT D	OOR SPEAKER SIG	NAL CIRCU	JIT CONTIN	NUITY		
1. Disconnect audic	unit connector M171	and suspect	ct front doo	r speaker conr	ector.	
2. Check continuity	between audio unit co	onnector M1	171 and sus	spect front doo	r speaker	connector.
Audi	io unit		Front doo	or speaker		Continuity
Connector	Terminal	Conr	nector	Termina	I	Continuity
	2	– D12	2 (LH)	1		
M171	3		· · /	2		Yes
	11	– D112	2 (RH)	1		
B. Check continuity	between audio unit co	onnector M1	171 and gro	2 bund.		
	Audio unit		-			
Connector	Termin	al	_	Ground		Continuity
	2					
	3		_			
M171	11		_			No
	12		-			
s the inspection resu	It normal?					
YES >> GO TO 3		onnostoro				
NO >> Repair or CULCK EDONE D						
	OUR SPEAKER SIG				1	
 Connect audio ur Turn ignition swit 	nit connector M171 an ch to ACC.	ia suspect f	ront door s	peaker connec	tor.	
B. Push audio unit F	POWER switch.		_	_		
 Check signal bet 	ween audio unit conne	ector M171	and ground	d.		
Audio	unit connector M171					
(+)	(-)		Co	ndition	R	eference value
Terminal	Termina	al				

FRONT DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >



Is the inspection result normal?

>> Replace front door speaker. Refer to <u>AV-68, "Removal and Installation"</u>.
>> Replace audio unit. Refer to <u>AV-66, "Removal and Installation"</u>. YES

NO

REAR DOOR SPEAKER

< DTC/CIRCUIT DIA	GNOSIS >					[DISPLAY AUDIO]
REAR DOOR S	SPEAKER					
Diagnosis Proce	dure					INFOID:000000013019761
Regarding Wiring Dia	gram information, refe	er to <u>AV-27.</u>	"Wiring Dia	agram".		
I.CONNECTOR CH	ECK					
 Proper connection Damage Disconnected or lo Is the inspection resurvey YES >> GO TO 2 NO >> Repair the CHECK REAR DO 	and speaker connecto ose terminals I <u>t normal?</u> e terminals or connec	tors.		ШТУ		
 Disconnect audic Check continuity 	unit connector M171 between audio unit co	and suspector M1	t rear door 71 and sus	speaker conn spect rear door	ector. [•] speake	er connector.
Audi	io unit		Rear door speaker		Continuity	
Connector	Terminal	Conn	ector	Termina		
M171	4 5 13	D207	(LH)	1 2 1		Yes
3. Check continuity	14 between audio unit co	onnector M1	71 and gro	2 pund.		
	Audio unit					
Connector	Termin	al		Ground		Continuity
	4					
M171	5			_	No	
Is the inspection resu YES >> GO TO 3 NO >> Repair or	It normal? replace harness or co	onnectors.				
3.CHECK REAR DC	OR SPEAKER SIGN	AL				
 Connect audio ur Turn ignition swit Push audio unit F Check signal bety 	nit connector M43 and ch to ACC. POWER switch. ween audio unit conne	suspect rea	ar door spe and ground	eaker connecto I.	r.	
Audio	unit connector M171					
(+)	(-)		Co	ndition		Reference value
Terminal	Termina	I				

REAR DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

4	5		
13	14	Audio signal output	(V) 1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1

Is the inspection result normal?

>> Replace rear door speaker. Refer to <u>AV-69, "Removal and Installation"</u>.
>> Replace audio unit. Refer to <u>AV-66, "Removal and Installation"</u>. YES

NO

MICROPHONE SIGNAL CIRCUIT

Diagnosis Procedure

Regarding Wiring Diagram information, refer to AV-27, "Wiring Diagram".

1. CHECK MICROPHONE SIGNAL CIRCUIT CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector M175 and microphone connector R5.

3. Check continuity between audio unit connector M175 and microphone connector R5.

Au	Audio unit		Microphone	Continuity	
Connector	Terminal	Coni	nector	Terminal	Continuity
	37		1		
M175	38	F	۲5	4 Yes	
	39			2	
. Check continuity	between audio	unit connector M1	75 and ground.		
	Audio unit				
Connector		Terminal	Grour	nd	Continuity
		37			
M175		38	—		No
		39	-		
 Connect audio u Turn ignition swi Check voltage b 	init connector M1 tch ON. etween terminals	75. of audio unit con	nector M175.	I	
(.)	Audio unit con	nector M175	Vo		Voltage
(+) Tormin		(- 	(-) To main al		(Approx.)
			30		501/
the inspection read	ult pormal?	0			5.0 V
YES >> GO TO : NO >> Replace	3. audio unit. Refe	r to <u>AV-66, "Remo</u>	oval and Installat	tion".	
3. CHECK MICROP	HONE SIGNAL				
Connect micropl Check signal be	none connector F tween terminals o	85. of audio unit conn	ector M175.		

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INFOID:000000013019763

MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Audio unit co	nnector M175			
(+)	(-)	Condition	Reference value	
Terminal	Terminal			
37	39	Speak into microphone.	(V) 1 0 -1 • 2ms SKIB3609E	

Is the inspection result normal?

>> Replace audio unit. Refer to <u>AV-66, "Removal and Installation"</u>.
>> Replace microphone. Refer to <u>AV-73, "Removal and Installation"</u>. YES

NO

[DISPLAY AUDIO]

INFOID:000000013019764

< DTC/CIRCUIT DIAGNOSIS >

STEERING SWITCH

Diagnosis Procedure

Regarding Wiring Diagram information, refer to AV-27, "Wiring Diagram".

WITH TYPE A METER

1. CHECK STEERING WHEEL AUDIO CONTROL SWITCH RESISTANCE

- Turn ignition switch OFF. 1.
- 2. Disconnect combination switch connector M30.
- Check resistance between combination switch connector terminals. 3.

Combination switch connector M88		Condition	Resistance Ω	
Terminal	Terminal	Condition	(Approx.)	
		Depress SOURCE switch.	1	
		Depress Δ switch.	121	
10		Depress ∇ switch.	321	
		Depress 🖉 🔬 switch.	723	
		Depress ENTER switch.	2023	
		Depress - 🕅 switch.	1	
		Depress 🗹 + switch.	121	
14		Depress 🗪 switch.	321	
		Depress menu right switch.	723	
		Depress menu left switch.	2023	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace steering switches. Refer to AV-70, "Removal and Installation".

2. CHECK HARNESS BETWEEN COMBINATION SWITCH AND COMBINATION METER

Disconnect combination meter connector M24 and combination switch connector M30. 1.

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

Combination meter		Combina	ation switch	Continuity	_
Connector	Terminal	Connector	Terminal	Continuity	AV
	1		12		
M24	22	M30	10	Yes	
	23		14		0

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

				P
Combination meter		Cround	Continuity	
Connector	Terminal	Ground	Continuity	
	1			
M24	22	_	No	
	23			

Is the inspection result normal?

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STEERING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3.CHECK COMBINATION SWITCH

Check continuity between combination switch connectors M30 and M199.

	Continuity				
Connector	Terminal	Connector	Terminal	Continuity	
	10		16		
M30	12	M199	19	Yes	
	14		17	-	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace spiral cable. Refer to <u>SR-14, "Removal and Installation"</u>.

4. CHECK HARNESS BETWEEN COMBINATION METER AND AUDIO UNIT

1. Disconnect combination meter connector M25 and audio unit connector M175.

Check continuity between combination meter connector M25 and audio unit connector M175.

Combinat	tion meter	Audio unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M25	51	M175	29	Vec
IVIZ5	52	WIT75	28	165

3. Check continuity between combination meter connector M25 and ground.

Combination meter		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
M25	51		No	
WIZU	52	_	NU	

Is the inspection result normal?

YES >> Replace audio unit. Refer to <u>AV-66. "Removal and Installation"</u>.

NO >> Repair or replace harness or connectors.

WITH TYPE B METER

1. CHECK STEERING WHEEL AUDIO CONTROL SWITCH RESISTANCE

1. Turn ignition switch OFF.

2. Disconnect combination switch connector M30.

3. Check resistance between combination switch connector terminals.

STEERING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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L

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Combination switch connector M88		Condition	Resistance Ω	
Terminal	Terminal	Condition	(Approx.)	
		Depress SOURCE switch.	1	
		Depress Δ switch.	121	
10		Depress ∇ switch.	321	
	Depress 🖉 🏑 switch.	723	(
	10	Depress ENTER switch.	2023	
	12	Depress - 📢 switch.	1	[
		Depress 🗹 + switch.	121	
14	Depress 🗪 switch.	321		
		Depress menu right switch.	723	
		Depress menu left switch.	2023	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace steering switches. Refer to <u>AV-70, "Removal and Installation"</u>.

2. CHECK COMBINATION SWITCH

1. Disconnect combination switch connector M199.

2. Check continuity between combination switch connectors M30 and M199.

Combination switch		Continuity	-		
Connector	Terminal	Connector	Terminal	Continuity	
	10		16		_
M30	12	M199	19	Yes	
	14		17	1	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable. Refer to <u>SR-14, "Removal and Installation"</u>.

3. CHECK HARNESS BETWEEN COMBINATION SWITCH AND AUDIO UNIT

1. Disconnect audio unit connector M175.

2. Check continuity between combination switch connector M30 and audio unit connector M175.

Combina	ation switch	Auc	lio unit	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	۸\/
	10		6		- Av
M30	12	M175	15	Yes	
	14		16	+	0

3. Check continuity between combination switch connector M30 and ground.

Combination switch		Ground	Continuity F
Connector	Terminal	Ground	Continuity
	10		
M30	12	_	No
	14		

Is the inspection result normal?

STEERING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace audio unit. Refer to <u>AV-66, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connectors.

USB CONNECTOR

< DTC/CIRCUIT DIAGNOSIS >

USB CONNECTOR

Diagnosis Procedure

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Regarding Wiring Diagram information, refer to AV-27, "Wiring Diagram".

1. CHECK USB INTERFACE HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector M180 and USB interface connector M185.
- 3. Check continuity between audio unit connector M180 and USB interface connector M185.

Audio unit		USB interface		Continuity	_
Connector	Terminal	Connector	Terminal	Continuity	
	61		1		
	63		3	-	
M180	64	M185	4	Yes	
	65		5	-	
	66		6	-	
Check continuity	between audio unit co	onnector M180 and gro	und.		_
	Audio unit				

Audio unit			Continuity
Connector	Terminal		Continuity
M180	61	Ground	No
100	64	Cibana	

Is the inspection result normal?

YES >> Replace the USB interface. Refer to <u>AV-71, "Removal and Installation"</u>.

NO >> Repair or replace harness or connectors.

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AUXILIARY INPUT JACK

Diagnosis Procedure

[DISPLAY AUDIO]

Regarding Wiring Diagram information, refer to AV-27, "Wiring Diagram".

1. CHECK AUX IN JACK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect audio unit connector M169 and AUX in jack connector M104.
- 3. Check continuity between audio unit connector M169 and AUX in jack connector M104.

Audio	Audio unit		AUX in jack	
Connector	Terminal	Connector	Terminal	Continuity
	54		3	
M169	55	M104	1	Yes
	56		6	

4. Check continuity between audio unit connector M169 and ground.

Audio unit			Continuity	
Connector	Terminal		Continuity	
M160	55	Ground	No	
10105	56	Ground	NU	

Is the inspection result normal?

YES >> Replace the AUX in jack. Refer to <u>AV-71, "Removal and Installation"</u>.

NO >> Repair or replace harness or connectors.

SYMPTOM DIAGNOSIS

AUDIO SYSTEM

Symptom Table

RELATED TO AUDIO

Symptoms	Check items	Probable malfunction location
The disk cannot be removed.	Audio unit	Malfunction in audio unit. Refer to <u>AV-19, "On Board Diagnosis Func-</u> <u>tion"</u> .
	No sound from all speakers.	 Speaker circuit shorted to ground. Refer to <u>AV-27. "Wiring Diagram"</u>. Audio unit power supply and ground circuits malfunction. Refer to <u>AV-46. "AUDIO UNIT : Diagnosis Procedure"</u>.
No sound comes out or the level of the sound is low.	Only a certain speaker (front door speaker LH, front door speaker RH, front tweeter LH, front tweeter RH, rear door speaker LH, rear door speaker RH) does not output sound.	 Poor connector connection of speaker. Sound signal circuit malfunction between audio unit and speaker. Refer to: AV-68. "Removal and Installation" (front door speaker). AV-67. "Removal and Installation" (front tweeter). AV-69. "Removal and Installation" (rear door speaker). Malfunction in speaker. Refer to: AV-68. "Removal and Installation" (front door speaker). Malfunction in speaker. Refer to: AV-67. "Removal and Installation" (front door speaker). AV-67, "Removal and Installation" (front door speaker). AV-69, "Removal and Installation" (rear door speaker). AV-69, "Removal and Installation" (rear door speaker). Malfunction in audio unit. Refer to AV-19, "On Board Diagnosis Function".

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AUDIO SYSTEM

< SYMPTOM DIAGNOSIS >

Symptoms	Check items	Probable malfunction location
	Noise comes out from all speakers.	Malfunction in audio unit. Refer to <u>AV-19, "On Board Diagnosis Func-</u> <u>tion"</u> .
Noise is mixed with audio.	Noise comes out only from a certain speak- er (front door speaker LH, front door speak- er RH, front tweeter LH, front tweeter RH, rear door speaker LH, rear door speaker RH).	 Poor connector connection of speaker. Sound signal circuit malfunction between audio unit and speaker. Refer to: <u>AV-68, "Removal and Installation"</u> (front door speaker). <u>AV-67, "Removal and Installation"</u> (front tweeter). <u>AV-69, "Removal and Installation"</u> (rear door speaker). Malfunction in speaker. Poor Installation of speaker (e.g. back- lash and looseness). Refer to: <u>AV-68, "Removal and Installation"</u> (front door speaker). <u>AV-68, "Removal and Installation"</u> (front door speaker). <u>AV-68, "Removal and Installation"</u> (front door speaker). <u>AV-69, "Removal and Installation"</u> (front tweeter). <u>AV-69, "Removal and Installation"</u> (rear door speaker). Malfunction in audio unit. Refer to <u>AV-19, "On Board Diagnosis Function"</u>.
	Noise is mixed with radio only (when the vehicle hits a bump or while driving over bad roads)	Poor connector connection of antenna or antenna feeder. Refer to <u>AV-15, "Antenna and Antenna</u> <u>Feeder"</u> .
No radio reception or poor reception.	 Other audio sounds are normal. Any radio station cannot be received or poor reception is caused even after mov- ing to a service area with good reception (e.g. a place with clear view and no ob- stacles generating external noises). 	 Antenna amp. ON signal circuit malfunction. Refer to <u>AV-24, "Reference Value"</u>. Poor connector connection of antenna or antenna feeder. Refer to <u>AV-15, "Antenna and Antenna Feeder"</u>.
No satellite radio reception.	Satellite radio antenna malfunction.	 Poor continuity in antenna feeder. Poor connector connection of antenna or antenna feeder. Loose satellite radio antenna mounting nut. Refer to <u>AV-15, "Antenna and Antenna Feeder"</u>.
Buzz/rattle sound from speaker	The majority of buzz/rattle sounds are not indicative of an issue with the speaker, usu- ally something nearby the speaker is caus- ing the buzz/rattle.	Refer to "SQUEAK AND RATTLE TROU- BLE DIAGNOSIS" in the appropriate interi- or trim section.

RELATED TO HANDS-FREE PHONE

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

Check Compatibility

- 1. Make sure the customer's Bluetooth[®] related concern is understood.
- 2. Verify the customer's concern. **NOTE:**

AUDIO SYSTEM

< SYMPTOM DIAGNOSIS >

The customer's phone may be required, depending upon their concern.

Write down the customer's phone brand, model and service provider.
 NOTE:
 It is proceeder, to know the convice provider. On ecception, a given phone may be a

It is necessary to know the service provider. On occasion, a given phone may be on the approved list with one provider, but may not be on the approved list with other providers.

- 4. Go to "www.nissanusa.com/bluetooth/".
- a. Using the website's search engine, find out if the customer's phone is on the approved list.
- b. If the customer's phone is NOT on the approved list:

Stop diagnosis here. The customer needs to obtain a Bluetooth[®] phone that is on the approved list before any further action.

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

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Symptoms	Check items	Probable malfunction location
Does not recognize cellular phone connec- tion (no connection is displayed on the dis- play 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 per- formed, however, voice between each other cannot be heard during the conver- sation. 	Malfunction in audio unit. Replace audio unit. Refer to <u>AV-66, "Re-</u> moval and Installation".
The other party's voice cannot be heard by hands-free phone.	Check the "microphone speaker" in Inspec- tion & Adjustment Mode if sound is heard.	
Originating sound is not heard by the other party with hands-free phone communica-tion.	Sound operation function is normal.	
	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to <u>AV-53</u> , "Diagnosis Procedure".
The system cannot be operated.	 The voice recognition can be controlled. Steering switch's ↓+ and ↓- switch works, but ℓ √ does not work. 	Steering switch malfunction. Replace steering switch. Refer to <u>AV-70,</u> <u>"Removal and Installation"</u> .
	Steering switch's \mathbf{r}_{w} , \mathbf{U} + and \mathbf{U} -switches do not work.	Steering switch signal circuit malfunction. Refer to <u>AV-55, "Diagnosis Procedure"</u> .
	All steering switches do not work.	Steering switch ground circuit malfunction. Refer to <u>AV-55</u> , "Diagnosis Procedure".

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< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

INFOID:000000013019768

[DISPLAY AUDIO]

RELATED TO NOISE

The majority of the audio concerns are the result of outside causes (bad CD, electromagnetic interference, etc.).

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

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

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

NOTE:

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

Type of Noise and Possible Cause

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

RELATED TO HANDS-FREE PHONE

Cause and Counter measure	
bled cellular phones may not be recognized ne module. O HANDS-FREE PHONE (Check Compati- ptom Table".	
able to use a hands-free phone under the fol- de of the telephone service area. area where it is difficult to receive radio a tunnel, in an underground parking garage, or in a mountainous area. is locked to prevent it from being dialed. e is connected through the Bluetooth [®] wire- pattery power of the cellular phone may dis-	

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[DISPLAY AUDIO]

lition is not ideal or ambient sound is too near the other person's voice during a	
hone in an area surrounded by metal or le phone module to prevent tone quality connection disruption.	
	phone in an area surrounded by metal or cle phone module to prevent tone quality connection disruption.

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< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION AUDIO UNIT

Exploded View

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[DISPLAY AUDIO]



1. Audio unit

- 2. Audio unit bracket (LH)
- 3. Audio unit bracket (RH)

Removal and Installation

INFOID:000000012547098

REMOVAL

- 1. Disconnect battery or batteries. Refer to <u>PG-174, "Battery Disconnect"</u>.
- 2. Remove cluster lid C lower. Refer to IP-17. "CLUSTER LID C LOWER : Removal and Installation".
- 3. Remove audio unit screws.
- 4. Disconnect harness connectors from audio unit and remove.
- 5. Remove audio unit bracket (LH/RH) screws and audio unit brackets [(LH/RH) (if necessary)].

INSTALLATION

CAUTION:

 After replacing audio unit, perform "REGISTRATION (AUDIO UNIT)". Refer to <u>AV-44, "REGISTRATION</u> (<u>AUDIO UNIT) : Description</u>".

Installation is in the reverse order of removal.

FRONT TWEETER

< REMOVAL AND INSTALLATION >

FRONT TWEETER

Removal and Installation

REMOVAL

- 1. Remove front pillar finisher. Refer to INT-20, "FRONT PILLAR FINISHER : Removal and Installation".
- 2. Remove defroster grille. Refer to <u>VTL-9</u>, "Exploded View".
- 3. Remove speaker grille. Refer to <u>IP-14, "Exploded View"</u>.
- 4. Remove front tweeter screws (A).
- 5. Disconnect harness connector from front tweeter (1) and remove front tweeter.



Installation Installation is in the reverse order of removal.

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[DISPLAY AUDIO]

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< REMOVAL AND INSTALLATION >

FRONT DOOR SPEAKER

Removal and Installation

REMOVAL

- 1. Remove front door finisher. Refer to INT-14, "Removal and Installation".
- 2. Remove front door speaker screws (A).
- 3. Disconnect harness connector from front door speaker (1) and remove front door speaker.



INSTALLATION Installation is in the reverse order of removal. INFOID:000000012547101

< REMOVAL AND INSTALLATION >

REAR DOOR SPEAKER

Removal and Installation

REMOVAL

- 1. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
- 2. Remove rear door speaker screws (A).
- 3. Disconnect harness connector from rear door speaker (1) and remove rear door speaker.



INSTALLATION Installation is in the reverse order of removal. INFOID:000000012547102

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STEERING SWITCHES

< REMOVAL AND INSTALLATION >

STEERING SWITCHES

Exploded View

INFOID:000000013220098



Driver air bag module 4.

Removal and Installation

INFOID:000000012547104

REMOVAL

1.

- Remove steering wheel. Refer to ST-34, "Removal and Installation". 1.
- 2. Remove steering wheel rear cover screws and steering wheel rear cover.
- 3. Remove steering wheel switch screws and steering wheel switches.

INSTALLATION

Installation is in the reverse order of removal.

< REMOVAL AND INSTALLATION >

USB INTERFACE AND AUX IN JACK

INFOID:000000013220262

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- 1. Remove cluster lid C lower. Refer to IP-17, "CLUSTER LID C LOWER : Removal and Installation".
- 2. Disconnect harness connector from USB interface and aux in jack.
- 3. Release pawls using suitable tool and remove USB interface and aux in jack.

INSTALLATION

Installation is in the reverse order of removal.

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SATELLITE RADIO ANTENNA

Removal and Installation

SATELLITE RADIO ANTENNA

REMOVAL

- 1. Partially remove headlining. Refer to INT-32, "Removal and Installation".
- 2. Disconnect the harness connector (A) from the satellite radio antenna connector.
- 3. Remove the satellite radio antenna nut (B).
- 4. Remove the satellite radio antenna (1).



INSTALLATION

Installation is in the reverse order of removal.

• Tighten satellite radio antenna to specification.

Satellite radio antenna nut : 10.1 N·m (1.0 kg-m, 7.0 ft-lb)

CAUTION:

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

INFOID:000000012547110
MICROPHONE

< REMOVAL AND INSTALLATION >

MICROPHONE

Removal and Installation

REMOVAL

- 1. Remove front room/map lamp assembly. Refer to INL-68. "Removal and Installation".
- 2. Disconnect harness connector from microphone (A).
- 3. Release pawls using suitable tool and remove microphone (1) from front room/map lamp assembly (2).

(]) :Pawl



INSTALLATION Installation is in the reverse order of removal.

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< REMOVAL AND INSTALLATION >

ROD ANTENNA

Removal and Installation

REMOVAL

- 1. Remove antenna rod.
- 2. Remove fender protector. Refer to EXT-32, "Removal and Installation Front Fender Protector".
- 3. Remove bolt (A) from rod antenna bracket (1).



- 4. Disconnect the rod antenna feeder from the rod antenna.
- 5. Remove rod antenna.

INSTALLATION

Installation is in the reverse order of removal.

• Tighten rod antenna to specification.

Rod antenna

: 7.0 N·m (0.71 kg-m, 62 in-lb)

CAUTION:

Always properly tighten the rod antenna during installation or the rod antenna may bend or break during vehicle operation.

[DISPLAY AUDIO]

< PRECAUTION > PRECAUTION

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PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT **PRF-TENSIONER**" INFOID:000000013481956

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual. D

WARNING:

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

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

WARNING:

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

Cautions in Removing Battery Terminal and AV Control Unit

CAUTION:

Remove battery terminal or terminals, display control unit, 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 display control unit and the AV control unit continue operating for approximately 30 seconds.

Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

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.
- AV Be sure to turn ignition switch OFF and disconnect the battery cable or cables from the negative terminal or terminals before checking the circuit. Refer to PG-174, "Battery Disconnect".

Precaution for Harness Repair

AV COMMUNICATION SYSTEM

PRECAUTIONS

< PRECAUTION >

[NAVIGATION WITHOUT AMPLIFIER]

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



NG: Bypass wire connection

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

Precaution for Work

PKIA0307E

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- · Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

PREPARATION

Special Service Tools

INFOID:000000013024597 B

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

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

Commercial Service Tools

INFOID:000000013024598

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

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SYSTEM DESCRIPTION COMPONENT PARTS

Component Parts Location

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No.	Component	Function
1.	Rear door speaker RH	Refer to AV-79, "Speaker".
2.	Microphone	Refer to AV-80, "Microphone".
3.	AV control unit	Refer to AV-79, "AV Control Unit".
4.	Front tweeter RH	Refer to <u>AV-79, "Speaker"</u> .
5.	Rod antenna	Refer to AV-81, "Antenna and Antenna Feeder".
6.	Front door speaker RH	Refer to <u>AV-79. "Speaker"</u> .
7.	GPS antenna	Refer to AV-80, "GPS Antenna".
8.	USB interface and AUX in jack	Refer to AV-80, "USB Interface and AUX In Jack".
9.	Front tweeter LH	Refer to <u>AV-79. "Speaker"</u> .
10.	Front door speaker LH	Refer to <u>AV-79. "Speaker"</u> .
11.	Combination meter	Refer to MWI-12, "METER SYSTEM : Combination Meter".
12.	Steering switches	Refer to AV-80, "Steering Switches".

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[NAVIGATION WITHOUT AMPLIFIER]

No.	Component	Function	٨
13.	Satellite antenna	Refer to AV-81, "Antenna and Antenna Feeder".	A
14.	Rear door speaker LH	Refer to AV-79. "Speaker".	

AV Control Unit

Description

- A 7-inch QVGA display, an AM/FM electronic tuner radio, CD drive, audio amplifier, Bluetooth[®] module, camera controller and navigation unit are integrated into the AV control unit.
- The 7-inch display is a high resolution monitor that includes touch panel functions.
- Music files stored in iPod^{®*}/USB memory can be played using the separate USB interface.
- *: iPod[®] is a registered trademark of Apple, Inc. All rights reserved.



INFOID:000000013211800

INFOID:000000013211805

В

Speaker

FRONT TWEETER

- 5.1 cm (2 in) speakers are installed in the top corners of the instrument panel assembly.
- · Sound signals generated by the audio unit output high range sounds.



FRONT DOOR SPEAKER

- 15.2 x 22.9 cm (6 x 9 in) speakers are installed in the bottom of the front doors.
- · Sound signals generated by the audio unit output low range sounds.



REAR DOOR SPEAKER

- 16.5 cm (6.5 in) speakers are installed in the bottom of the rear doors.
- · Sound signals generated by the audio unit output mid range sounds.



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COMPONENT PARTS

< SYSTEM DESCRIPTION >

USB Interface and AUX In Jack

- USB Interface and AUX in jack is installed in the cluster lid C lower.
- ${\mbox{\ \ only}}\ {\mbox{\ \ only}}\ {\ \ only}}\ {\mbox{\ \ only}}\ {\mbox{\ \ only}}\ {\mbox{\ \ only}}\ {\ \ only}}\ {\mbox{\ \ only}}\ {\ \ only}\ {\ \ only}}\ {\ \ only}\ {\ \ only}\ {\ \ only}}\ {\ \ only}\ {\ only}\ {\ \ only}}\ {\ \ only}\ {\ \ only}\ {\ \ only}}\ {\ \ only}\ {\ \ only}\ {\ \ only}}\ {\ \ only}\ {\ \ only}\ {\ \ only}}\ {\ \ only}\ {\ \ only}\ {\ only}\ {\ only}}\ {\ \ only}\ {\ on$ through the USB interface.
- · An external audio device can be connected to the audio unit through the AUX in jack.



Steering Switches

Microphone

GPS Antenna

ter lid C finisher (LH).

· Operations for audio and hands-free phone are possible.

• The microphone is installed in the front roof console.

• Switch is connected to the audio unit.

· Power is supplied from the audio unit.

Э₫€ AWNIA4295Z2

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JSNIA6009Z2



INFOID:000000013211807

• Map data is memorized in the SD card.

· Power is supplied from the AV control unit.

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

SD Card



INFOID:000000013211802

Antenna and Antenna Feeder

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RADIO AND SATELLITE ANTENNAS AM/FM radio rod antenna is located on the right front fender. The satellite antenna is located on the front left side of the roof.



ANTENNA FEEDER



COMPONENT PARTS

< SYSTEM DESCRIPTION >

- 1. Rod Antenna
- 4. M188, R108

M147
 R109

- 3. M146
- 6. Satellite Antenna

SYSTEM

System Description

INFOID:000000013024602

[NAVIGATION WITHOUT AMPLIFIER]



DESCRIPTION

Refer to Owner's Manual for navigation and audio system operating instructions. Audio function and display are built into AV control unit.

Audio function and display are built into AV control u

This navigation unit has the following functions:

- Map data on SD-card
- · High resolution color 5 inch display with touch panel function
- FM/AM twin digital tuner
- USB interface and AUX in jack
- Full support for playback of music from iPod[®]
- Satellite radio
- Hands-free phone system

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

NAVIGATION SYSTEM FUNCTION

Description

- The navigation system can be operated by control panel of the AV control unit and display (touch panel) of the AV control unit.
- Guide sound during the operation of the navigation system is output from AV control unit to front speakers.
- AV 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. The vehicle location is displayed on the AV 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.

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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.



[NAVIGATION WITHOUT AMPLIFIER]

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 this case, the vehicle mark on the display must be corrected manually.

 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.

Routes 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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 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.

SATELLITE RADIO FUNCTION

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

USB INTERFACE AND AUX IN JACK FUNCTION

- Sound and data signals are transmitted from USB interface to the AV control unit and output to each speaker and tweeter.
- Sound signals are transmitted from AUX in jack to the AV control unit and output to each speaker and tweeter.

SPEED SENSITIVE VOLUME SYSTEM

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

HANDS-FREE PHONE SYSTEM

- Bluetooth $^{\ensuremath{\mathbb{R}}}$ control is built into AV control unit.
- The connection between cellular phone and AV control unit is performed with Bluetooth[®] communication.
- The voice guidance signal is input from the AV control unit and output to the front speakers when operating the cellular phone.

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Actual vehicle traced route



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When A Call Is Originated

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

When Receiving A Call

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION > DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Description

The AV control unit on board diagnosis performs the functions listed in the table below:

Mode		Item	Content
	Version		Version data of the AV control unit is displayed.
	Touch Display Calibration	_	Calibration of the touch panel display can be performed.
User Configuration	Screenshot to USB	_	A screenshot of the display can be saved to USB memory.
	Time Interval	_	Destination time interval can be selected.
Radio	FM monitor	—	Monitors the dynamic values of the cur-
	AM monitor		rent tuner
	SXM monitor	_	Version data is displayed.
System State	Running System Status	 SD card slot acces. Power Supply Speed Signal Direction Signal Illumination Signal GPS Antenna GPS tracking Satellites visible Satellites tracked Microphone Current Steer. wheel key Radio Antenna #No translation requi SXM Antenna USB Device iPod firmware ver. BT Status 	The current system status is displayed.
	Speaker Test 4kHz Speaker Test 100Hz		This activates a sequence of test tone outputs to the audio circuits one after the other for 1 second.
	Display-Test		This provides a test sequence where test displays (plain colored display: e.g. white, black, red, blue, green) are shown one after the other. The respective color is shown for an in- dicated period of time (parameter). After the display test, the design of the display previously available is stored. While the screen shows a plain colored display, a pixel malfunction may be detected.
Self Test		 SD Card Access BT Module Access GPS Antenna Radio Antenna SXM Antenna 	A system self test is executed and the results are stored into the error memory.

Perform CONSULT diagnosis if the AV control unit on board diagnosis does not start or the screen does not display anything.

On Board Diagnosis Function

METHOD OF STARTING Turn the ignition ON.

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Revision: March 2016

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DIAGNOSIS SYSTEM (AV CONTROL UNIT) ON > [NAVIGATION WITHOUT AMPLIFIER]

< SYSTEM DESCRIPTION >

- 2. Turn the audio system OFF.
- While pressing the APPS button, turn the TUNE-SCROLL dial counterclockwise 5 or more clicks, then clockwise 5 or more clicks, then counterclockwise 5 or more clicks. Shifting from current screen to previous screen is performed by pressing BACK button.



4. The trouble diagnosis initial screen is displayed, and Version, User Configuration, Radio, System State or Self Test can be selected.



CONSULT Function

INFOID:000000013024605

CAUTION:

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

CONSULT FUNCTIONS

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

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

ECU IDENTIFICATION The part number of AV control unit is displayed.

SELF DIAGNOSTIC RESULT

Refer to <u>AV-93, "DTC Index"</u>.

DATA MONITOR

Monitor Item [Unit]	Description
VHCL SPD SIG [On/Off]	Indicates vehicle speed signal received from combination meter on CAN communication line.
ILLUM SIG [On/Off]	Indicates condition of illumination signal for the AV control unit.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[NAVIGATION WITHOUT AMPLIFIER]

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

CONFIGURATION

Refer to AV-111, "CONFIGURATION (AV CONTROL UNIT) : Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-48, "CAN Diagnostic Support Monitor".

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< ECU DIAGNOSIS INFORMATION >

[NAVIGATION WITHOUT AMPLIFIER]

ECU DIAGNOSIS INFORMATION AV CONTROL UNIT

Reference Value

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VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
	Vehicle speed = 0 km/h (0 MPH).	Off
VIICE OF DIG	Vehicle speed > 0 km/h (0 MPH).	On
	Illumination signal is not received.	Off
	Illumination signal is received.	On
	Ignition switch OFF or ACC.	Off
	Ignition switch ON.	On
PEV SIC	Selector lever in any position other than R.	Off
NEV SIG	Selector lever in R position.	On

TERMINAL LAYOUT



PHYSICAL VALUES

Terr (Wire	ninal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)
2 (L/W)	3 (L/R)	Sound signal front door speaker and front tweeter LH	Output	ON	Sound output	(V) 1 0 -1 2 ms skib3609E
4 (SB)	5 (B/Y)	Sound signal rear door speaker LH	Output	ON	Sound output	(V) 1 0 -1 2 SKIB3609E
7 (R)	Ground	ACC power supply	Input	ACC	_	Battery voltage
8 (L)		CAN high	Input/ Output		_	

AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[NAVIGATION WITHOUT AMPLIFIER]

Terr (Wire)	ninal color)	Description			Condition	Reference value	А
+	_	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)	
9 (L)	Ground	Illumination ON control sig- nal	Input	ON	Parking lamps or head- lamps ON	Battery voltage	В
11 (W/B)	12 (L/B)	Sound signal front door speaker and front tweeter RH	Output	ON	Sound output	(V) 1 0 -1 • 2ms SKIB3609E	C
13 (O/L)	14 (R/L)	Sound signal rear door speaker RH	Output	ON	Sound output	(V) 1 0 -1 • 2ms SKIB3609E	F
17 (P)	_	CAN low	Input/ Output	_	_	_	Ц
18 (G)	Ground	Vehicle speed signal	Input	ON	When vehicle speed is ap- prox. 40 km/h (25 MPH)	0 20 ms JUNIA012GB	П Ј
19 (W)	Ground	Battery power supply	Input	OFF	_	Battery voltage	K
20 (B)	Ground	Ground		ON	_	0 V	r.
21 (LG)	_	AV communication (L)	Input/ Output	_	—	_	L
22 (SB)		AV communication (H)	Input/ Output	_		_	
23 (L)		MR output	Output	_		_	IVI
28	Ground	Reverse signal	Innut	ON	Selector lever in R (re- verse)	Battery voltage	AV
(G/W)	Cround		mput		Selector lever in any posi- tion other than R (reverse)	0 V	
30 (V)	Ground	AUX audio signal LH	Input	ON	AUX audio signal received	(V) 1 0 1 2 ms skib3609E	P
31 (GR)	_	AUX ground		ON	_	0V	

AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[NAVIGATION WITHOUT AMPLIFIER]

Terr (Wire)	ninal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)
32 (G)	Ground	AUX audio signal RH	Input	ON	AUX audio signal received	(V) 1 0 -1 • 2ms SKIB3609E
33 (L/W)	Ground	Camera ground	_	ON	_	0 V
34 (L)	Ground	Camera power supply	Output	ON	When camera image is displayed	6.0 V
36 (R)	35 (R/W)	Camera image signal	Input	ON	Except for above When camera image is dis- played	0 V (V) 0.4 0 −0.4 • 40µs skiB2251j
37 (G/R)	Ground	Ignition power supply	Input	ON or START	_	Battery voltage
38 (LG)		AV communication (L)	Input/ Output	_		_
39 (SB)		AV communication (H)	Input/ Output	_	_	_
40 (Shield)		AUX shield			_	_
42 (R)	Ground	Microphone power supply	Output	ON	_	5.0 V
43 (W)	41 (Shield)	Microphone signal	Input	ON	While speaking into micro- phone.	(V) 1 0 -1 • 2ms skib3609E
44 (GR)	Ground	Illumination dimming con- trol signal	Input	ON	CPM lighting ON	0 0 0 0 0 0 0 0 0 0 0 0 0 0
45 (B)		V BUS signal			_	_
47 (G)		USB D– signal				
48 (W)		USB D+ signal				_

AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[NAVIGATION WITHOUT AMPLIFIER]

Terr (Wire)	ninal color)	Description			Condition	Reference value	А
+	-	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)	
49 (R)		USB ground		_	_	_	В
50 (Shield)		USB shield	_	_		_	С
52 (B)	_	AM/FM antenna signal	_	_		_	
53 (Shield)	_	AM/FM antenna shield	_	_	_	_	D
56 (B)	Ground	Satellite antenna signal	Input	ON	_	5.0 V	E
57 (Shield)	_	Satellite antenna shield	_	_	_	_	
58 (B)	Ground	GPS antenna signal	Input	ON	_	5.0 V	F
59 (Shield)	_	GPS antenna shield	_	_	_	_	G

DTC Index

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CONSULT Display	Reference Page	
U1000: CAN COMM CIRCUIT	AV-115, "DTC Description"	
U1010: CONTROL UNIT(CAN)	AV-116. "DTC Description"	
U1217: BLUETOOTH MODULE	AV-117. "DTC Description"	_
U1229: iPod CERTIFICATION	AV-118, "DTC Description"	J
U1244: GPS ANTENNA CONN	AV-119. "DTC Description"	
U1258: XM ANTENNA CONN	AV-120. "DTC Description"	_
U1263: USB OVERCURRENT	AV-122, "DTC Description"	K
U12AA: Configuration Error	AV-123, "DTC Description"	
U12AB: FM Antenna error	AV-124, "DTC Description"	
U12AC: Display Temperature too High	AV-125. "DTC Description"	
U12AD: ECU Temperature too High	AV-126, "DTC Description"	
U12AE: Internal Amplifier temperature Warning	AV-127, "DTC Description"	M
U12AF: CD Mechanism Temperature Warning	AV-128. "DTC Description"	
U12B0: Supply Voltage Goes below 9V > 20s	AV-129. "DTC Description"	۸\/
U12B1: Supply Voltage Goes High > 16V for 20s	AV-130, "DTC Description"	-AV

WIRING DIAGRAM NAVIGATION WITHOUT AMPLIFIER

Wiring Diagram

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NAVIGATION WITHOUT AMPLIFIER CONNECTORS Connector No. Connector Name Connector Type Connector Color B6 WIRE TO WIRE TK10FW-NS8 Connector Name Connector Type Connector Color Connector No.

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	32A	G/R	TO MAIN HARNESS
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	49A	R/L	TO MAIN HARNESS
	50A	В	TO MAIN HARNESS
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NAVIGATION WITHOUT

Connector No. Connector Name Connector Type Connector Color

H.S.

AANIA5007GB

NAVIGATION WITHOUT AMPLIFIER [NAVIGATION WITHOUT AMPLIFIER]

< WIRING DIAGRAM >

Connector No	o. D2	Connector No.	D101	Connector No.	D201	Connector N	ю.	301
Connector Na	ame WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Nam	e WIRE TO WIRE	Connector N	lame W	IRE TO WIRE
Connector Ty	/pe NS16FW-CS	Connector Type	NS10FW-CS	Connector Type	TK10MW-NS8	Connector T	The Th	K10MW-NS8
Connector Co	olor WHITE	Connector Color	WHITE	Connector Colo	r WHITE	Connector C	Color W	HITE
H.S.	7 6 5 4 3 3 2 1 2 2 2 2 1	H.S.	4 4 6 7 7 7 7 7 7 7 7 7	H.S.	1 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10	H.S.		2 3 4 5 - 6 7 8 9 10 1 2 13 14 15 16 17 18
				_				
Terminal (No.	Color of Signal Name	Terminal Color No. Wirt	of Signal Name	Terminal Col- No. W	or of ire	Terminal No.	Color of Wire	Signal Name
-	B/W TO MAIN HARNESS	1 BM	TO MAIN HARNESS	-	- TO BODY HARNESS	-	,	TO BODY NO. 2 HARNESS
3 6	G/B TO MAIN HARNESS L TO MAIN HARNESS	3 B	TO MAIN HARNESS TO MAIN HARNESS	~ ~ ~	- TO BODY HARNESS - TO BODY HARNESS	N 6		TO BODY NO. 2 HARNESS TO BODY NO. 2 HARNESS
4	R TO MAIN HARNESS	4 V	TO MAIN HARNESS	4	- TO BODY HARNESS	4	,	TO BODY NO. 2 HARNESS
C1	W/R TO MAIN HARNESS	5 W/B	TO MAIN HARNESS	ŝ	- TO BODY HARNESS	2		TO BODY NO. 2 HARNESS
9	W/L TO MAIN HARNESS	6 G/Y	TO MAIN HARNESS	9	- TO BODY HARNESS	9	'	TO BODY NO. 2 HARNESS
7	V TO MAIN HARNESS	7 W/E	TO MAIN HARNESS	~ 0	TO BODY HARNESS	2	- 5	TO BODY NO. 2 HARNESS TO DODY NO. 0 HARNESS
o	I /W TO MAIN HARNESS	° 6	TO MAIN HARNESS TO MAIN HARNESS	o o	- TO BODY HARNESS	o	- 6	TO BODY NO. 2 HARNESS
10	L/R TO MAIN HARNESS	10	TO MAIN HARNESS	10	- TO BODY HARNESS	10	,	TO BODY NO. 2 HARNESS
=	L/W TO MAIN HARNESS			11	VY TO BODY HARNESS	1	RL	TO BODY NO. 2 HARNESS
12	L TO MAIN HARNESS	Connector No	D112	12 5	TO BODY HARNESS	12	O/L	TO BODY NO. 2 HARNESS
13	Y TO MAIN HARNESS	Connector Name	ERONT DOOR SPEAKER RH	13 E	3R TO BODY HARNESS	13	>	TO BODY NO. 2 HARNESS
14	SB TO MAIN HARNESS	Connector Tune		14	Y TO BODY HARNESS	14	BB	TO BODY NO. 2 HARNESS
15	V TO MAIN HARNESS	Connector Color		15	B TO BODY HARNESS	15	8	TO BODY NO. 2 HARNESS
16	LG TO MAIN HARNESS		WIIIE	16 E	3R TO BODY HARNESS	16	HE :	TO BODY NO. 2 HARNESS
				17	Y TO BODY HARNESS	17	> :	TO BODY NO. 2 HARNESS
Connector N	o. D12			18	V IO BOUY HARNESS	18	>	I 0 BODY NO. 2 HAHNESS
Connector Na	ame FRONT DOOR SPEAKER LH	H.S.						
Connector Ty	/pe NS02FW-CS		2 1	Connector No.	D207	Connector N	ö.	307
Connector Co	olor WHITE			Connector Nam	e REAR DOOR SPEAKER LH	Connector N	lame Rt	EAR DOOR SPEAKER RH
f	-			Connector Type	NS02FW-CS	Connector T	ype N	S02FW-CS
1444		Tominal		Connector Colo	r WHITE	Connector C	Color W	HITE
H.S.		No. Wire	or Signal Name	E		E		
		1 W/B	FR SPEAKER +					
	- 7	2 L/B	FR SPEAKER -	H.S.		H.S.		
					2 1			2 1
Terminal (Color of Signal Name							
-	L/W FR SPEAKER LH -			Terminal Colt	or of Signal Name	Terminal	Color of	Signal Name
2	L/H FH SPEAKEH LH +			- NO.	R BLHOIT +	- NO.	MIE	RR RH OILT -
				2	KY RR LH OUL -	2	RYL	KK KH OUI +
	ŀ							
0	M	K	l J	H	F	D	С	В

NAVIGATION WITHOUT AMPLIFIER CONNECTORS

Revision: March 2016

2016 Titan NAM

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NAVIGATION WITHOUT AMPLIFIER [NAVIGATION WITHOUT AMPLIFIER]

< WIRING DIAGRAM >

E-TM4 266 R/w 6-TM4 266 R/w 266 R/w 266 R/w 266 R/w 266 R/w 261 R/w 266 R/w 261 R/w 266 R/w 261 R/w 286 R/w 262 R/w 286 R/w 263 R/w 286 R/w 264 R/w 286 R/w 265 R/w 286 R/w 265 R/w 286 R/w 264 R/w 286 R/w 264 R/w 286 R/w 264 R/w 286 R/w 265 R/w 286 R/w 2	TO MAIN HARNESS TO MAIN HARNESS - WITH TO MAIN HARNESS - WITH TO MAIN HARNESS - WITH WG600) TO MAIN HARNESS TO MAIN HARNESS - WITH TO MAIN HARNESS - WITH	73G 74G 76G 77G 77G 77G 86G 81G 88G 83G 83G 83G 83G 83G 83G 83G 83G 83	SHELD W <th>TO MAIN HARNESS TIO MAIN HARNESS TO MAIN HARNESS</th> <th>11 12 13 14 16 17 17 17 17 18 20 22 23 23 23 23 23 23 23 23 23 23 23 23</th> <th>LVW L L R R R R R M/R V/B V/B V/B V/B V/B V/B V/B V/B V/B V/B</th> <th>TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS</th>	TO MAIN HARNESS TIO MAIN HARNESS TO MAIN HARNESS	11 12 13 14 16 17 17 17 17 18 20 22 23 23 23 23 23 23 23 23 23 23 23 23	LVW L L R R R R R M/R V/B V/B V/B V/B V/B V/B V/B V/B V/B V/B	TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS
M4 266 R 276 C.G. 27 275 27 27 275 27 27 270 27 27 270 27 27 270 27 27 270 27 27 270 27 27 270 28 28 270 28 28 270 28 28 270 28 28 270 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS - WITH CUMMINS 63. TO MAIN HARNESS - (WITH MAIN HARNESS TO MAIN HARNESS	746 776 776 776 776 776 860 810 810 810 810 810 810 820 886 886 886 890 890 890 916 916 916 916 930 896 930 996 930 996	W B W W B W W W W W W W W W W W W	TO MAIN HARNESS TO MAIN HARNESS	12 14 15 16 17 17 17 18 19 28 23 28 28 28 28 28 28 28 28 28 28 28 28 28	С Г С С С С С С С С С С С С С С С С С С	TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS
M4 27G C C C C C C C C C C C C C C C C C C C	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS - WITH ULMMINS 6.0U, TO MAIN HARNESS - WITH VC69CD TO MAIN HARNESS TO MAIN HARNESS	75G 76G 776 776 80G 816 816 82G 816 82G 82G 82G 82G 86G 86G 86G 86G 86G 86G 86G 86G 86G 86	W W	TO MAIN HARNESS TO MAIN HARNESS	13 16 17 17 18 18 18 18 20 28 28 28 28 28 28 28 28 28 28 28 28 28	R NB NB NB NB NB NB NB NB NB NB	TO ROOM LAMP HARKESS TO ROOM LAMP HARKESS
286 C4B 286 C4C 286 C4C 286 C4C 286 C4C 286 C4C 285 C4C 285 C4C 285 C4C 286 C4C 286 C4C 286	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS - WITH CUMAIN HARNESS - WITH TO MAIN HARNESS - WITH TO MAIN HARNESS TO MAIN HARNESS - WITH CUMAINS SO - WITH TO MAIN HARNESS - WITH TO WAIN HARNESS - WITH WAIN HARNESS - WITH TO WAIN HARNESS - WITH WAINESS - WITH WAIN HARNESS - WITH WAIN HARN	763 777 786 786 803 816 826 826 826 826 826 826 826 826 826 82	NG NG 1 1	TO MAIN HARNESS TO MAIN HARNESS	14 15 17 18 19 19 19 20 22 23 23 23 23 23 23 23 23 23 23 23 23	R M M M M M M M M M M M M M M M M M M M	TO ROOM LAMP HARKESS TO ROOM LAMP HARKESS
296 G/B 296 G/B 296 B/V 290 B/V 290 B/V 290 B/V 2000/2010 316 P P 316 P P 316 P P 316 B/V 336 V/L 336 C/R 336 C/R 336 C/R 346 C/R 3	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS CUMINNS 6.0.1, UNMINS 6.0.1, UNMIN HARNESS - WITH TO MAIN HARNESS TO MAIN HARNESS - WITH TO MAIN HARNESS - WITH	77G 78G 79G 80G 81G 83G 83G 83G 83G 83G 83G 83G 83G 83G 83	W W	TO MAIN HARNESS TO MAIN HARNESS	15 17 18 19 20 21 22 23 23 23 23 23 23 23 23 23 23 23 23	VUB P W/L W/L W/B W/B W/B W/B V/B C V/B V/B V/B V/B V/B V/B V/B V/B	TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS
31G BR/ 31G P 31G P 31G P 31G P 31G P 32G P 33G P 100	TO MAIN HARNESS TO MAIN HARNESS - (WITH CUMMINS Saless - (WITH CUMMINS Saless) TO MAIN HARNESS - (WITH WAIN HARNESS TO MAIN HARNESS - (WITH CUMMINS S.GU) TO MAIN HARNESS - (WITH COMAIN S.GU) TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	78G 79G 81G 81G 81G 83G 83G 83G 88G 88G 88G 88G 89G 89G 91G 93G 93G 93G 93G 93G 93G 93G 93G 93G 93	WB % % % % % % % % % % % % % % % % % % %	TO MAIN HARNESS TIO MAIN HARNESS TO MAIN HARNESS	16 17 19 20 21 23 23 23 23 26 23 26 23 26 23 26 27 26 27 26 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20	L/B W/I W/I W/B W/B W/B V/R V/R V/R V/R V/R V/R	TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS
31G P 31G 31G 31G 31G 32G P 32G 34G 36G 38G 36G 43G 36G 44G 36G 88 36G 88 36G 88 36G 88 36G <	TO MAIN HARNESS - WITH TO MAIN HARNESS - WITH TO MAIN HARNESS - WITH WARNESS - WITH WARNESS - TO MAIN HARNESS TO MAIN HARNESS - WITH CALMMINS 6420 TO MAIN HARNESS - WITH MAIN HARNESS - WITH TO MAIN HARNESS - TO MAIN	79G 81G 81C 82C 82C 82C 82G 86G 94G 86G 94G 94G 94G 94G 94G 94G 94G 94G 94G 94	WB & C C C C C C C C C C C C C C C C C C	TO MAINI HARNESS TO MAINI HARNESS	17 19 20 21 22 22 23 26 28 26 28 26 28 28 28 28 26 28 28 28 28 28 28 28 28 28 28 20 00 10 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 2		TO ROOM LAMP HARKESS TO ROOM LAMP HARKESS
31G P 20000000 33G P 20000000 33G P 20000000 33G P 20000000 35G P 200000000 35G P 20000000 140 P 2000 P P	TO MAIN HARNESS - WITH VICSOD) TO MAIN HARNESS TO MAIN HARNESS - WITH OLIMINIS GOUD TO MAIN HARNESS - WITH TO MAIN HARNESS	80G 82G 82G 82G 82G 86G 86G 86G 86G 86G 86G 86G 86G 86G 86	WB % % % % % % % % % % % % % % % % % % %	TO MAIN HARNESS TO MAIN HARNESS	18 20 21 22 23 23 26 28 28 28 28 28 28 28 28 28 28 28 28 28	P P W/L	TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS
Image: Second	VK650D) TO MAIN HARNESS TO MAIN HARNESS	82.0 82.0 84.0 84.0 86.0 86.0 86.0 86.0 96.0 90.0 94.0 94.0 94.0 94.0 94.0 94.0 94	WB %	10 MAIN HARNESS 10 MAIN HARNESS	20 21 22 23 24 26 26 28 28 28 28 28 28 28 28 28 28 28 28 28	WB WB WB WB WB WB WB WB WB WB	TO ROOM LANDE HARNESS TO ROOM LANDE HARNESS
(10)[20](10) 333 Y P (20)[20](10) 333 Y P (20)[20](10) 334 GR P (20)[20](10) 336 CR P (20)[20](10) 336 CR P (20)[20](10) 336 CR P (20)[20](10) 336 BR P (20)[20](10) 10 236 P (20)[20](10) 10 236 P (21)[20](10) 10 10 10 1 (21)[20](10) 10 10 1 1 (21)[20](10) 10 10 1 1 (22)[20](10) 10 10 1 1	TO MAIN HARNESS TO MAIN HARNESS	850 846 850 860 880 880 880 880 880 880 880 880 88	WB WB WB WB WB WB WB WB WB WB WB WB WB W	10 MAIN HARNESS 10 MAIN HARNESS	22 23 23 24 24 28 28 28 28 28 28 28 28 28 28 28 28 28	N. V/R G/W S/W V/V V/V V/V	TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS
333 471 334 61 334 61 335 77 335 77 335 77 335 77 335 77 335 77 335 75 335 75 335 75 335 75 335 75 335 75 335 75 335 75 335 75 335 75 335 75 335 75 335 75 335 75 335 75 335 75 345 75 445 74 445 74 445 74 445 74 445 74 445 74 445 74 455 74	TO MAIN HARNESS TO MAIN HARNESS	86.0 86.6 86.6 88.6 88.6 88.6 88.6 99.6 99.6	WB W B W B W B W C C <thc< th=""> C C C</thc<>	10 MAIN HARNESS 10 MAIN HARNESS	23 23 26 27 27 27 28 28 28 29 31 31 29 20 20 20 20 20 20 20 20 20 20 20 20 20	али	TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS
eigioigization eigioigioigization eigioigization eigioigization eigioigiz	TO MAIN HARNESS TO MAIN HARNESS - (WITH CLAMINS 6.0.) TO MAIN HARNESS - (WITH TO MAIN HARNESS - (WITH TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	86.0 86.0 88.0 88.0 88.0 98.0 99.0 99.0 99.0 99	WB WB<	10 MAIN HARNEES TO MAIN HARNEES 10 MAIN HARNEES TO MAIN HARNEES	23 24 25 25 27 27 29 30 30 30 30 30 30 30 30 30 30 30 30 20 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	T No. V/N L(G/B L(G/B L(G/B L(G/B L(G/B L(G/B L(G/B) L(G/B	TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS
(4) (4)	TO MAIN HARNESS TO MAIN HARNESS	865 876 876 876 9905 916 916 916 946 945 945 986 986	WB A C C C A C C A C C A C C A C C A C C A C C A C C C A C	10 MAIN HARNEES TO MAIN HARNEES 10 MAIN HARNEES	28 28 28 28 28 28 28 28 30 30 30 30 30 00 Connector	GAN GAN CALLER	TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS
Addition (a) Addition (a)<	TO MAIN HARNESS TO MAIN HARNESS - WITH TO MAIN HARNESS - WITH TO MAIN HARNESS - WITH TO MAIN HARNESS - WITH TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	87.0 88.6 88.6 90.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92	WB A C C C A C C A C C A C C A C C A C C A C C A C	TO MAIN HARNESS TO MAIN HARNESS	28 28 27 28 28 28 28 30 31 31 31 20 00 Connector		TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS
Americanical memory Transmission Transmission Image/Index/Inde/Index/	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS - (WITH CUMMINS 6.01) TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	880 890 900 910 930 930 930 930 930 980 980	8 8	TO MAIN HARNESS TO MAIN HARNESS	27 27 28 28 30 31 31 32 32 30 00 70 Connector		TO ROOM LANP HARNESS TO ROOM LANP HARNESS
380 BR 381 383 381 383 381 383 381 383 381 403 401 - 401 - 401 - 401 - 401 - 401 - 401 - 402 0 433 6 436 8 440 8 440 8 440 8 440 8 440 8 440 8 450 - 450 - 450 - 450 - 450 - 900 - 900 - 900 - 900 - 900 - 900 - 900 - 900 <td>TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS - WITH CUMMINS 6.0.1 TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS</td> <td>90G 91G 92G 93G 93G 94G 96G 98G 98G</td> <td>× × × × × × × × × × × × × × × × × × ×</td> <td>10 MAIN HARNESS 10 MAIN HARNESS</td> <td>27 28 30 31 32 32 30 30 30 30 30 30 30 30 30 30 30 30 30</td> <td></td> <td>TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS 10 LAMP HARNESS</td>	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS - WITH CUMMINS 6.0.1 TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	90G 91G 92G 93G 93G 94G 96G 98G 98G	× × × × × × × × × × × × × × × × × × ×	10 MAIN HARNESS 10 MAIN HARNESS	27 28 30 31 32 32 30 30 30 30 30 30 30 30 30 30 30 30 30		TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS 10 LAMP HARNESS
Marken Service 395 B Image Service 395 B Image Service 410 - Image Service 420 0 Image Service 436 B HARNESS 436 C HARNESS 476 R HARNESS 486 - HARNESS 486 C HARNESS 486 C HARNESS 486 C HARNESS 486 C Markess 486 C Markess 996 - Markess 916 M Markess 916 C Markess 916 C Markes 916 C Markes 916 C C Markes 916 C C Markes 916 C C	TO MAIN HARNESS TO MAIN HARNESS	905 905 916 916 946 946 946 946 986 986	× ≈ ∞ ∞ 88 × ∞ ∞ ∞	10 MAIN HARNESS 10 MAIN HARNESS	29 29 30 32 32 Connector	A R R R R R R R R R R R R R R R R R R R	10 FOROM LANDE HARNESS TO ROOM LANDE HARNESS A3 A3 A3 A3 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4
Productional 400 - Image: state s	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS - WITH CUMMINS 5.0.1 WCGVD) TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	90G 92G 92G 92G 92G 92G 92G 97G 97G 97G		10 MAIN HARNESS TO MAIN HARNESS	28 29 30 31 32 32 32 Connector	A/R G/W Y/V Y/V	10 ROOM LAMP HARKESS TO ROOM LAMP HARKESS TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS USE BLOCK (J/B)
Handle Handle<	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS - (WITH CAUNMINS 5.0.1) TO MAIN HARNESS - (WITH VG600) TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	91G 92G 94G 95G 95G 95G 96G 996	₩ × © © BH ×	TO MAIN HARNESS TO MAIN HARNESS	29 30 31 32 32 22 Connector	G/R G/W Y/V Y/V	TO ROOM LAMP HARKESS TO ROOM LAMP HARKESS TO ROOM LAMP HARKESS TO ROOM LAMP HARKESS 13 10 USE BLOCK (J/B)
100 sec 42G 0 100 sec 43G B 43G B 43G B 43G F 43G B 43G F 44G PY 44G F 46G L 446 F 46G L 446 F 46G F 446 F 46G L 440 F 76G F 440 F 46G L 440 F 76G F 46G V 90G B MUSSS-WITH F 50G W MUSSS-WITH F 50G W MUSSCU 54G W 54G G	TO MAIN HARNESS TO MAIN HARNESS - WITH CUMMINS 6401 TO MAIN HARNESS - (WITH WIGHOUTH ANN HARNESS TO MAIN HARNESS TO MAIN HARNESS	92G 93G 94G 95G 95G 97G 98G 98G	WB A C C MA	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	30 31 32 Connector Connector	LG/B Y/V Y/V	TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS 13 13 13 10 10 10 10 10 10 10 10 10 10 10 10 10
43G B 43G B 43G C 1 HARNES 1 HARNESS 46G LG 46G LG 46G C 46G B 1 46G 46G C 46G B 50G B 50G W 56G G 46G G	TO MAIN HARNESS - (WITH CUMMINIS 5.0.1) TO MAIN HARNESS - (WITH WG6VD) TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	933 94G 95G 96G 97G 986	× × v	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	31 32 Connector Connector	YV VV	TO ROOM LAMP HARNESS TO ROOM LAMP HARNESS 13 USE BLOCK (J/B)
436 4 I Name 446 R/V 446 R/V 4 HARNESS 476 R HARNESS 476 R HARNESS 476 R HARNESS 476 R HARNESS 476 L South 900 R MARNESS 500 R South 500 R Misses. (WTH 526 L Misses.(WTH 536 W Misses.(WTH 556 G	TO MAIN HARNES - CUMINH 2 GUJ NCGOVOJ VCGOVOJ TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	94G 95G 95G 97G 93G	α α α α α	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	32 Connector Connector	YN VN	TO ROOM LAMP HARNESS A3 USE BLOCK (J/B)
436 6 1 Name 446 B/Y 446 B/Y 1 HARNESS 466 C 1 HARNESS 476 R 1 HARNESS 476 B 1 HARNESS 466 C 1 HARNESS 466 C 1 HARNESS 486 C 1 MARNESS 486 C 1 MARNESS 486 C 1 MARNESS 906 B 1 MARSES 916 C 1 MARSES 916 C 1 MARSES 916 M 1 MARSES 916 C	TO MAIN HARNESS - (WITH VK56VU) TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN U DUNICO	95G 96G 97G 98G 98G	ы калана M/B калана M/B	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	Connector Connector	No.	A3 USE BLOCK (J/B)
I Name 44G RY 44G RY 46G RY HARNESS 476 R 46 HARNESS 476 R 46 HARNESS 476 R 46 HARNESS 466 L 8 HARNESS 486 - 96 - RNESS 916 R 8 8 8 RNESS 916 R 8	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	96G 97G 98G 99G	м ^в 8	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	Connector	No.	13 USE BLOCK (J/B)
I Name 450 0 HARNESS 476 16 HARNESS 476 8 HARNESS 90 8 HARNESS 90 8 BNESS - WITH 526 L BNESS - WITH 526 L MIN 5.0UJ 566 W HARNESS 566 6	TO MAIN HARNESS TO MAIN HARNESS	97G 98G 99G	R W/B	TO MAIN HARNESS TO MAIN HARNESS	Connector	-	USE BLOCK (J/B)
HARNESS 465 Ld HARNESS 476 Ld HARNESS 476 R FIARNESS 476 R FIARNESS 500 BR Solo BR S20 NRESS-WITH 526 L MIN 6.50.U 556 G	TO MAIN HARNESS	98G 99G	W/B	TO MAIN HARNESS		r Name Ir	
HARNESS 473 R HARNESS 496 - HARNESS 900 BR HARNESS 500 BR HARNESS 510 R MARNESS 510 R MARNESS 510 R MARNESS 510 W MINESS., WITH 524 L MINS.SO.U) 550 W		996			- Connector	Tune	SOGEW-M2
HARNESS 48G W HARNESS 48G - 48G W HARNESS 90G B H HARNESS 91G R S1G R BNESS WITH 92G L BNESS WITH 92G L BNESS WITH 92G G HARNESS 95G G	C MAIN HARNESS	-	BR	TO MAIN HARNESS	Connoctor	v Color	
HARNESS 49G - HARNESS 60G BR HARNESS 50G BR FILHARNESS 50G BR Strates 51G R Strates 51G R Sev01 52G L Sev01 53G W NRESS 50L 54G W HARNES 55G G G	TO MAIN HARNESS	100G	GR/W	TO MAIN HARNESS	CONTRECTOR		
HARNESS 500 BR HARNESS 51G B HARNESS 61G B MARNESS 61G B Sold 876 L Sold 876 V Sold 876 V HANNESS 56G G HANNESS 56G G	TO MAIN HABNESS				E	L	
HARNESS 500 7	TO MAIN HARNESS	Connector N	lo. M1	-			
RNESS - (WITH 52G L 50G W 50G		Connector N	Ime Mi	IRE TO WIRE	H.S.		3N 2N 1N
Sourcy 53G W RNESS - (WITH 53G W RNESS - (WITH 54G W HARNESS 55G G	TO MAIN HARNESS	Connector T	TH	132FW-NH			TN EN EN IN
INS 5.0L) 54G W 54G W 55G G	TO MAIN HARNESS	Connector C	Color WF	HITE			
HARNESS 55G G	TO MAIN HARNESS				_		
	TO MAIN HARNESS	444					
HARNESS 56G W	TO MAIN HARNESS				Terminal	Color of	Signal Name
HARNESS 57G Y	TO MAIN HARNESS	0 L		No.	Wire	
HARNESS 58G BG	TO MAIN HARNESS	<u> </u>	10 15 14 13 1	12 11 10 9 8 / 6 3 4 3 20 27 26 25 24 22 22 22 20 40 4	2 1 18 17	0	IGN
HARNESS 59G BG	TO MAIN HARNESS	<u> </u>	7 67 NC 10 70	£1 07 17 77 c7 5 7 c7 07 17 07	2N	~	BATTERY
HARNESS 60G BG	TO MAIN HARNESS				3N	×	IGNITION
HARNESS 61G B	TO MAIN HARNESS				4N	>	BATTERY
HARNESS 62G W	TO MAIN HARNESS	Terminal	Color of		5N	>	BATTERY
HARNESS 63G R	TO MAIN HARNESS	No.	Wire	signal Name	6N	×	BATTERY
HARNESS 64G W/L	TO MAIN HARNESS	-	SHIELD	TO ROOM LAMP HARNESS	N	_	ACC RELAY OUT
I HARNESS 65G W/R	TO MAIN HARNESS	2	œ	TO ROOM LAMP HARNESS	8N	>	IGNITION
HABNESS	TO MAIN HARNESS	3	×	TO ROOM LAMP HARNESS			
HAPNESS 670 DO	TO MAIN HADNESS	4	BB	TO BOOM LAMP HABNESS			
HARNESS 600 D	TO MAIN HADNESS	5	GW	TO ROOM LAMP HARNESS			
		9	G/B	TO ROOM LAMP HABNESS			
	TO MAIN HARNESS	2	; a	TO ROOM LAMP HARNESS			
		60	-	TO BOOM I AMP HABNESS			
HARNESS /1G HVW	TO MAIN HAHNESS	, .	1 000		_		

NAVIGATION WITHOUT AMPLIFIER CONNECTORS

AANIA5009GB

< WIRING DIAGRAM >

Image: row marker of ma		-			-				3	'	1	
Matrix from the main from t	Canadate Name WIDE TO		47	'	-	5	8	ENG GND	26	σ	PKB SW	
Contraction (Name) Name Name <th< td=""><td>Connector Name WINE IO</td><td>WIRE</td><td>48</td><td>н</td><td>HIGH SIDE START SW LED</td><td>9</td><td>L</td><td>CAN-H</td><td>27</td><td>P/L</td><td>AS BELT SW</td></th<>	Connector Name WINE IO	WIRE	48	н	HIGH SIDE START SW LED	9	L	CAN-H	27	P/L	AS BELT SW	
Output Image: set of set o	Connector Type NS16MW	လု	49		1	2	BR	K-LINE	28	0/B	DR BELT SW	
1 1	Connector Color WHITE		50	1	1	80	G/R	IGN SW	29	1	1	
	F		51	'	1	6		1	30	1		
			52	M	AUDIO DONGLE	10		1	31	•	NOT M RANGE	
	H Č Č Č		53		1	÷	SB	M-CAN-H	32	BB	AT SHIFT UP	
 	1 2 3	4 5 6 7	54	ML	PW UART	12	æ	CAN-L	33	MN	AT SHIFT DOWN	
	8 9 10 11	12 13 14 15 16	55	W/B	L&R SENSOR K-LINE	13	_	CAN-H	34	'		
Important Important <t< td=""><td></td><td></td><td>56</td><td>1</td><td>1</td><td>14</td><td>٩</td><td>CAN-L</td><td>35</td><td>1</td><td>1</td></t<>			56	1	1	14	٩	CAN-L	35	1	1	
Time Option Signal Manue No.			57	'	1	15	-	-	36	>	ILL UP SW	
Terminal Micro Signal Manue Contraction Linearity in the contraction Linearity in the contraction Linearity L	-		28	'	1	16	٨	BATTERY	37	œ	ILL DOWN SW	
No. N	Terminal Color of S	Nichal Name	59	•	CAN-L				38	σ	8P/R OUTPUT	
1 1 0 1 0	No. Wire `		60	-	CAN-H				39	1	'	
2 6 0 monto continuents 2 6 0 monto continuents 2 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 B/W TO FRON	NT DOOR LH HARNESS	5		BEAR DEFORGER BELAV OLIT	Connector P	<u>م</u>	M24	ę			
3 1	2 G/B TO FROM	VT DOOR LH HARNESS	5	> >	STARTER RELAY OULT	Connector h	Vame C	COMBINATION METER	P			
i I	3 L TO FRON	VT DOOR LH HARNESS	i ç					МІТН ТҮРЕ А)				
	4 R TO FRON	VT DOOR LH HARNESS	64	•	RUZZER OUT	Connector 1	Type 1	TH40FW-NH	Connecte	or No.	M25	
 	5 W/R TO FROM	NT DOOR LH HARNESS	65		1	Connector (Color V	WHITE	Connecto	or Name	COMBINATION METER	
7 7	6 W/L TO FROM	VT DOOR LH HARNESS	99	8	BLOWER FAN RELAY OUT	£					(WITH TYPE A)	
0 1 0	7 V TO FRON	VT DOOR LH HARNESS	67	: c	IGN FI FC RFI AV OLIT 2	1444bh			Connecte	or Type	TH12FW-NH	
0 1/m 0	8 B TO FROM	VT DOOR LH HARNESS	89	,	MR OUTPUT	ЗН			Connecte	or Color	WHITE	
10 10 <th< td=""><td>9 L/W TOFROM</td><td>VT DOOR LH HARNESS</td><td>69</td><td>R/B</td><td>AT DEVICE OUT</td><td></td><td>2 3 4 5</td><td>6 7 8 9 10 11 12 13 14 15 16 17 18 19</td><td>920</td><td></td><td></td></th<>	9 L/W TOFROM	VT DOOR LH HARNESS	69	R/B	AT DEVICE OUT		2 3 4 5	6 7 8 9 10 11 12 13 14 15 16 17 18 19	920			
11 1W 100001000111000883 10 100001000111008833 10 10000100111008833 10 10000100111008133 10000100111008133 10000100111008133 10000100100111008133 100001001000111008133 1000010000111008133 10000100001000011100813 1000010000000000000000000000000000000	10 L/R TO FROM	NT DOOR LH HARNESS	02	•	IGN USM OUT 1	2	1 22 23 24 25	26 27 28 29 30 31 32 33 34 35 36 37 38 3	39 40 HHH			
12 1 0 FORM FOOD (H HANRESS 14 1 0 FORM FOOD (H HANRESS 14 1 0 FORM FOOD (H HANRESS 14 1 1 0 1 1 0 1	11 L/W TO FROM	VT DOOR LH HARNESS	12	0	DR REQUEST SW				S H			
13 Y To Front Doort Huddessis 14 Y To Front Doort Huddessis 15 To Front Poort Huddessis 15 To Front Huddessis 15 To Front Poort Huddessis 15 To Fron Poort Huddessis 15	12 L TO FROM	NT DOOR LH HARNESS	72	0	AS REQUEST SW				$\mathbf{\tilde{b}}$	_	46 45 44 43 42 41	
14 28 70 FONT DOOL HIMMERS IF 7 100 FONT DOOL HIMMERS IF	13 Y TO FROM	VT DOOR LH HARNESS	73	'	I	- -					52 51 50 49 48 47	
15 V TO FRONT COOR LIFIABRESS 16 Lor TO FRONT COOR LIFIABRESS 16 Lor TO FRONT COOR LIFIABRESS 16 Lor TO FRONT COOR LIFIABRESS 20mector Name EXM No Mo 20mector Name EXM No Mo Mo 20mector Name EXM No Mo Mo 20mector Name EXM No Mo Mo Mo 20mector Name EXM No Mo Mo Mo Mo 20mector Na	14 SB TO FROM	VT DOOR LH HARNESS	74	1	-	Terminal	Color of Wire	Signal Name				
16 10<	15 V TO FROM	VT DOOR LH HARNESS	75	Γ	COMBI SW OUT 5							
Image:	16 LG TO FROM	VT DOOR LH HARNESS	76	٩	COMBI SW OUT 4			GIND(STRG/SALELLITE SW GIND)	Tomino	, voloc	*	
Dimetor No. M13 78 One Cometsor OUT 2 78 One Cometsor OUT 2 78 Cometsor OUT 3 78 Cometsor OUT 3 78 Cometsor OUT 3 78 Cometsor Number 3 78 Cometsor Number 3 78 7			11		COMBI SW OUT 3	1 9				Wire	Signal Name	
Connector Name MODLEJ EXM (BODY CONTROL MODLEJ) Fair MODLEJ EXM (BODY CONTROL MODLEJ) Connector Type MODLEJ IHAOF-NIH Connector Type MODLEJ Fair MODLEJ -	Connector No. M19		78	0/B	COMBI SW OUT 2	0 4			41	3	NSI	
MODULE) MODULE) MODULE) Damector Type TH40FB-NH Damector Type TH40FB-NH Damector Type TH40FB-NH Damector Color BACK Damector Color BAC Damector Color BAC Damector Type Damector Type Damector Type Damector Type Damector Type Damector Type Damector Type Damector Name Damector Type Damector Type Dametor Color WHITE Dametor Color WHITE Dametor Color WHITE No. Wuce No. Wuce No. Wuce	Connector Name BCM (BOI	DY CONTROL	79	R/W	COMBI SW OUT 1				Ę	: •	BAT	
Onnector Type TH40FB-NH Connector Nore BLACK Connector Nore BLACK Connector Nore DATA LINK CONNECTOR Byyey Fights Byyey Fights Byyey Fights Byyey Fights Byyey Fights Byyey Fights Byyey Fights Brack Byyey Fights Byyey Fights	MODULE		80		-	n «			[‡] ¢			
Domector Color BLACK Connector Name DATA LINK CONNECTOR Domector Name DATA LINK CONNECTOR DATA LINK CONNECTOR 9 BG -	Connector Type TH40FB-N	F					>	SECLIPITY	f 1	2		
Terminal Connector Name CATALINK CONNECTOR Master Service Connector Name CATALINK CONNECTOR Master Service Connector Name Connector Nam Connector Nam Connect	Connector Color BLACK		Connector	UN No.	664	- «	, I		4	5 0	CANLI CONTOUTO	
Terminal observer Connector Name (B@BST) DAM LINK CONNECTOR (B@BST) DAM LINK CONNECTOR (B@ST) DAM CONNECTOR (B@ST) DAM CONNECTOR (B@ST) DAM CONNECTOR (B@ST) DAM CONNECTOR (B@ST) DAM CONNECTOR (BST) DAM CONNECTOR (BST) DAM CONNECTOR (BST) DAM CONNECTOR (BST)					2220		c	AS DELT OW MIC ODEN	¢ 4	- -		
Connector type BDIGFW II BI Other (a)(a)(a)(7)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)	[[] [] [] [] [] [] [] [] [] [Connector	Name	JAIA LINK CONNECTOR	» CF		TOW MODE SW	40		1-11-0	
Teminal Bipipipipion Bipipipipion Mo. Connector Color Bipipipipion Mile WITE Image Bipipipipion Bipipipion Bipipipion Bipipipion Bipipipion Bipipipion Bipipipion Bipipipion Bipipipion Bipipipion Bipipipipi Bipipipipi Bipipipipi Bipipipip			Connector	Type	3D16FW	2 7		LOW MODE SW	4		CIEL SENEOD	
(副 (() () () () () () () () ()	H.S.		Connector	Color	VHITE				¢ ¢			
Terminal No. 1 <th col<="" td=""><td>60 59 58 57 56 55 54 53 52 80 79 78 77 76 75 74 73 72</td><td>51 50 49 48 47 46 45 44 43 42 41 71 70 69 68 67 66 65 64 63 62 61</td><td>EU.</td><td></td><td></td><td>13</td><td></td><td>LED HEAD LAMP (L)</td><td>20</td><td></td><td></td></th>	<td>60 59 58 57 56 55 54 53 52 80 79 78 77 76 75 74 73 72</td> <td>51 50 49 48 47 46 45 44 43 42 41 71 70 69 68 67 66 65 64 63 62 61</td> <td>EU.</td> <td></td> <td></td> <td>13</td> <td></td> <td>LED HEAD LAMP (L)</td> <td>20</td> <td></td> <td></td>	60 59 58 57 56 55 54 53 52 80 79 78 77 76 75 74 73 72	51 50 49 48 47 46 45 44 43 42 41 71 70 69 68 67 66 65 64 63 62 61	EU.			13		LED HEAD LAMP (L)	20		
Terminal No. 15 <th cols<="" td=""><td></td><td></td><td></td><td></td><td></td><td>14</td><td>æ</td><td>ACC SW</td><td>51</td><td>P</td><td>M CAN-L</td></th>	<td></td> <td></td> <td></td> <td></td> <td></td> <td>14</td> <td>æ</td> <td>ACC SW</td> <td>51</td> <td>P</td> <td>M CAN-L</td>						14	æ	ACC SW	51	P	M CAN-L
Terminal No. Color of Wire Signal Name I I O AIR BAG 1 Vi. TRALER LIGHT CHECK RELAY 1 1 2 3<			H.S.		9 10 11 12 13 14 15 16	15	1	1	52	ß	M CAN-H	
Intimation Color of Signal Name Signal Name 17 2 2 2 41 YL TrauER Lieht CHECK RELAY 1 1 2<	Tourised Calor of			_	1 2 3 4 5 6 7 8	16	0	AIR BAG				
Text Text <th< td=""><td>No Wire S</td><td>Signal Name</td><td></td><td></td><td></td><td>17</td><td>T</td><td>I</td><td></td><td></td><td></td></th<>	No Wire S	Signal Name				17	T	I				
International mean manual mean manu mean manual mean manua mean manual mean manual mean manual mean manual mean man						18	٩	TRIP RESET SW				
42 RV CARGOLAMP OUT Terminal Color of Wire Signal Name 20 R OUTSIDE TEMP END 43 - - - - - - - 43 - - - - - - - 44 - - - - - - - 45 - - - - - - - 23 R STRG SWB - - - - -						19	1	1				
43 No. Wire Oglativatie 21 43 Wire Oglativatie 21	42 R/Y CA	ARGO LAMP OUT	Terminal	Color of	Circuit Name	20	ж	OUTSIDE TEMP GND				
44 - - - - - 22 P STRG.8V A 45 - - - - - - 23 R STR0.8V B	43 -	1	No.	Wire	olgital Natifie	21	-	-				
45 L	44 -	1	-	-	-	22	٩	STRG SW A				
	45 -	1	0		1	23	æ	STRG SW B				
3 LG M-CAN-L 24 W WSHERSW			ε	ГG	M-CAN-L	24	M	WASHER SW				

NAVIGATION WITHOUT AMPLIFIER

< WIRING DIAGRAM >

[NAVIGATION WITHOUT AMPLIFIER]

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Revision: March 2016

NAVIGATION WITHOUT AMPLIFIER CONNECTORS

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80G	81G	82G	83G	84G	85G	86G	87G	88G	89G	906	91G	92G	93G	94G	95G	906	976	966	100G																														
TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS		TO ENGINE ROOM HARNESS TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO FUCITI DOOL IN DUTION										
LG	G/B	G/B	BR∕Y	в	æ	٨L	GR	G/R	SB	RW	BR	BR	I	R/G	0	5	λ ^Η υ	, 9		M	,	BB	œ -	- >	M	σ	w	>	Bg	8 8	0	N	0	W/L	W/R	BG	0	8	۲	L	R/W	۲W	SHIELD	N	æ	R/G	BG	٩	
27G	28G	29G	30G	31G	32G	33G	34G	35G	36G	37G	38G	39G	40G	41G	42G	43G	45G	46G	47G	48G	49G	50G	51G	229	54G	55G	56G	57G	58G	509	61G	62G	63G	64G	65G	66G	67G	68G	69G	70G	71G	72G	73G	74G	75G	76G	77G	78G	
WO M21			r Type TH80FW-CS16-TM4	r Color WHITE				16 26 36 46 56	6G 7G 8G 9G 10G	The second	116 120 130 140 156 166 176 180 199 206 216	57,973,979,799,799,799,799,799,799,799	316 326 336 346 356 366 376 386 396 406 416	4264364464564666476486499506	51652653654055656657658659660616	00/000000000000000000000000000000000000	71672673674675678677678678680681G	006 0560 000 0 000000000000000000000000	91G 92G 93G 94G 95G	96G 97G 98G 99G 100G]			Color of Signal Name	G TO ENGINE ROOM HARNESS	B/R TO ENGINE ROOM HARNESS	W TO ENGINE ROOM HARNESS	BR/W TO ENGINE ROOM HARNESS	BR TO ENGINE ROOM HARNESS	R/W TO ENGINE ROOM HARNESS V TO ENGINE ROOM HARNESS	G TO FNGINE ROOM HARNESS	R TO ENGINE ROOM HARNESS	W TO ENGINE ROOM HARNESS	R/G TO ENGINE ROOM HARNESS	W/B TO ENGINE ROOM HARNESS	BR TO ENGINE ROOM HARNESS	Y/B TO ENGINE ROOM HARNESS	G/W TO ENGINE ROOM HARNESS	G TO ENGINE ROOM HARNESS	0 TO ENGINE ROOM HARNESS	G/Y TO ENGINE ROOM HARNESS	Y/V TO ENGINE ROOM HARNESS	G/Y TO ENGINE ROOM HARNESS	B/Y TO ENGINE ROOM HARNESS	G/R TO ENGINE ROOM HARNESS	Y/R TO ENGINE ROOM HARNESS	G/B TO ENGINE ROOM HARNESS	R/W TO ENGINE ROOM HARNESS	
Connector			Connector	Connector	Æ	dH H	S H	5																Terminal	10	20	36	4G	5G	99 26	98	98	10G	11G	12G	13G	14G	15G	16G	17G	18G	19G	20G	21G	22G	23G	24G	25G	
00				KU8FGY-1V	RAY									Signal Name	ASCD GND -(WITH HEATED	STEERING WHEEL)	AUDIO STRG SW REMOTE B - (WITH HEATED STEERING WHEEL)	ILL (-) - (WITHOUT HEATED	STEERING WHEEL)	AUDIO STRG SW REMOTE A - (WITH HEATED STEERING WHEEL)	ASCD SW - (WITHOUT HEATED		ASCU SW - (WITH HEALEU STEERING WHEEL)	AUDIO STRG SW REMOTE A - MITHOUT HEATED STEERING	WHEEL)	AUDIO STRG SW GND - (WITH HEATED STEERING WHEEL)	HORN SW - (WITHOUT HEATED	STEERING WHEEL)	AUDIO STRG SW GND -(WITHOUT HEATED STEERING WHEEL)	ASCD GND -(WITHOUT HEATED		WITHOUT HEATED STEERING	WHEEL)																
M NO	N 10		2 i	tor lype	tor Color GI				-				ol Color of	Wire	BN			GR	-	۵.	GΛ	20	θ	۵.		8	RW		۵	BV	c	r																	
Connect		CONTRACT		Connect	Connect	Ē		SH					Termine	No.	2		œ	80		ი	6	4	2	10		F	=		12	13	;	<u>+</u>																	

NAVIGATION WITHOUT AMPLIFIER CONNECTORS

AANIA5011GB

TO ENGINE FOOM HARNESS TO ENGINE ROOM HARNESS TO ENGINE ROOM HARNESS TO ENGINE ROOM HARNESS TO ENGINE ROOM HARNESS

< WIRING DIAGRAM >

TO ENGINE ROOM HARNESS TO ENGINE ROOM HARNESS TO ENGINE ROOM HARNESS

10 ENGINE ROOM HARNESS 10 ENGINE ROOM HARNESS

opportor No	M36		23A	٨	TO BODY NO. 2 HAHNESS	/bA	r	TO BODY NO. 2 HAHNESS
onnector No.	M30		24A	-	TO BODY NO. 2 HARNESS	77A	-	TO BODY NO. 2 HARNESS
onnector Name	WIRE TO WIRE	I	25A	'	TO BODY NO. 2 HARNESS	78A	SHIELD	TO BODY NO. 2 HARNESS
onnector Type	TH80FDGY-CS16-TM4		26A	GR	TO BODY NO. 2 HARNESS	79A	ß	TO BODY NO. 2 HARNESS
onnector Color	GRAY		27A	ГG	TO BODY NO. 2 HARNESS	80A	>	TO BODY NO. 2 HARNESS
f			28A	ГG	TO BODY NO. 2 HARNESS	81A	ш	TO BODY NO. 2 HARNESS
HH I			29A	GR	TO BODY NO. 2 HARNESS	82A	SHIELD	TO BODY NO. 2 HARNESS
E S H			30A	-	TO BODY NO. 2 HARNESS	83A	œ	TO BODY NO. 2 HARNESS
5			31A	W/R	TO BODY NO. 2 HARNESS	84A	0	TO BODY NO. 2 HARNESS
	1A 2A 3A 4A W		32A	G/R	TO BODY NO. 2 HARNESS	85A	SHIELD	TO BODY NO. 2 HARNESS
	WILL VE VID VI VID		33A	1	TO BODY NO. 2 HARNESS	86A	M	TO BODY NO. 2 HARNESS
	11A 12A 13A 14A 15A 16A 17A 18A 19A 20A 21A		34A	SHIELD	TO BODY NO. 2 HARNESS	87A	8	TO BODY NO. 2 HARNESS
	22A 23A 24A 25A 26A 27A 28A 29A 30A		35A	٩	TO BODY NO. 2 HARNESS	88A	M	TO BODY NO. 2 HARNESS
L	310 270 320 340 350 350 370 390 400 410	ſ	36A	B	TO BODY NO. 2 HARNESS	89A	SHIELD	TO BODY NO. 2 HARNESS
	428,438,444,458,468,477,488,494,504		37A	1	TO BODY NO. 2 HARNESS	90A	σ	TO BODY NO. 2 HARNESS
			38A	R/B	TO BODY NO. 2 HARNESS	91A	WL	TO BODY NO. 2 HARNESS
	51A 32A 35A 34A 33A 35A 35A 35A 35A 35A 35A 55A 57A 673 673 646 655 655 655 675 655 655 605 706][39A	G/O	TO BODY NO. 2 HARNESS	92A	BR	TO BODY NO. 2 HARNESS
			40A	>	TO BODY NO. 2 HARNESS	93A	Ż	TO BODY NO. 2 HARNESS
	71A 72A 73A 74A 75A 76A 77A 78A 79A 80A 81A		41A	SHIELD	TO BODY NO. 2 HARNESS	94A	R/L	TO BODY NO. 2 HARNESS
	824 834 844 854 864 87 8 4 864 87 8 A		42A	SHIELD	TO BODY NO. 2 HARNESS	95A	BR	TO BODY NO. 2 HARNESS
	91A 93A 93A 94A 95A		43A	œ	TO BODY NO. 2 HARNESS	96A	œ	TO BODY NO. 2 HARNESS
	96A 97A 98A 99A 100A		44A	σ	TO BODY NO. 2 HARNESS	97A	ГG	TO BODY NO. 2 HARNESS
			45A	1	TO BODY NO. 2 HARNESS	98A	BN	TO BODY NO. 2 HARNESS
1		I	46A	1	TO BODY NO. 2 HARNESS	A 66	OL	TO BODY NO. 2 HARNESS
			47A	>	TO BODY NO. 2 HARNESS	100A	BR/W	TO BODY NO. 2 HARNESS
	-		48A	R/W	TO BODY NO. 2 HARNESS			
erminal Colo	ir of Signal Name		49A	R/L	TO BODY NO. 2 HARNESS			
No.			50A	в	TO BODY NO. 2 HARNESS			
1A W	TO BODY NO. 2 HARNESS		51A	ı	TO BODY NO. 2 HARNESS			
2A LC	TO BODY NO. 2 HARNESS		52A	1	TO BODY NO. 2 HARNESS			
3A V	TO BODY NO. 2 HARNESS		53A	'	TO BODY NO. 2 HARNESS			
4A St	TO BODY NO. 2 HARNESS		54A	I	TO BODY NO. 2 HARNESS			
5A –	TO BODY NO. 2 HARNESS		55A	1	TO BODY NO. 2 HARNESS			
6A B(TO BODY NO. 2 HARNESS - (WITH CLIMATE CONTROLLED SEAT)	1	56A	ı	TO BODY NO. 2 HARNESS			
6A LC	TO BODY NO. 2 HARNESS -		5/A		TO BODY NO. 2 HAHNESS			
	(WITHOUT CLIMATE CONTROLLED SEAT)		VOS		TO BODY NO 2 HADNESS			
7A W	TO BODY NO. 2 HARNESS		60A	NV5	TO BODY NO 2 HABNESS			
8A B	TO BODY NO. 2 HARNESS		61A	-	TO BODY NO. 2 HABNESS			
9A L/I	B TO BODY NO. 2 HARNESS		62A	'	TO BODY NO. 2 HARNESS			
10A W	/ TO BODY NO. 2 HARNESS		63A	,	TO BODY NO. 2 HABNESS			
11A R	TO BODY NO. 2 HARNESS	1	64A		TO BODY NO. 2 HARNESS			
12A BF	TO BODY NO. 2 HARNESS		65A	'	TO BODY NO. 2 HABNESS			
13A G	TO BODY NO. 2 HARNESS	1	66A	,	TO BODY NO. 2 HARNESS			
14A R/	G TO BODY NO. 2 HARNESS		67A	1	TO BODY NO. 2 HARNESS			
15A 0	TO BODY NO. 2 HARNESS		68A	'	TO BODY NO. 2 HARNESS			
16A 0/	L TO BODY NO. 2 HARNESS		69A	Y/R	TO BODY NO. 2 HARNESS			
17A L	TO BODY NO. 2 HARNESS		70A	R/G	TO BODY NO. 2 HARNESS			
18A Y	TO BODY NO. 2 HARNESS		71A	1	TO BODY NO. 2 HARNESS			
19A BA	W TO BODY NO. 2 HARNESS	I	72A	M	TO BODY NO. 2 HARNESS			
20A BR.	Y TO BODY NO. 2 HARNESS		73A	σ	TO BODY NO. 2 HARNESS			
21A BC	TO BODY NO. 2 HARNESS	_	744		TO DODY NO 0110 DNIECO			
		-	(4H	~	10 BOUT NO. 2 MAHNESS			

NAVIGATION WITHOUT AMPLIFIER CONNECTORS

Revision: March 2016

2016 Titan NAM

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M75	WIRE TO WIRE	NS10MW-CS	WHITE			1 2 3 4	5 6 7 8 9 10				Cianol Nomo		TO FRONT DOOR RH HARNESS	TO FRONT DOOR RH HARNESS	TO FRONT DOOR RH HARNESS	TO FRONT DOOR RH HARNESS	TO FRONT DOOR RH HARNESS	TO FRONT DOOR RH HARNESS TO FRONT DOOR RH HARNESS	TO FRONT DOOR RH HARNESS	TO FRONT DOOR RH HARNESS	TO FRONT DOOR RH HARNESS																								
Connector No.	Connector Name	Connector Type	Connector Color			H.S.					Terminal Color of	No. Wire	1 B/W	2 B	3 M/L	4	0 W/B	7 W/R	8	9 GV	10																								
TO BODY HARNESS TO DODY HARNESS	TO BODY HAHNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HAHNESS		TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS		20	JSE BLOCK (J/B)	S16FBR-CS	ROWN			5R 4R 3R 2B 1R	4R 13R 12R 11R 10R 9R 8R				Signal Name	TAIL LAMP 2	IGNITION	BATTERY	1	BATTERY	ACCESSON		1	BATTERY	1	BATTERY	ACCESSORY	BATTERY	BATTERY	ACCESSORY						
SHIELD	5 '	,	M	σ	M	SHIELD	x .	-	8	8	- <u>-</u>	3 -	. 0	ВЛ	LВ	WL	٢		No.	Vame FL	Ivpe NS	Color BF			7D AR	16R 15R 1			•	Color of Wire	2	G/R	Y/R	1	A NO	A/5		,	M	1	BG	в	G√	~	G/R
81J	83,1	84J	85J	86.1	F18	881	198	606	619	1.00	140	146	196	F26	98J	P66	1001		Connector h	Connector I	Connector 1	Connector (NHHH	H.S.					No	E E	28	ЗR	4R	8	F F	<u></u> 8	8	10R	11R	12R	13R	14R	15R	16R
TO BODY HARNESS TO DODY HAPNESS	TO BODY HARNESS	TO BODY HAHNESS	TO PODV LAPINESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS		TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO DODY HAHNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	10 BUDY HAHNESS	TO BODY HARNESS TO RODY HARNESS	TO BODY HARNESS	10 BODY HARNESS	TO BODY HARNESS TO BODY HARNESS	TO BODY HADNESS	TO BODY HARNESS	0000														
L L	2 BS	5 97	ж	BG	>	•	H) C	2	88 ;	- e	8 -	- 1		BB	BG	٩	0	^	BR	GW		B	_	æ	N	<u>م</u>	'n	SHIELD	σ	1	R/W		SHIELU	SHIELD	×	SHIELD	B/R	Ŋ	'	-	SHIELD	œ c	SHIELD	M	:
28.1	300	31J	32J	33,1	34J	351	361	37J	381	N65	- F	42.1	43	44J	45J	46J	47J	48J	49J	50.0	102	53J	54J	55J	56J	57J	N80	80	61J	62J	63J	64.1	199 199	F29	68J	691	70N	L17	72J	73J	74.1	76.1	P0/	78.1	
M40	WIRE TO WIRE	TH80FW-CS16-TM4	WHITE			11 21 31 41 51	6J 7J 8J 9J 10J		11 12J 13J 14J 15J 16J 17J 18J 19J 20J 21J		1324 331 344 351 364 373 381 394 400 411	421 431 441 451 451 473 481 481 500	1.1 52.1 53.1 55.1 55.1 56.1 57.1 58.1 59.1 60.0 61.1		1.1 72.1 73.1 74.1 75.1 76.1 77.1 78.1 79.1 80.1 81.1	822 833 844 855 865 874 885 884 900	91J 92J 93J 94J 95J	L001 U89 U89 L79 L36				Signal Name	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS TO DODY LADNESS	TO BODY HABNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS		TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS		TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	
r No.	r Name	r Type	r Color								è		ù.								Color of	Wire	σ	RY		<u>۾</u>	- #	BB	SB	В	æ Ş	5 -	- ×	~	-	æ	σ	BB -	0	9/P		- ≥		•	
Connector	Connector	Connector	Connector			.H.S.				_											Torminol	No.	1	21	31	14	8 3	5	81	6	٩٩ ١٩	-	131	14.1	15J	16.1	L71	181	191	500	117	231	24J	25J	



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tor No. M98	tor Name AV CONTROL UNIT (WITHOUT AUDIO	tor Type TH24FW-NH	tor Color WHITE		- 32 31 30 29 28 27 28 24 23 22 21 44 43 42 41 40 39 38 37 38 35 34 33	al Color of Signal Name	Wire Jughan wante	LG M CAN2-L SR M CAN2-H	L MR OUTPUT	1	1	1		VIEW CAMERA)	1	V AUX L		L W CAMERA GND WITH REAR VIEW	CAMERA)	L CAMERA ON (WITH REAR VIEW CAMERA)	R/W COMP- (WITH REAR VIEW		H COMP+ (WITH HEAR VIEW CAMERA)	G/R IGN	LG M CAN1-L	SB M CAN1-H curren Ariv curren D	SHIELD MIC GND	R MIC VCC	W MIC SIGNAL	GR ILL (-)					
Connec	Connec	Connec	Connec	Æ	H.S	Termin	No.	2 %	8	24	25	26	72	3	29	8 7	5 6	8 8		34	35	ų	8	37	38	8 9	f 4	42	43	44					
197	V CONTROL UNIT MITHOUT AUDIO	MFLIFIER) H18FW-CS2	/HITE		2 3 4 5 6 7 8 9 1 11 12 13 14 15 16 17 18 20	Signal Name		- FR SPIH4	FR SP LH-	RR SP LH+	RR SP LH-	-	ACC	ILLE (+)	1	FR SP RH+	FR SP RH-	RR SP RH+	RR SP RH-		CAN-L	SPEED SIG	BAT	GND											
No.	Name A (V	Tvpe A	Color		19	Color of	Wire	- 1	5	ß	B∕		r -			W/B	ГB	O/L	- R		٩	σ	× (2											
Connector	Connector	Connector	Connector	E	НS	Terminal	No.	- ~	ı «	4	5	9	, α	5 6	10	Ħ	12	13	14	16	17	18	19	20											
M81	BCM (BODY CONTROL MODULE)	FEA09FW-FHA6-SA	WHILE		14/156/130144133112/131/130/128	f Signal Name	BATTERY SAVER OUT	SUPER LOCK/DOOR UNLOCK AS		DOOR UNLOCK AS/RR/RL	GND2	DOOR LOCK DR/AS/FL	ROOM LAMP CONT	BAT REAR DOOR	BAT-POWER F/L	P/W POWER SUPPLY IGN	P/W POWER SUPPLY BAT	BAT FRONT DOOR	GND1		M88		MS02FL-M2-LC	BLUE		C	> 40	2 🗙 1			f Signal Name	GND	ACC RELAY OUT	ACC SW	ваттеку
r No.	r Name	r Type	r Color			Color o Wire	R/G	FG	* >	H	8	0		> >	>	ΓC	>	>	m		r No.		r Type	10100							Color o Wire	•	-	œ	8
Connecto	Connecto	Connecto	Connecto	S H		Terminal No.	129	130	139	133	134	135	136	138	139	140	141	142	143		Connecto		Connecto	CONTRECTO	F		0				Terminal	-	2	e	a
M80	BCM (BODY CONTROL MODULE)	TH24FB-NH	BLACK		1141131121111101109108107106105 1281251241231221211201191181118	Signal Name	FR FLASHER		SHIFT LOCK SOL FNOID OLIT		-	ACC LED		ACC HELAT OUT AS DOOB ANT A	AS DOOR ANT B	ROOM ANT 2 A	FL FLASHER	1	RF NIMOCO	- DR DOOR ANT R	DR DOOR ANT A	ROOM ANT 1 A	ROOM ANT 1 B	1	IMMO START BUTTON ANT B	ROOM ANT 2 B									
No.	Name	Type	Color		116 115 128 127	Color of Wire	GΛ	- 3	- H			٩		~ >	BG	N	G/B	1	œ	· "	i a.	M	σ	'	4 ۵	8 8									
onnector	onnector	onnector	onnector	E S H		Terminal No.	105	106	108	109	110	111	112	114	115	116	117	118	119	121	122	123	124	125	126	128									



< WIRING DIAGRAM >

2016 Titan NAM

[NAVIGATION WITHOUT AMPLIFIER]

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NAVIGATION WITHOUT AMPLIFIER [NAVIGATION WITHOUT AMPLIFIER]

Revision: March 2016



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NAVIGATION WITHOUT AMPLIFIER CONNECTORS

< WIRING DIAGRAM >

Revision: March 2016

2016 Titan NAM

BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000013024609

OVERALL SEQUENCE



DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer. Verify relation between the symptom and the condition when the symptom is detected. Refer to <u>AV-144</u>, "Symptom Table".

>> GO TO 3.

3. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

Revision: March 2016

AV-108
DIAGNOSIS AND REPAIR WORKFLOW

[NAVIGATION WITHOUT AMPLIFIER]

SASIC INSPECTION >	[NAVIGATION WITHOUT AMPLIFIER]
s malfunctioning part detected?	
YES >> GO TO 4.	
NO >> GO TO 2.	
REPAIR OR REPLACE THE MALFUNCTIONING F	PART
. Repair or replace the malfunctioning part.	
. Reconnect parts or connectors disconnected durin	ng Diagnostic Procedure.
Defer to confirmed summtom in stop 2, and make sure	that the symptom is not detected
Celer to commence symptom in step 2, and make sure	that the symptom is not detected.
VES >> GO TO 2	
NO >> Inspection End.	
	-

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description

INFOID:000000013024610

BEFORE REPLACEMENT

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

NOTE:

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

AFTER REPLACEMENT

CAUTION:

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

• Complete the procedure of "After Replace ECU" in order.

• If you set incorrect "After Replace ECU", incidents might occur.

• Configuration is different for each vehicle model. Confirm configuration of each vehicle model.

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Work Procedure

INFOID:000000013024611

1.SAVING VEHICLE SPECIFICATION

-CONSULT

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

NOTE:

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

>> GO TO 2.

2.REPLACE AV CONTROL UNIT

Replace AV control unit. Refer to AV-157, "Removal and Installation".

>> GO TO 3.

3.WRITING VEHICLE SPECIFICATION

CONSULT

- 1. Enter "Re/Programming, Configuration".
- If "Before Replace ECU" operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press "Confirm" to write vehicle specification. Refer to <u>AV-111, "CONFIGURATION (AV CONTROL UNIT): Work Procedure"</u>.
- If "Before Replace ECU" operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to <u>AV-111, "CONFIGURATION (AV CONTROL UNIT): Work Procedure"</u>.

>> GO TO 4.

4.REGISTER AV CONTROL UNIT

Perform AV control unit registration. Refer to <u>AV-112</u>, "<u>REGISTRATION</u> (<u>AV CONTROL UNIT</u>) : <u>Work Proce</u><u>dure (Registration Code)</u>".

>> GO TO 5.

5.OPERATION CHECK

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

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>> Work End. CONFIGURATION (AV CONT	ROL UNIT)	A
CONFIGURATION (AV CONTR	ROL UNIT) : Description	INFOID:000000013024612 B
Vehicle specification needs to be writte	n with CONSULT because it is not written aft	er replacing AV control
unit. Configuration has three functions as foll	ows:	С
Function	Description	
"Before Replace ECU"	 Reads the vehicle configuration of current AV control Saves the read vehicle configuration. 	unit. D
"After Replace ECU"	Writes the vehicle configuration with manual selection.	
"Select Saved Data List"	Writes the vehicle configuration with saved data.	
 When replacing AV control unit, yo with CONSULT. Complete the procedure of "Select If you set incorrect "Select Saved D Configuration is different for each with the select Saved D Never perform "Select Saved Data I 	u must perform "Select Saved Data List" or Saved Data List" or "After Replace ECU" in pata List" or "After Replace ECU", incidents rehicle model. Confirm configuration of eac List" or "After Replace ECU" except for new	"After Replace ECU"Forder.Fmight occur.Fh vehicle model.GAV control unit.
CONFIGURATION (AV CONTR	ROL UNIT) : Work Procedure	INFOID:000000013024613
1. WRITING MODE SELECTION		
CONSULT Select "Reprogramming, Configuration"	of "MULTI AV".	
When writing saved data>>GO TO 2. When writing manually>>GO TO 3.		J
2.PERFORM "SAVED DATA LIST"		
CONSULT Automatically "Operation Log Selection applicable file from the "Save Data List"	" window will display if "Before Replace ECU" and press "Confirm".	was performed. Select
>> Work End.		
3. PERFORM "AFTER REPLACE ECU	" OR "MANUAL CONFIGURATION"	M
 CONSULT Select "After Replace ECU" or "Mar Identify the correct model and cor 	nual Configuration". nfiguration list. Refer to <u>AV-112. "CONFIGUR</u>	AV
 Configuration List. Confirm and/or change setting value CAUTION: 	e for each item.	0
incroughly read and understand if the setting is not correct.	the vehicle specification. ECU control may	not operate normally
4. Select "Next".		Р
Make sure to select "Next", confi figuration of brand new AV contro which is set automatically by sele 5. When "Completed", select "End".	irm each setting value and press "OK" even of unit is same as the desirable configuration ecting vehicle model can not be memorized	ι if the indicated con- ι. If not, configuration
>> GO TO 4.		

4.OPERATION CHECK

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

>> Work End.

CONFIGURATION (AV CONTROL UNIT) : Configuration List

INFOID:000000013024614

CAUTION:

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

SETTING ITEM Items Setting value		- NOTE	
CAMERA SYSTEM NONE/AVM \Leftrightarrow REAR CAMERA		NONE/AVM: With around view monitor REAR CAMERA: With rear view camera	

⇔: Items which confirm vehicle specifications

REGISTRATION (AV CONTROL UNIT)

REGISTRATION (AV CONTROL UNIT) : Description

AFTER REPLACEMENT (REGISTRATION CODE)

If the AV control unit is replaced with a new AV control unit, the new AV control unit must be registered using the registration code.

CAUTION:

If the new AV control unit registration code is not registered, the "APPS" mode will not function.

AFTER REPLACEMENT (SATELLITE RADIO REGISTRATION)

If the AV control unit is replaced with a new AV control unit and the customer has an active subscription for Satellite Radio, the new AV control unit must be registered with the updated subscription information.

REGISTRATION (AV CONTROL UNIT) : Work Procedure (Registration Code)

INFOID:000000013024616

INFOID:000000013024615

1. RECORD REGISTRATION CODE FOR REPLACEMENT AV CONTROL UNIT

1. Refer to the replacement AV control unit's label located on the top of the AV control unit.

PART NO. 7 612 051 260 Production Date: 12.2013 MISSAN PART NO. XXXXXXXX Model name:LCN2K70A00 FCC ID : YBN - LCN2K70A00 FCC ID : YBN - LCN2K70A00 This device complies with Part 15 of the FCC Rules and with RSS - 210 of industry Canada. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device may not cause harmful interference, received, Production Date: 12.2013 MISSAN PART NO. XXXXXXXX MISSAN PART NO. XXXXXXXXX Model name:LCN2K70A00 FCC ID : YBN - LCN2K70A00 FCC ID : YBN - LCN2K70A0 FCC ID : YBN - LCN2K70A0 FCC ID : YBN	Manufactured by: BOSCH	₩₩ ×××
(2) this device must accept any interference received,	PART NO. 7 612 051 260 Production Date: 12.2013 Production Date: 12.2013 NISSAN PART NO. XXXXXXXXXX Model name:LCN2K70A00 DN: MH: 009 HW: 031 SW: D007 Index: C Complies with 21 CF 1040.1 Complies with 21 CF 1040.1	Mounting Screws ISO M5x8 max. R 1040. 10 and FR Chapter 1, ter J E RADIO

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

[NAVIGATION WITHOUT AMPLIFIER]

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2. Create a registration code to supply to NISSAN Owner Services by combining the last 9 digits of the NIS-SAN PART NO. (1) and the first 7 digits of the bar code number (2).



3. Record the registration code.

	>> GO TO 2.	Η
2.	REGISTER REPLACEMENT AV CONTROL UNIT	
Re	gister the replacement AV control unit by contacting NISSAN Owner Services. Refer to TSB.	
	>> GO TO 3.	
3.	OPERATION CHECK	J
Ver	ify that the AV control unit "APPS" function operates normally.	
	>> Work End.	K
RE tior	GISTRATION (AV CONTROL UNIT) : Work Procedure (Satellite Radio Registra- n)	L
Cor con	ntact SiriusXM Dealer Support at 1-800-852-9696 to confirm the subscription is active. If the subscription is firmed, perform the following procedure:	Μ
1.	Park the vehicle outside.	AV
2.	Turn ignition ON.	
3.	Turn the radio ON and tune to channel "O" on the XM source.	0
4.	Write down the 8-digit SiriusXM Radio ID displayed on the screen.	Р
5.	Tune to channel "1" on the XM source and leave the radio ON.	
6.	If activating NavTraffic and/or NavWeather/Travel Link Weather, press the APPS button and select Traffic Info or Weather Info to display the respective screen.	

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[NAVIGATION WITHOUT AMPLIFIER]

- 7. Activate service at www.siriusxm.com/refresh or by calling SiriusXM Dealer Support at 1-800-852-9696.
- 8. The service should be activated within 30 minutes.
- For satellite radio, audio will broadcast when tuned to channels other than "1".
- For satellite traffic and/or weather, traffic/weather information will display on the Traffic Info/Weather Info screen, or the screen will indicate the system is active.
- 9. Turn ignition OFF and wait 5 minutes.
 - NOTE:

Do not disconnect the battery or pull any fuses during this time.

- 10. Turn ignition ON.
- 11. Check that the activated service is operational.

DTC/CIRCUIT DIAGNOSIS U1000 CAN COMM CIRCUIT

DTC Description

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AV

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INFOID:000000013024617

[NAVIGATION WITHOUT AMPLIFIER]

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-70, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart".

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
		Diagnosis condition	When ignition switch is ON.	
111000	CAN COMM CIRCUIT	Signal (terminal)	—	G
01000	(CAN COMM CIRCUIT)	Threshold	—	
		Diagnosis delay time	_	Н

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U1000 detected?

- YES >> Proceed to <u>AV-115</u>, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43. "Intermittent Incident".

NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

1.PERFORM SELF DIAGNOSTIC RESULT

CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "MULTI AV".
- 4. Check DTC.

Is DTC U1000 detected?

- YES >> Refer to LAN-51. "Trouble Diagnosis Flow Chart".
- NO >> Refer to <u>GI-43, "Intermittent Incident"</u>.

INFOID:000000013024618

U1010 CONTROL UNIT (CAN)

DTC Description

INFOID:000000013024619

[NAVIGATION WITHOUT AMPLIFIER]

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-70, "CAN COMMUNICATION SYSTEM : CAN Communica-</u> tion Signal Chart".

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
		Diagnosis condition	When ignition switch is ON.	
U1010 CONTROL UNIT(CAN) [Control unit(CAN)]	CONTROL UNIT(CAN)	Signal (terminal)	—	
	Threshold	—		
		Diagnosis delay time	—	

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U1010 detected?

- YES >> Proceed to AV-116, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013220000

1.PERFORM SELF DIAGNOSTIC RESULT

CONSULT

- 1. Turn ignition switch ON.
- Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "MULTI AV".
- Check DTC.
- Is DTC U1010 detected?
- YES >> Replace the AV control unit. Refer to AV-157, "Removal and Installation".
- NO >> Refer to <u>GI-43</u>, "Intermittent Incident".

U1217 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

U1217 AV CONTROL UNIT

DTC Description

Revision: March 2016

INFOID:000000013024620

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DTC No.	C No. CONSULT screen terms (Trouble diagnosis content) DTC detection condition		DTC detection condition		
		Diagnosis condition	When ignition switch is ON.		
		Signal (terminal)	_		
U1217	(Bluetooth module)	Threshold	Communication error to Bluetooth sub mo	od-	
		Diagnosis delay time	—		
AV control u FAIL-SAFE — DTC CONF	IRMATION PROCEDURE				
1.PERFOR	M DTC CONFIRMATION PRO	DCEDURE			
CONSUL 1. Turn igr 2. Select " 3. Check [F ition switch ON. Self Diagnostic Result" mode DTC.	of "MULTI AV".			
<u>Is DTC U12</u>	17 detected?				
YES >> NO-1 >> NO-2 >>	Proceed to <u>AV-117, "Diagnosi:</u> To check malfunction symptor Confirmation after repair: Insp	<u>s Procedure"</u> . n before repair: Refer to ection End.	GI-43. "Intermittent Incident".		
Diagnosis	Procedure		INECID-0000000132	220001	
<u>Diagnooid</u>			W 012.0000000122	120007	
1.PERFOR	M SELF DIAGNOSTIC RESU	LT			
CONSUL 1. Turn igr 2. Erase D	Г ition switch ON. TC.				
 Select " Check E 	Self Diagnostic Result" mode o	of "MULTI AV".			
<u>Is DTC U12</u> YES >> NO >>	<u>17 detected?</u> Replace the AV control unit. R Refer to <u>GI-43, "Intermittent Ir</u>	Refer to <u>AV-157, "Remov</u> ncident".	al and Installation".		

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U1229 AV CONTROL UNIT

DTC Description

INFOID:000000013024621

[NAVIGATION WITHOUT AMPLIFIER]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
		Diagnosis condition	When ignition switch is ON.	
U1229 iPod CERTIFIC (iPod certificati		Signal (terminal)	—	
	(iPod certification)	Threshold	Communication error to iPod authentication chip	
		Diagnosis delay time	—	

POSSIBLE CAUSE

AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U1229 detected?

- YES >> Proceed to <u>AV-118, "Diagnosis Procedure"</u>.
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013220002

1.PERFORM SELF DIAGNOSTIC RESULT

CONSULT

- Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "MULTI AV".
- 4. Check DTC.

Is DTC U1229 detected?

- YES >> Replace the AV control unit. Refer to <u>AV-157</u>, "Removal and Installation".
- NO >> Refer to <u>GI-43</u>, "Intermittent Incident".

U1244 GPS ANTENNA

DTC Description

[NAVIGATION WITHOUT AMPLIFIER]

INFOID:000000013024623

А

DTC No.	CONSULT screen terms (Trouble diagnosis content)		DTC	detection cor	dition
		Diagnosis co	ndition	When igni	tion switch is ON.
	GPS ANTENNA CONN	Signal (termi	nal)	_	
U1244	(GPS antenna conn)	Threshold		GPS ante	nna disconnected or short circuit
		Diagnosis de	lay time	_	
POSSIBLE GPS anter GPS anter AV control AIL-SAFE	CAUSE ina disconnected ina signal circuit open or sho ina unit IRMATION PROCEDURE	rt to ground			
1. PERFOR	M DTC CONFIRMATION PR	OCEDURE			
1. Turn ign 2. Select "S 3. Check D <u>Is DTC U124</u> YES >>1 NO-1 >> NO-2 >>0	ition switch ON. Self Diagnostic Result" mode)TC. <u>14 detected?</u> Proceed to <u>AV-119, "Diagnos</u> To check malfunction sympto Confirmation after repair: Insp	of "MULTI A <u>is Procedure</u> m before rep pection End.	/". air: Refer to <u>GI-4</u> :	3, "Intermit	ttent Incident".
Diagnosis	Procedure				INFOID:000000013024624
Regarding W	/iring Diagram information, re	fer to <u>AV-94,</u>	"Wiring Diagram	<u>"</u> .	
1. GPS ANT	ENNA INSPECTION				
Visually insp	ect the GPS antenna and ant	tenna feeder.	Refer to <u>AV-163</u> ,	"Remova	and Installation".
YES >> NO >>	<u>resuit normal?</u> GO TO 2. Repair or replace malfunctior	ing compone	ents.		
2. CHECK <i>A</i>	V CONTROL UNIT VOLTAG	E			
1. Turn ign 2. Check v	ition switch ON. oltage between AV control ur	it connector	M151 terminal 58	and grou	nd.
	AV control unit				
Cor	nector Term	inal	Ground		(Approx.)

Is inspection result normal?

>> Replace GPS antenna. Refer to AV-163, "Removal and Installation". YES

NO >> Replace AV control unit. Refer to AV-157, "Removal and Installation".

U1258 SATELLITE RADIO ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

U1258 SATELLITE RADIO ANTENNA

DTC Description

INFOID:000000013024625

[NAVIGATION WITHOUT AMPLIFIER]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
		Diagnosis condition	When ignition switch is ON.	
U1258 XM AN (XM ar		Signal (terminal)	—	
	(XM antenna conn)	Threshold	Satellite antenna disconnected or short cir- cuit	
		Diagnosis delay time	—	

POSSIBLE CAUSE

- Satellite antenna disconnected
- · Satellite antenna signal circuit open or short to ground
- Satellite antenna
- AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U1258 detected?

YES >> Proceed to AV-120, "Diagnosis Procedure".

- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013024626

Regarding Wiring Diagram information, refer to AV-94, "Wiring Diagram".

1.SATELLITE ANTENNA INSPECTION

Visually inspect the satellite antenna and antenna feeder. Refer to <u>AV-81, "Antenna and Antenna Feeder"</u>. <u>Is inspection result normal?</u>

YES >> GO TO 2.

NO >> Repair or replace malfunctioning components.

2.CHECK SATELLITE ANTENNA FEEDER CONTINUITY

1. Turn ignition switch OFF.

2. Disconnect AV control unit connector M147 and satellite radio antenna connector R109.

3. Check continuity between AV control unit connector M147 and satellite radio antenna connector R109.

AV control unit		Satellite radio antenna		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M147	56	R109	1	Yes	

4. Check continuity between AV control unit connector M147 and ground.

4950 GATELLITE DADIO ANTENNA . .

AV con Connector		Orecured	
	Torminal	Ground	Continuity
N/147	56	_	No
the inspection result norn	nal?		NO
ES >> GO TO 3. O >> Repair or replace CHECK AV CONTROL L Connect AV control unit Turn ignition switch ON Check voltage between	ce harness or connectors. JNIT VOLTAGE t connector M147 and sate	llite radio antenna connecto	r R109.
Connector	Terminal	Ground	voltage (Approx.)
M147	56		5.0 V

U1263 USB

DTC Description

INFOID:000000013024627

[NAVIGATION WITHOUT AMPLIFIER]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition
		Diagnosis condition	When ignition switch is ON.
	USB OVERCURRENT (USB overcurrent)	Signal (terminal)	
U1263		Threshold	USB power supply excess maximum cur- rent
		Diagnosis delay time	—

POSSIBLE CAUSE

- Device connected to USB interface
- USB interface harness
- AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. If there is a device connected to the USB interface, disconnect it.
- 2. Turn ignition switch ON.
- 3. Select "Self Diagnostic Result" mode of "MULTI AV".
- 4. Check DTC.

Is DTC U1263 detected?

YES >> Proceed to <u>AV-122, "Diagnosis Procedure"</u>.

- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013024628

1.CHECK USB INTERFACE HARNESS

Visually inspect USB interface harness. Refer to <u>AV-158, "Removal and Installation"</u>.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Replace USB interface harness. Refer to <u>AV-158, "Removal and Installation"</u>.

2. CHECK USB INTERFACE HARNESS

Check USB interface harness circuits. Refer to AV-142, "Diagnosis Procedure".

Is the inspection result normal?

- YES >> Replace AV control unit. Refer to <u>AV-157, "Removal and Installation"</u>.
- NO >> Replace USB interface harness. Refer to <u>AV-158, "Removal and Installation"</u>.

U12AA CONFIGURATION ERROR

< DTC/CIRCUIT DIAGNOSIS >

U12AA CONFIGURATION ERROR

DTC Description

0.0000				NV 012.000000013024031
DTC DETE	CTION LOGIC			
DTC No.	CONSULT screen terms (Trouble diagnosis content)	D	TC detection condition	
		Diagnosis condition	When ignition switch is ON	J.
L112AA	Configuration Error	Signal (terminal)	—	
01244	(Configuration Error)	Threshold	Incomplete Configuration	
		Diagnosis delay time	—	
POSSIBLE • AV control • AV control	CAUSE unit configuration unit			
FAIL-SAFE —				
DTC CONF 1.PERFOR	FIRMATION PROCEDURE	OCEDURE		
CONSUL 1. Turn igr 2. Select " 3. Check [T nition switch ON. Self Diagnostic Result" mode DTC.	of "MULTI AV".		
<u>Is DTC U12</u>	AA detected?			
YES >> NO-1 >> NO-2 >>	Proceed to <u>AV-123, "Diagnos</u> To check malfunction sympto Confirmation after repair: Insp	<u>is Procedure"</u> . m before repair: Refer to <u>G</u> pection End.	I-43. "Intermittent Incident"	
Diagnosis	s Procedure			INFOID:000000013024632
1.PERFOR	RM CONFIGURATION			

(P)CONSULT

ooduro"			
<u>cedure</u> .			

2. Turn ignition switch ON.

3. Select "Self Diagnostic Result" mode of "MULTI AV".

4. Check DTC.

Is DTC U12AA detected?

YES >> Replace the AV control unit. Refer to AV-157, "Removal and Installation".

>> Inspection End. NO

AV-123

AV

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U12AB ANTENNA

DTC Description

INFOID:000000013024633

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition
U12AB FM Antenna error (FM Antenna error)	Diagnosis condition	When ignition switch is ON.	
	FM Antenna error (FM Antenna error)	Signal (terminal)	_
		Threshold	Rod antenna disconnected or short circuit
		Diagnosis delay time	_

POSSIBLE CAUSE

- · Rod antenna disconnected
- AM/FM antenna signal open or short to ground
- Rod antenna
- AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U12AB detected?

- YES >> Proceed to AV-124, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013024634

Regarding Wiring Diagram information, refer to AV-94, "Wiring Diagram".

1.ROD ANTENNA INSPECTION

Visually inspect the rod antenna and antenna feeder. Refer to <u>AV-81. "Antenna and Antenna Feeder".</u> <u>Is inspection result normal?</u>

YES >> GO TO 2.

NO >> Repair or replace malfunctioning components.

2. CHECK AV CONTROL UNIT VOLTAGE

- 1. Turn ignition switch ON.
- 2. Check voltage between AV control unit connector M146 terminal 52 and ground.

AV control unit		Ground	Voltage
Connector	Terminal	Cround	(Approx.)
M146	52	_	5.0 V

Is inspection result normal?

YES >> Replace rod antenna. Refer to <u>AV-165, "Removal and Installation"</u>.

NO >> Replace AV control unit. Refer to AV-157. "Removal and Installation".

U12AC AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

U12AC AV CONTROL UNIT

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)		DTC detection condition	ſ
		Diagnosis condition	When ignition switch is ON.	
	Display Tomporature too High	Signal (terminal)	_	
U12AC (Display Temperature too High)		Threshold	Upper operation temperature of display ex- ceeded	[
		Diagnosis delay time	—	ſ
POSSIBLE (CAUSE			1
AV control un	lit			
FAIL-SAFE				
_				
DTC CONFI	RMATION PROCEDURE			(
1.PERFORM	M DTC CONFIRMATION PRC	CEDURE		
CONSULT1. Turn ignif2. Select "S	tion switch ON. eelf Diagnostic Result" mode c	of "MULTI AV".		ŀ
3. Check D	TC.			
VES SSE	<u>C detected?</u> Proceed to AV-125 "Diagnosis	Procedure"		
NO-1 >> T	o check malfunction symptom	before repair: Refer to g	GI-43, "Intermittent Incident".	
NO-2 >> C	Confirmation after repair: Inspe	ection End.		1
Diagnosis	Procedure		INFOID:000000013220003	
				ļ
		IТ		
	I SELF DIAGNOSTIC RESU			
	tion switch ON			
1. Turn ianii				
 Turn ignii Erase DT 	FC.	<i></i>		
 Turn ignit Erase D1 Select "S Check D 	FC. FC biagnostic Result" mode c	of "MULTI AV".		ľ
 Turn igni Erase DI Select "S Check D Is DTC U12A 	IC. ielf Diagnostic Result" mode c TC. IC detected?	of "MULTI AV".		ľ
 Turn igni Erase D1 Select "S Check D' <u>Is DTC U12A</u> YES >> F NO >> F 	FC. Self Diagnostic Result" mode of TC. <u>C detected?</u> Replace the AV control unit. Refer to <u>GI-43. "Intermittent In</u>	of "MULTI AV". efer to <u>AV-157, "Remova</u> <u>cident"</u> .	al and Installation".	ľ A

В

INFOID:000000013024635

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U12AD AV CONTROL UNIT

DTC Description

INFOID:000000013024636

[NAVIGATION WITHOUT AMPLIFIER]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition
U12AD (E	ECU Temperature too High (ECU Temperature too High)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	—
		Threshold	Upper operation temperature of AV control unit exceeded
		Diagnosis delay time	—

POSSIBLE CAUSE

AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U12AD detected?

- YES >> Proceed to AV-126, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013220004

1.PERFORM SELF DIAGNOSTIC RESULT

CONSULT

- Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "MULTI AV".
- 4. Check DTC.

Is DTC U12AD detected?

- YES >> Replace the AV control unit. Refer to <u>AV-157</u>, "Removal and Installation".
- NO >> Refer to GI-43, "Intermittent Incident".

U12AE AV CONTROL UNIT

DTC Description

INFOID:000000013024637

А

DTC No. (Trouble diagnosis content)		DTC detection condition		
		Diagnosis condition	When ignition switch is ON.	
Warning		Signal (terminal)	—	
UTZAE	(Internal Amplifier temperature	Threshold	Amplifier temperature threshold ex	xceeded
	wanning)	Diagnosis delay time	—	
POSSIBLE	CAUSE			
AV control ur	hit			
FAIL-SAFE				
	RMATION PROCEDURE			
1.PERFORM	M DTC CONFIRMATION PRO	OCEDURE		
1. Turn igni 2. Select "S 3. Check D <u>Is DTC U12A</u> YES >> F	tion switch ON. Self Diagnostic Result" mode TC. <u>E detected?</u> Proceed to <u>AV-127, "Diagnosi</u>	of "MULTI AV". <u>s Procedure"</u> .		
NO-1 >> I NO-2 >> (o check malfunction symptor Confirmation after repair: Insp	n before repair: Refer to ection End.	o <u>GI-43, "Intermittent Incident"</u> .	
Diagnosis	Procedure		INFOLDO	00000013220005
Liagiloolo				100000010220000
1.PERFORM	M SELF DIAGNOSTIC RESU	ILT		
CONSULT				
1. Turn igni 2 Frase D	tion switch ON. FC			
3. Select "S	Self Diagnostic Result" mode	of "MULTI AV".		
4. Check D	TC.			
	<u>NE UEIECIEU /</u> Poplago tha AV/ control unit. E	Pefer to $\Delta \sqrt{157}$ "Remov	val and Installation"	T
YES >> F				
YES >> F NO >> F	Refer to <u>GI-43, "Intermittent Ir</u>	<u>ncident"</u> .		
YES >> F NO >> F	Refer to <u>GI-43, "Intermittent Ir</u>	ncident".		

U12AF AV CONTROL UNIT

DTC Description

INFOID:000000013024638

[NAVIGATION WITHOUT AMPLIFIER]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition
		Diagnosis condition	When ignition switch is ON.
U12AF	CD Mechanism Temperature Warning (CD Mechanism Temperature Warning)	Signal (terminal)	_
		Threshold	Upper operation temperature of CD drive exceeded
		Diagnosis delay time	—

POSSIBLE CAUSE

AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U12AF detected?

- YES >> Proceed to AV-128, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013220006

1.PERFORM SELF DIAGNOSTIC RESULT

CONSULT

- Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "MULTI AV".
- 4. Check DTC.

Is DTC U12AF detected?

- YES >> Replace the AV control unit. Refer to <u>AV-157</u>, "Removal and Installation".
- NO >> Refer to GI-43, "Intermittent Incident".

U12B0 POWER SUPPLY VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

U12B0 POWER SUPPLY VOLTAGE

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)		DTC detection condition
		Diagnosis condition	When ignition switch is ON.
	Supply Voltage Goes below 9V >	Signal (terminal)	_
U12B0	20s (Supply Voltage Goes below 9V > 20s)	Threshold	Lower operation threshold of supply voltage exceeded
		Diagnosis delay time	—
 POSSIBLE Charging s AV control AV control 	CAUSE system malfunction unit power supply or ground c unit	ircuits	
FAIL-SAFE			
_			
DTC CONF	IRMATION PROCEDURE		
1.PERFOR	M DTC CONFIRMATION PRC	CEDURE	
2. Select 3. Check [<u>Is DTC U12]</u> YES >> NO-1 >> NO-2 >>	Self Diagnostic Result [®] mode c DTC. <u>30 detected?</u> Proceed to <u>AV-129, "Diagnosis</u> To check malfunction symptom Confirmation after repair: Inspe	ST MULTI AV S Procedure S before repair: Refer to ection End.	9 <u>GI-43, "Intermittent Incident"</u> .
Diagnosis	Procedure		INFOID:00000001302464
1.снеска	CHARGING SYSTEM		
Check the v	ehicle charging system. Refer	to CHG-23, "Work Flo	w (With EXP-800 NI or GR8-1200 NI) (with
<u>Cummins 5.</u> Is the inspec	UL) Of <u>CHG-29, Work Flow (V</u> tion result normal?	VITIOUT EXP-800 NI OF	<u>GR8-1200 NI) (with Cummins 5.0L)</u> .
YES >>	GO TO 2.		
NO >>	Repair or replace the malfunct	ioning components.	
2.CHECK	AV CONTROL UNIT POWER S	SUPPLY AND GROUN	O CIRCUITS
Perform the Procedure".	AV control unit power supply a	nd ground circuit diagn	osis procedure. Refer to <u>AV-131, "Diagnosis</u>
Is the inspec	tion result normal?	•	
YES >> NO >>	Replace the AV control unit. Re Repair or replace harness or c	efer to <u>AV-157, "Remov</u> onnectors.	val and Installation".

INFOID:000000013024639

А

В

U12B1 POWER SUPPLY VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

U12B1 POWER SUPPLY VOLTAGE

DTC Description

INFOID:000000013024641

[NAVIGATION WITHOUT AMPLIFIER]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
	Supply Voltage Goes High > 16V for 20s (Supply Voltage Goes High > 16V for 20s)	Diagnosis condition	When ignition switch is ON.	
U12B1 U12B1 Sup for 2 (Sup for 2		Signal (terminal)	—	
		Threshold	Upper operation threshold of supply voltage exceeded	
		Diagnosis delay time	_	

POSSIBLE CAUSE

- Charging system malfunction
- AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U12B1 detected?

- YES >> Proceed to <u>AV-130, "Diagnosis Procedure"</u>.
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43. "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013024642

1.CHECK CHARGING SYSTEM

Check the vehicle charging system. Refer to <u>CHG-23</u>, "Work Flow (With EXP-800 NI or <u>GR8-1200 NI</u>) (with <u>Cummins 5.0L</u>)" or <u>CHG-29</u>, "Work Flow (Without EXP-800 NI or <u>GR8-1200 NI</u>) (with <u>Cummins 5.0L</u>)".

Is the inspection result normal?

- YES >> Replace the AV control unit. Refer to <u>AV-157, "Removal and Installation"</u>.
- NO >> Repair or replace the malfunctioning components.

< DTC/CIRCUIT DIAG	POWER SUP	PPLY AND GRO	UND CIRCUIT [NAVIGATION W	ITHOUT AMPLIFIER]
POWER SUPPL	Y AND GROU	IND CIRCUIT		
Diagnosis Proced	ure			INFOID:00000001302464
Regarding Wiring Diag	ram information, refe	er to <u>AV-94, "Wiring D</u>	iagram".	
1.CHECK FUSE				
Check that the followin	g fuses are not blow	n.		
Terminal No).	Signal name		Fuse No.
7		ACC power supply		25 (5A)
19		Battery power supply		15 (20A)
37		Ignition power supply		29 (5A)
 Turn ignition switch Disconnect AV cort Check voltage between AV cont 	n OFF. htrol unit connectors I ween AV control unit rol unit	M97 and M98. connectors M97 and Ground	M98 and ground.	Voltage
Connector	Terminal			(Approx.)
M97	19		Ignition switch: OFF	
M98	37		Ignition switch: ON	Ballery vollage
Is the inspection result YES >> GO TO 3. NO >> Repair or r 3.CHECK GROUND (1. Turn ignition switch 2. Check continuity b	<u>normal?</u> replace harness or co CIRCUIT n OFF. etween AV control ur	onnectors. nit connector M97 an	d ground.	
A	V control unit		Cround	Continuity
Connector	Termin	al	Grounu	Continuity
M97	20		—	Yes
Is the inspection resultYES>> InspectionNO>> Repair or r	<u>normal?</u> End. eplace harness or co	onnectors.		

Diagnosis Procedure

INFOID:000000013024648

Regarding Wiring Diagram information, refer to AV-94, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit and speaker connectors for the following:

- Proper connection
- Damage

Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair the terminals or connectors.

2.CHECK FRONT TWEETER SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M97 and suspect front tweeter connector.

2. Check continuity between AV control unit connector M97 and suspect front tweeter connector.

AV control unit		Front tweeter		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
	2	M109 (LH)	M100 (LLI)	1	
MOZ	3		2	Voc	
W97	11	M111 (RH)	1	165	
	12		2		

3. Check continuity between AV control unit connector M97 and ground.

AV co	ntrol unit	Cround	Continuity	
Connector	Terminal	Ground		
	2			
M97	3	_	No	
WIS7	11			
	12			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3.CHECK FRONT TWEETER SIGNAL

1. Connect AV control unit connector M97 and suspect front tweeter connector.

- 2. Turn ignition switch to ACC.
- 3. Push AV control unit POWER switch.

4. Check signal between AV control unit connector M97 and ground.

AV control unit	connector M97		
(+)	(-)	Condition	Reference value
Terminal	Terminal		

FRONT TWEETER

< DTC/CIRCUIT DIAGNOSIS >

[NAVIGATION WITHOUT AMPLIFIER]

11 12 Linearcian result normal? 2 >> Replace front weet Refer to AV-152. "Removal and Installation". 3 >> Replace AV control unit. Refer to AV-152. "Removal and Installation".	2	3		
the inspection result normal? S >> Replace front tweeter. Refer to <u>AV-159</u> . " <u>Removal and Installation</u> ". O >> Replace AV control unit. Refer to <u>AV-157</u> . " <u>Removal and Installation</u> ".	11	12	Audio signal output	(V) 1 0 -1 + 2ms
 S >> Replace front live S >> Replace front live S >> Replace AV control unit. Refer to <u>AV-157. "Removal and Installation"</u>. 	the inspection result n	ormal?		SKIB3609E
O >> Replace AV control unit. Refer to <u>AV-157. "Removal and Installation"</u> .	YES >> Replace from	t tweeter. Refer to AV-159, '	'Removal and Installation".	
	NO >> Replace AV	control unit. Refer to <u>AV-157</u>	. "Removal and Installation	<u>"</u> .

FRONT DOOR SPEAKER

Diagnosis Procedure

INFOID:000000013024647

Regarding Wiring Diagram information, refer to AV-94, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit and speaker connectors for the following:

- Proper connection
- Damage

Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair the terminals or connectors.

2. CHECK FRONT DOOR SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M97 and suspect front door speaker connector.

2. Check continuity between AV control unit connector M97 and suspect front door speaker connector.

AV control unit		Front door speaker		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M97	2	D12 (LH)		1	
	3		2	Voc	
	11		1	165	
	12		2		

3. Check continuity between AV control unit connector M97 and ground.

AV co	ntrol unit	Ground	Continuity	
Connector	Terminal	Ground		
	2			
MQ7	3		No	
WIG /	11		NO	
	12			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

$\mathbf{3}.$ CHECK FRONT DOOR SPEAKER SIGNAL

1. Connect AV control unit connector M97 and suspect front door speaker connector.

- 2. Turn ignition switch to ACC.
- 3. Push AV control unit POWER switch.

4. Check signal between AV control unit connector M97 and ground.

AV control unit	connector M97		
(+) (–)		Condition	Reference value
Terminal	Terminal		

FRONT DOOR SPEAKER

[NAVIGATION WITHOUT AMPLIFIER]



< DTC/CIRCUIT DIAGNOSIS >

REAR DOOR SPEAKER

Diagnosis Procedure

INFOID:000000013024649

Regarding Wiring Diagram information, refer to AV-94, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit and speaker connectors for the following:

- Proper connection
- Damage

Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair the terminals or connectors.

2. CHECK REAR DOOR SPEAKER SIGNAL CIRCUIT CONTINUITY

1. Disconnect AV control unit connector M97 and suspect rear door speaker connector.

2. Check continuity between AV control unit connector M97 and suspect rear door speaker connector.

AV control unit		Rear door speaker		Continuity		
Connector	Terminal	Connector	Terminal	Continuity		
M97	4	D207 (LH)			1	
	5		2	Voc		
	13	D307 (RH)	1	165		
	14		2			

3. Check continuity between AV control unit connector M97 and ground.

AV co	ntrol unit	Ground	Continuity	
Connector	Terminal	Ground		
	4			
MQ7	5		No	
WIG /	13		NO	
	14			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3.CHECK REAR DOOR SPEAKER SIGNAL

1. Connect AV control unit connector M97 and suspect rear door speaker connector.

- 2. Turn ignition switch to ACC.
- 3. Push AV control unit POWER switch.

4. Check signal between AV control unit connector M97 and ground.

AV control unit connector M97			
(+)	(-)	Condition	Reference value
Terminal	Terminal		

REAR DOOR SPEAKER

[NAVIGATION WITHOUT AMPLIFIER]



< DTC/CIRCUIT DIAGNOSIS >

MICROPHONE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:000000013024651

Regarding Wiring Diagram information, refer to AV-94, "Wiring Diagram".

1. CHECK MICROPHONE SIGNAL CIRCUIT CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect AV control unit connector M98 and microphone connector R5.
- 3. Check continuity between AV control unit connector M98 and microphone connector R5.

AV cor	ntrol unit	Microphone		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	41		2	
M97	42 R5	R5	4	Yes
	43		1	

4. Check continuity between AV control unit connector M98 and ground.

AV control unit		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
M98	41		No	
	42	—		
	43			

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2. CHECK MICROPHONE VCC VOLTAGE

- 1. Connect AV control unit connector M98.
- 2. Turn ignition switch ON.
- 3. Check voltage between terminals of AV control unit connector M98.

AV control unit	Mallace	
(+)	+) (–) Vol	
Terminal	Terminal	(++)
42	41	5.0 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace AV control unit. Refer to <u>AV-157, "Removal and Installation"</u>.

${\it 3.}$ CHECK MICROPHONE SIGNAL

1. Connect microphone connector.

2. Check signal between terminals of AV control unit connector M98.

MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

AV control unit connector M98				
(+)	(–)	Condition	Reference value	
Terminal	Terminal			В
43	41	Speak into microphone.	(V) 1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	C

Is the inspection result normal?

YES >> Replace AV control unit. Refer to <u>AV-157, "Removal and Installation"</u>.

NO >> Replace microphone. Refer to <u>AV-166, "Removal and Installation"</u>.

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STEERING SWITCH

Diagnosis Procedure

INFOID:000000013024652

Regarding Wiring Diagram information, refer to AV-94, "Wiring Diagram".

1. CHECK STEERING WHEEL AUDIO CONTROL SWITCH RESISTANCE

- 1. Turn ignition switch OFF.
- 2. Disconnect combination switch connector M30.

3. Check resistance between combination switch connector terminals.

Combination swi	tch connector M88	Condition	Resistance Ω
Terminal	Terminal	Condition	(Approx.)
		Depress SOURCE switch.	1
	- 12	Depress Δ switch.	121
10		Depress $ abla$ switch.	321
		Depress 🌈 🏑 switch.	723
		Depress ENTER switch.	2023
		Depress 🗹 - switch.	1
		Depress 🗹 + switch.	121
14		Depress 🗪 switch.	321
		Depress menu right switch.	723
		Depress menu left switch.	2023

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace steering switches. Refer to <u>AV-164. "Removal and Installation"</u>.

2. CHECK HARNESS BETWEEN COMBINATION SWITCH AND COMBINATION METER

1. Disconnect combination meter connector M24 and combination switch connector M30.

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

Combinat	tion meter	Combination switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	1	M30	12	
M24	22		10	Yes
	23		14	

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

Combination meter		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
M24	1		No	
	22	—		
	23			

Is the inspection result normal?

STEERING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	Combinat	ion switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	10		16	
M30	12	M199	19	Yes
	14	17	-	
Disconnect AV co Check continuity	ontrol unit connector M between combination	198. meter connector I	M25 and AV control unit c	connector M98.
Combina	tion meter	AV	AV control unit	
Connector	Terminal	Connector	Terminal	
	51		21	
M25		M98		Yes
M25	52	M98	22	Yes
M25 Check continuity	52 between combination	M98 meter connector N	22 M25 and ground.	Yes
M25 Check continuity C Connector	52 between combination ombination meter Termina	M98 meter connector M	22 M25 and ground. Ground	Continuity
M25 Check continuity C Connector	52 between combination ombination meter Termina 51	M98 meter connector N	22 M25 and ground. Ground	Continuity
M25 Check continuity C Connector M25	52 between combination ombination meter Termina 51 52	M98 meter connector M al	22 M25 and ground. Ground	Continuity

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USB CONNECTOR

Diagnosis Procedure

INFOID:000000013024653

Regarding Wiring Diagram information, refer to AV-94, "Wiring Diagram".

1. CHECK USB INTERFACE HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect AV control unit connector M143 and USB interface connector M185.
- 3. Check continuity between AV control unit connector M143 and USB interface connector M185.

AV con	trol unit	USB interface		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	45	M185	1	
M143	47		3	
	48		4	Yes
	49		5	
	50		6	

4. Check continuity between AV control unit connector M143 and ground.

AV control unit			Continuity
Connector	Terminal	—	Continuity
M1/3	45 Ground		No
M143	48	Ground	NO

Is the inspection result normal?

YES >> Replace the USB interface. Refer to <u>AV-158</u>, "Removal and Installation".

NO >> Repair or replace harness or connectors.

AUXILIARY INPUT JACK

Regarding Wiring Diagram information, refer to AV-94, "Wiring Diagram".

1. CHECK AUX IN JACK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect AV control unit connector M98 and AUX in jack connector M104.
- 3. Check continuity between AV control unit connector M98 and AUX in jack connector M104.

AV cont	trol unit	AUX in jack		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
30		6		_	
M98	31	M104	3	Yes	
32	-	1	-		
4. Check continuity	between AV control u	nit connector M98 and	ground.		-

AV control unit			Continuity	
Connector	Terminal		Continuity	ŀ
M98	30	Ground	No	
	32			

Is the inspection result normal?

YES >> Replace the AUX in jack. Refer to <u>AV-158, "Removal and Installation"</u>.

NO >> Repair or replace harness or connectors.

INFOID:000000013024654

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SYMPTOM DIAGNOSIS MULTI AV SYSTEM

Symptom Table

RELATED TO AUDIO

INFOID:000000013024655

Symptoms	Check items	Probable malfunction location
The disk cannot be removed.	AV control unit	Malfunction in AV control unit. Refer to <u>AV-87, "On Board Diagnosis Func-</u> tion".
	No sound from all speakers.	 Speaker circuit shorted to ground. Refer to <u>AV-94. "Wiring Diagram"</u>. AV control unit power supply and ground circuits malfunction. Refer to <u>AV-131. "Diagnosis Procedure"</u>.
No sound comes out or the level of the sound is low.	Only a certain speaker (front door speaker LH, front door speaker RH, front tweeter LH, front tweeter RH, rear door speaker LH, rear door speaker RH) does not output sound.	 Poor connector connection of speaker. Sound signal circuit malfunction between AV control unit and speaker. Refer to: <u>AV-134. "Diagnosis Procedure"</u> (front door speaker). <u>AV-132. "Diagnosis Procedure"</u> (front tweeter). <u>AV-136. "Diagnosis Procedure"</u> (rear door speaker). <u>AV-136. "Diagnosis Procedure"</u> (rear door speaker). <u>Malfunction in speaker.</u> Refer to: <u>AV-160, "Removal and Installation"</u> (front door speaker). <u>AV-159, "Removal and Installation"</u> (front tweeter). <u>AV-161, "Removal and Installation"</u> (rear door speaker). <u>Malfunction in AV control unit.</u> Refer to <u>AV-87, "On Board Diagnosis Function"</u>.
MULTI AV SYSTEM

< SYMPTOM DIAGNOSIS >

[NAVIGATION WITHOUT AMPLIFIER]

Symptoms	Check items	Probable malfunction location
	Noise comes out from all speakers.	Malfunction in AV control unit. Refer to <u>AV-87, "On Board Diagnosis Func-</u> tion".
Noise is mixed with audio.	Noise comes out only from a certain speak- er (front door speaker LH, front door speak- er RH, front tweeter LH, front tweeter RH, rear door speaker LH, rear door speaker RH).	 Poor connector connection of speaker. Sound signal circuit malfunction between AV control unit and speaker. Refer to: <u>AV-134</u>, "Diagnosis Procedure" (front door speaker). <u>AV-132</u>, "Diagnosis Procedure" (front tweeter). <u>AV-136</u>, "Diagnosis Procedure" (rear door speaker). <u>AV-136</u>, "Diagnosis Procedure" (rear door speaker). Malfunction in speaker. Poor Installation of speaker (e.g. back- lash and looseness). Refer to: <u>AV-160</u>, "Removal and Installation" (front door speaker). <u>AV-161</u>, "Removal and Installation" (front tweeter). <u>AV-161</u>, "Removal and Installation" (rear door speaker). <u>Malfunction in AV control unit. Refer toAV-87, "On Board Diagnosis Function".</u>
	Noise is mixed with radio only (when the ve- hicle hits a bump or while driving over bad roads)	Poor connector connection of antenna or antenna feeder. Refer to <u>AV-81, "Antenna and Antenna</u> <u>Feeder"</u> .
No radio reception or poor reception.	 Other audio sounds are normal. Any radio station cannot be received or poor reception is caused even after mov- ing to a service area with good reception (e.g. a place with clear view and no ob- stacles generating external noises). 	Poor connector connection of antenna or antenna feeder. Refer to <u>AV-81, "Antenna and Antenna</u> <u>Feeder"</u> .
No satellite radio reception.	There is malfunction in the CONSULT self diagnosis result. Refer to <u>AV-88, "CONSULT Function"</u> .	 Malfunction in antenna, antenna feeder or AV control unit. Perform DTC diagno- sis. Refer to <u>AV-120, "Diagnosis Procedure"</u>. Poor continuity in antenna feeder. Poor connector connection of antenna or antenna feeder. Refer to <u>AV-81, "Antenna and Antenna Feeder"</u>.
	There is no malfunction in the CONSULT self diagnosis result. Refer to <u>AV-88, "CONSULT Function"</u> .	 Poor continuity in antenna feeder. Poor connector connection of antenna or antenna feeder. Loose satellite radio antenna mounting nut. Refer to <u>AV-81, "Antenna and Antenna Feeder"</u>.
Buzz/rattle sound from speaker	The majority of buzz/rattle sounds are not indicative of an issue with the speaker, usu- ally something nearby the speaker is caus- ing the buzz/rattle.	Refer to "SQUEAK AND RATTLE TROU- BLE DIAGNOSIS" in the appropriate interi- or trim section.

RELATED TO HANDS-FREE PHONE

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

MULTI AV SYSTEM

< SYMPTOM DIAGNOSIS >

check that it operates normally. It is important to determine whether the cause of the malfunction is the vehicle or the cellular phone.

Check Compatibility

- 1. Make sure the customer's Bluetooth[®] related concern is understood.
- 2. Verify the customer's concern.

NOTE:

The customer's phone may be required, depending upon their concern.

3. Write down the customer's phone brand, model and service provider. **NOTE:**

It is necessary to know the service provider. On occasion, a given phone may be on the approved list with one provider, but may not be on the approved list with other providers.

- 4. Go to "www.nissanusa.com/bluetooth/".
- a. Using the website's search engine, find out if the customer's phone is on the approved list.
- b. If the customer's phone is NOT on the approved list:

Stop diagnosis here. The customer needs to obtain a Bluetooth[®] phone that is on the approved list before any further action.

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

Symptoms	Check items	Probable malfunction location
Does not recognize cellular phone connec- tion (no connection is displayed on the dis- play 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 per- formed, however, voice between each other cannot be heard during the conver- sation. 	Malfunction in AV control unit. Replace AV control unit. Refer to <u>AV-157,</u> "Removal and Installation".
The other party's voice cannot be heard by hands-free phone.	Check the "microphone speaker" in Inspec- tion & Adjustment Mode if sound is heard.	
Originating sound is not heard by the other	Sound operation function is normal.	
party with hands-free phone communica- tion.	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to <u>AV-138</u> , "Diagnosis Procedure".
	 The voice recognition can be controlled. Steering switch's ↓ and ↓ - switch works, but ℓ √ does not work. 	Steering switch malfunction. Replace steering switch. Refer to <u>AV-164.</u> "Removal and Installation".
The system cannot be operated.	Steering switch's \mathbf{r}_{w} , \mathbf{q} + and \mathbf{q} -switches do not work.	Steering switch signal circuit malfunction. Refer to <u>AV-140, "Diagnosis Procedure"</u> .
	All steering switches do not work.	Steering switch ground circuit malfunction. Refer to <u>AV-140</u> , "Diagnosis Procedure".

RELATED TO NAVIGATION

MULTI AV SYSTEM

< SYMPTOM DIAGNOSIS >

[NAVIGATION WITHOUT AMPLIFIER]

Symptoms	Check items	Probable malfunction location	
	Navigation malfunction.	 Malfunction in SD card. Malfunction in AV control unit. Refer to<u>AV-87, "On Board Diagnosis</u> <u>Function"</u>. 	B
Navigation system is inoperative.	Steering switches malfunction.	Steering switch signal circuit malfunction. Refer to <u>AV-140, "Diagnosis Procedure"</u> .	
	Voice activated control malfunction.	Microphone signal circuit malfunction. Refer to <u>AV-138, "Diagnosis Procedure"</u> . Steering switch signal circuit malfunction. Refer to <u>AV-140, "Diagnosis Procedure"</u> .	C

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Description

INFOID:000000013024656

RELATED TO NOISE

The majority of the audio concerns are the result of outside causes (bad CD, electromagnetic interference, etc.).

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

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

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

NOTE:

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

Type of Noise and Possible Cause

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

RELATED TO HANDS-FREE PHONE

Symptom	Cause and Counter measure
Does not recognize cellular phone connection (No connection is displayed on the display at the guide).	Some Bluetooth [®] enabled cellular phones may not be recognized by the in-vehicle phone module. Refer to "RELATED TO HANDS-FREE PHONE (Check Compati- bility)" in <u>AV-144. "Symptom Table"</u> .
Cannot use hands-free phone.	 Customer will not be able to use a hands-free phone under the following conditions: The vehicle is outside of the telephone service area. The vehicle is in an area where it is difficult to receive radio waves; such as in a tunnel, in an underground parking garage, near a tall building or in a mountainous area. The cellular phone is locked to prevent it from being dialed. NOTE: While a cellular phone is connected through the Bluetooth[®] wireless connection, the battery power of the cellular phone may discharge quicker than usual. The Bluetooth[®] Hands-Free Phone System cannot charge cellular phones.

< SYMPTOM DIAGNOSIS >

[NAVIGATION WITHOUT AMPLIFIER]

С

Symptom	Cause and Counter measure	^
The other party's voice cannot be heard by hands-free phone.	When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person's voice during a call.	A
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.	B

RELATED TO NAVIGATION

Basic Operation

Symptom	Cause	Remedy
No image is shown.	Display brightness adjustment is set fully to DARK side.	Adjust the display brightness.
No guide sound is heard.	Volume control is set to OFF, MIN or MAX.	Adjust the audio guide volume.
Audio guide volume is too low or too high.	Audio guidance is not available while the vehicle is driving on a dark pink route.	System is not malfunctioning.
Screen is too dark. Motion of the image is too slow.	Temperature inside the vehicle is low.	Wait until the temperature inside the vehicle reaches the proper temperature.
Small black or bright spots appear on the screen.	Symptom peculiar to a liquid crystal display (display unit).	System is not malfunctioning.

Vehicle Mark

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Symptom	Cause	Remeay	
Map screen and BIRDVIEW™ Name of the place vary with the screen.	Some thinning of the character data is done to pre- vent the display becoming to complex. In some cases and in some locations, the display contents may differ. The same place name, street name, etc. may not be displayed every time on account of the data processing.	System is not malfunctioning.	J
Vehicle mark is not positioned cor- rectly.	Vehicle is transferred by ferry or by towing after its ignition switch is turned to OFF.	Drive the vehicle for a while in the GPS sat- ellite signal receiving condition.	K
Screen will not switch to nighttime mode after the lighting switch is turned ON.	The daytime screen is selected by the "SWITCH SCREENS" when the last time the screen dim- ming setting is done. Switching between daytime/nighttime screen may be inhibited by the automatic illumination adjust-	Perform screen dimming and select the nighttime screen by "SWITCH SCREENS".	L
	ment function.		
Map screen will not scroll in accor- dance with the vehicle travel.	Current location is not displayed.	Press "MAP" button to display the current lo- cation.	M
Vehicle mark will not be shown.	Current location is not displayed.	Press "MAP" button to display the current lo- cation.	AV
Accuracy indicator (GPS satellite mark) on the map screen stays	GPS satellite signal is intercepted because the vehicle is in or behind a building.	Move the vehicle out to an open space.	
gray.	GPS satellite signal cannot be received because an obstacle is placed on top of the instrument pan- el.	Do not place anything on top of the meter display (instrument panel).	0
	GPS satellites are not visible from current location.	Wait until GPS satellites are visible by mov- ing the vehicle.	Ρ

< SYMPTOM DIAGNOSIS >

[NAVIGATION WITHOUT AMPLIFIER]

Symptom	Cause	Remedy
Vehicle location accuracy is low.	Accuracy indicator (GPS satellite mark) on the map screen stays gray.	Current location is not determined.
	Vehicle speed setting by the vehicle speed pulse has been deviated (advanced or retarded) from the actual vehicle speed because tire chain is fit- ted or the system has been used on another vehi- cle.	Drive the vehicle for a while [for approx. 30 minutes at approx. 30 km/h (19 MPH)] and the deviation will be automatically adjusted. If advancement or retard still occur, perform the distance adjustment by CONFIRMA-TION/ADJUSTMENT mode of diagnosis function.
	Map data has error or omission. (Vehicle mark is always deviated to the same position.)	As a rule, an updated map DVD–ROM will be released once a year.

Destination, Passing Points and Menu Items Cannot be Selected/Set

Symptom	Cause	Remedy
Destination cannot be set.	Destination to be set is on an expressway.	Set the destination on an ordinary road.
Passing point is not searched when re-searching the route.	The vehicle has already passed the passing point, or the system judged so.	To include the passing points that have been passed into the route again, set the route again.
Route information will not be displayed.	Route searching has not been done.	Set the destination and perform route searching.
	Vehicle mark is not on the recommended route.	Drive on the recommended route.
	Route guide is turned OFF.	Turn route guide ON.
	Route information is not available on the dark pink route.	System is not malfunctioning.
After the route searching, no guide sign will appear as the vehicle goes near the entrance/exit to the toll road.	Vehicle mark is not on the recommended route. (On the display, only guide signs related to the rec- ommended route will be shown.)	Drive on the recommended route.
Automatic route searching is not possible.	Vehicle is driving on a highway (gray route), or no recommended route is available.	Drive on a road to be searched. Or re–search the route manually. In this case, however, the whole route will be searched.
Performed automatic detour search (or detour search). Howev- er, the result is the same as that of the previous search.	Performed search with every condition consid- ered. However, the result is the same as that of the previous search.	System is not malfunctioning.
Passing points cannot be set.	More than five passing points were set.	Passing points can be set up to five. To stop at more than five points, perform sharing in several steps.
When setting the route, the starting point cannot be selected.	The current vehicle location is always set as the starting point of a route.	System is not malfunctioning.
Some menu items cannot be se- lected.	The vehicle is being driven.	Stop the vehicle at a safe place and then operate the system.

Voice Guide

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION [NAVIGATION WITHOUT AMPLIFIER]

Symptom	Cause	Remedy	A
Voice guide will not operate.	Note: Voice guide is only available at intersections that satisfy certain conditions (indicated by \bullet on the map). Therefore, guidance may not be given even when the route on the map changes direction.	System is not malfunctioning.	B
	The vehicle is not on the recommended route.	Return to the recommended route or re- search the route.	0
	Voice guide is turned OFF.	Turn voice guide ON.	C
	Route guide is turned OFF.	Turn route guide ON.	
Voice guide does not match the ac- tual road pattern.	Voice guide may vary with the direction to which the vehicle is turned and the connection of the road to other roads.	Drive in conformity to the actual traffic rules.	D

Route Search

Symptom	Cause	Remedy
No route is shown.	No road to be searched is found around the des- tination.	Find wider road (orange road or wider) near- by and reset the destination and passing points onto it. Take care of the traveling direc- tion when there are separate up and down roads.
	Starting point and the destination are too close.	Set the destination at more distant point.
	Conditional traffic regulation (day of the week/ time of the day) is set at the area around the cur- rent location or the destination.	Turn the time-regulating search conditions OFF. Turn "Avoid regulation time" in the search conditions OFF.
Indicated route is intermittent.	In some areas, highways (gray routes) are not used for the search ^(Note) Therefore, the route to the current location or the passing points may be intermittent.	System is not malfunctioning.
When the vehicle has passed the recommended route, it is deleted from the screen.	A recommended route is controlled by each sec- tion. When the vehicle has passed the passing point 1, then the map data from the starting point up to the passing point 1 will be deleted. (The data may remain undeleted in some area.)	System is not malfunctioning.
Detouring route is recommended.	In some areas, highways (gray routes) are not used for the search. (Note). Therefore, detour route may be recommended.	Set the route closer to the basic route (gray route).
	A detour route may be shown when some traffic regulation (one-way traffic, etc.) is set at the area around the starting point or the destination.	Slightly move the starting point or the destina- tion, or set the passing point on the route of your choice.
	In the area where highways (gray routes) are used for the search, left turn has priority around the current location and the destination (passing points). For this reason, the recommended route may be detouring.	System is not malfunctioning.
Landmarks on the map do not match the actual ones.	This can happen due to omission or error in the map data.	As a rule, an updated map DVD-ROM will be released once a year. Wait until the latest map has become available.
Recommended route is far from the starting point, passing points, and destination.	Starting point, passing points, and destination of the route guide were set far from the desired points because route searching data around these area were not stored.	Reset the destination onto the road nearby. If this road is one of the highways (gray routes), an ordinary road nearby may be displayed as the recommended route.

NOTE:

Except for the ordinance-designated cities. (Malfunctioning areas may be changed in the updated map disc.)

Examples of Current-Location Mark Displacement

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< SYMPTOM DIAGNOSIS >

[NAVIGATION WITHOUT AMPLIFIER]

Vehicle's travel amount is calculated by reading its travel distance and turning angle. Therefore, if the vehicle is driven in the following manner, an error will occur in the vehicle's current location display. If correct location has not been restored after driving the vehicle for a while, perform location correction.



< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

[NAVIGATION WITHOUT AMPLIFIER]

Cause (condition) -: While driving ooo: Display		Driving condition	Remarks (correction, etc.)	А	
	Y-intersections		At a Y intersection or similar gradual divi- sion of roads, an error in the direction of travel deduced by the sensor may result in the current-location mark appearing on the wrong road.		B
	Spiral roads		When driving on a large, continuous spiral		D
		ELK0193D	road (such as loop bridge), turning angle error is accumulated and the vehicle mark may deviate from the correct location.		E
	Straight roads		When driving on a long straight road and		F
			slow curve without stopping, map-matching does not work effectively enough and dis- tance errors may accumulate. As a result, the vehicle mark may deviate from the cor- rect location when the vehicle is turned at a corner.	a If after travelling about 10 km (6 miles) the correct location has not been restored, perform lo- cation correction and, if neces- sary, direction correction.	G
Road config- uration	Zigzag roads	ELK0194D			
uration		ELK0195D	When driving on a zigzag road, the map may be matched to other roads in the simi- lar direction nearby at every turn, and the vehicle mark may deviate from the correct location.		l J
	Roads laid out in a grid	pattern			Κ
		ELK0196D	When driving where roads are laid out in a grid pattern, or where many roads are run- ning in the similar direction nearby, the map may be matched to them by mistake and the vehicle mark may deviate from the cor- rect location.		L
	Parallel roads				IVI
			When two roads are running in parallel (such as highway and sideway), the map may be matched to the other road by mis- take and the vehicle mark may deviate from the correct location.		AV
		ELK0197D			0

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< SYMPTOM DIAGNOSIS >

[NAVIGATION WITHOUT AMPLIFIER]

Cause (con	dition) –: While driving ooo: Display	Driving condition	Remarks (correction, etc.)
Place	In a parking lot Parking lot SEL709V	When driving in a parking lot, or other loca- tion where there are no roads on the map, matching may place the vehicle mark on a nearby road. When the vehicle returns to the road, the vehicle mark may have devi- ated from the correct location. When driving in circle or turning the steer- ing wheel repeatedly, direction errors accu- mulate, and the vehicle mark may deviate from the correct location.	
	Turntable	When the ignition switch is OFF, the navi- gation system cannot get the signal from the gyroscope (angular speed sensor). Therefore, the displayed direction may be wrong and the correct road may not be eas- ily returned to after rotating the vehicle on a turntable with the ignition OFF.	
	Slippery roads	On snow, wet roads, gravel, or other roads where tires may slip easily, accumulated mileage errors may cause the vehicle mark to deviate from the correct road.	If after travelling about 10 km (6 miles) the correct location has
	Slopes	When parking in sloped garages, when travelling on banked roads, or in other cas- es where the vehicle turns when tilted, an error in the turning angle will occur, and the vehicle mark may deviate from the road.	not been restored, perform lo- cation correction and, if neces- sary, direction correction.
	Road not displayed on the map screen	When driving on new roads or other roads not displayed on the map screen, map matching does not function correctly and matches the location to a nearby road. When the vehicle returns to a road which is on the map, the vehicle mark may deviate from the correct road.	
Map data	Different road pattern (Changed due to repair)	If the road pattern stored in the map data and the actual road pattern are different, map matching does not function correctly and matches the location to a nearby road. The vehicle mark may deviate from the cor- rect road.	
Vehicle	Use of tire chains	When tire chains are used, the mileage is not correctly detected, and the vehicle mark may deviate from the correct road.	Drive the vehicle for a while. If the distance still deviates, ad- just it by using the distance ad- justment function. (If the tire chain is removed, recover the original value.)

< SYMPTOM DIAGNOSIS >

[NAVIGATION WITHOUT AMPLIFIER]

Cause (con	dition) –: While driving ooo: Display	Driving condition	Remarks (correction, etc.)	^
Precautions for driving	Just after the engine is started	If the vehicle is driven just after the engine is started when the gyroscope (angular speed sensor) correction is not completed, the vehicle can lose its direction and may have deviated from the correct location.	Wait for a short while before driving after starting the engine.	B
	Continuous driving without stopping	When driving long distances without stop- ping, direction errors may accumulate, and the current-location mark may deviate from the correct road.	Stop and adjust the orientation.	С
	Abusive driving	Spinning the wheels or engaging in other kinds of abusive driving may result in the system being unable perform correct detec- tion, and may cause the vehicle mark to de- viate from the correct road.	If after travelling about 10 km (6 miles) the correct location has not been restored, perform lo- cation correction and, if neces- sary, direction correction.	D
How to cor-	Position correction accuracy Within 1 mm (0.04 in)	If the accuracy of location settings is poor, accuracy may be reduced when the correct road cannot be found, particularly in places where there are many roads.	Enter in the road displayed on the screen with an accuracy of approx. 1mm. Caution: Whenever possible, use detailed map for the correc- tion.	F
rect location	Direction when location is corrected Direction calibration adjustment SEL702V	If the accuracy of location settings during correction is poor, accuracy may be re- duced afterwards.	Perform direction correction.	H

Location Correction by Map-Matching is Slow

- The map-matching function needs to refer to the data of the surrounding area. It is necessary to drive some distance for the function to work.
- Because map-matching operates on this principle, when there are many roads running in similar directions in the surrounding area, no matching determination may be made. The location may not be corrected until some special feature is found.

Name of Road is Not Displayed

The current road name may not be displayed if there are no road names displayed on the map screen.

Contents of Display Differ for Birdview[™] and the (Flat) Map Screen

Difference of the BIRDVIEW[™] screen from the flat map screen are as follows.

- The current place name displays names which are primarily in the direction of vehicle travel.
- The amount of time before the vehicle travel or turn angle is updated on the screen is longer than for the (flat) map display.
- The conditions for display of place names, roads, and other data are different for nearby areas and for more distant areas.
- Some thinning of the character data is done to prevent the display becoming too complex. In some cases and in some locations, the display contents may differ.
- The same place name, street name, etc. may be displayed multiple times.

Vehicle Mark Shows a Position Which is Completely Wrong

In the following cases, the vehicle mark may appear on completely different position in the map depending on the GPS satellite signal receiving conditions. In this case, perform location correction and direction correction.

- When location correction has not been done
- If the receiving conditions of the GPS satellite signal is poor, if the vehicle mark becomes out of place, it may move to a completely different location and not come back if location correction is not done. The position will be corrected if the GPS signal can be received.
- When the vehicle has traveled by ferry, or when the vehicle has been being towed

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< SYMPTOM DIAGNOSIS >

[NAVIGATION WITHOUT AMPLIFIER]

- Because calculation of the current location cannot be done when traveling with the ignition off, for example when traveling by ferry or when being towed, the location before travel is displayed. If the precise location can be detected with GPS, the location will be corrected.

Vehicle Mark Jumps

In the following cases, the vehicle mark may appear to jump as a result of automatic correction of the current location.

- When map matching has been done
- If the current location and the vehicle mark are different when map matching is done, the vehicle mark may seem to jump. At this time, the location may be "corrected" to the wrong road or to a location which is not on a road.
- When GPS location correction has been done
- If the current location and the vehicle mark are different when the location is corrected using GPS measurements, the vehicle mark may seem to jump. At this time, the location may be "corrected" to a location which is not on a road.

Vehicle Mark is in a River or Sea

The navigation system moves the vehicle mark with no distinction between land and rivers or sea. If the vehicle mark is somehow out of place, it may appear that the vehicle is driving in a river or the sea.

Vehicle Mark Automatically Rotates

The system wrongly memorizes the rotating status as stopping when the ignition switch is turned ON with the turntable rotating. That causes the vehicle mark to rotate when the vehicle is stopped.

When Driving on Same Road, Sometimes Vehicle Mark is in Right Place and Sometimes it is in Wrong Place The conditions of the GPS antenna (GPS data) and gyroscope (angular speed sensor) change gradually. Depending on the road traveled and the operation of the steering wheel, the location detection results will be different. Therefore, even on a road on which the location has never been wrong, conditions may cause the vehicle mark to deviate.

REMOVAL AND INSTALLATION AV CONTROL UNIT

Exploded View

INFOID:000000013024657



- 1. AV control unit
- AV control unit bracket (RH) 4

Removal and Installation

INFOID:000000013024658

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REMOVAL

CAUTION:

Before replacing AV control unit, perform "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT" to save current vehicle specification. Refer to AV-110, "ADDITIONAL SERVICE WHEN REPLAC-AV **ING AV CONTROL UNIT : Description".**

- Disconnect battery or batteries. Refer to <u>PG-174, "Battery Disconnect"</u>.
- 2. Remove cluster lid C lower. Refer to IP-17, "CLUSTER LID C LOWER : Removal and Installation".
- Remove A/C switch assembly. Refer to <u>HAC-117, "Removal and Installation"</u>.
- Remove AV control unit bracket screws, then pull out AV control unit.
- Disconnect harness connectors from AV control unit and remove AV control unit. 5.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After replacing AV control unit, perform "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT" to configure and register AV control unit. Refer to AV-110, "ADDITIONAL SERVICE WHEN **REPLACING AV CONTROL UNIT : Description".**

AV-157

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[NAVIGATION WITHOUT AMPLIFIER]

USB INTERFACE AND AUX IN JACK

Exploded View

INFOID:000000013251317



1. Cluster lid C lower

2. USB interface and aux in jack () Pawl

<⊐ Front

Removal and Installation

INFOID:000000013251318

REMOVAL

- 1. Remove cluster lid C lower. Refer to IP-17. "CLUSTER LID C LOWER : Removal and Installation".
- 2. Disconnect harness connector from USB interface and aux in jack.
- 3. Release pawls using suitable tool and remove USB interface and aux in jack.

INSTALLATION

Installation is in the reverse order of removal.

FRONT TWEETER

Removal and Installation

REMOVAL

- 1. Remove front pillar finisher. Refer to INT-20, "FRONT PILLAR FINISHER : Removal and Installation".
- 2. Remove defroster grille. Refer to VTL-9, "Exploded View".
- 3. Remove speaker grille. Refer to <u>IP-14. "Exploded View"</u>.
- 4. Remove front tweeter screws (A).
- 5. Disconnect harness connector from front tweeter (1) and remove front tweeter.



Installation Installation is in the reverse order of removal.

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[NAVIGATION WITHOUT AMPLIFIER]

FRONT DOOR SPEAKER

Removal and Installation

REMOVAL

- 1. Remove front door finisher. Refer to <u>INT-14, "Removal and Installation"</u>.
- 2. Remove front door speaker screws (A).
- 3. Disconnect harness connector from front door speaker (1) and remove front door speaker.



INFOID:000000013024662

INSTALLATION Installation is in the reverse order of removal.

REAR DOOR SPEAKER

Removal and Installation

REMOVAL

- 1. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
- 2. Remove rear door speaker screws (A).
- 3. Disconnect harness connector from rear door speaker (1) and remove rear door speaker.



INSTALLATION Installation is in the reverse order of removal.

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SATELLITE RADIO ANTENNA

Removal and Installation

SATELLITE RADIO ANTENNA

REMOVAL

- 1. Partially remove headliner. Refer to INT-32, "Removal and Installation".
- 2. Disconnect the harness connector (A) from the satellite radio antenna connector.
- 3. Remove the satellite radio antenna nut (B).



4. Remove the satellite radio antenna.

INSTALLATION

Installation is in the reverse order of removal.

• Install satellite radio antenna to specification.

Satellite radio antenna nut : 10.1 N·m (1.0 kg-m, 7.0 ft-lb)

CAUTION:

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

INFOID:000000013024664

GPS ANTENNA

Removal and Installation	INFOID:000000013024665
REMOVAL	В
 Remove instrument panel assembly. Refer to <u>IP-14, "Removal and Install</u> Remove GPS antenna screw and GPS antenna. 	lation".
INSTALLATION Installation is in the reverse order of removal.	C
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STEERING SWITCHES

< REMOVAL AND INSTALLATION >

STEERING SWITCHES

Exploded View

INFOID:000000013251881



Driver air bag module 4.

Removal and Installation

INFOID:000000013251882

REMOVAL

1.

- Remove steering wheel. Refer to ST-34, "Removal and Installation". 1.
- 2. Remove steering wheel rear cover screws and steering wheel rear cover.
- 3. Remove steering wheel switch screws and steering wheel switches.

INSTALLATION

Installation is in the reverse order of removal.

ROD ANTENNA

Removal and Installation

REMOVAL

- 1. Remove antenna rod.
- 2. Remove fender protector. Refer to EXT-32, "Removal and Installation Front Fender Protector".
- 3. Remove bolt (A) from rod antenna bracket (1).



		ALNIA1865ZZ	F
4. 5.	Disconnect the rod antenna feeder from the rod antenna. Remove rod antenna.		G
INS Inst • Ti	TALLATION allation is in the reverse order of removal. ghten rod antenna to specification.		Н

Rod antenna

: 7.0 N·m (0.71 kg-m, 62 in-lb)

CAUTION:

Always properly tighten the rod antenna during installation or the rod antenna may bend or break during vehicle operation.

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MICROPHONE

Removal and Installation

REMOVAL

- 1. Remove front room/map lamp assembly. Refer to INL-68. "Removal and Installation".
- 2. Disconnect harness connector from microphone (A).
- 3. Release pawls using suitable tool and remove microphone (1) from front room/map lamp assembly (2).

(]) :Pawl



[NAVIGATION WITHOUT AMPLIFIER]

INSTALLATION Installation is in the reverse order of removal. INFOID:000000013251884

< PRECAUTION >

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PRECAUTION PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT **PRF-TENSIONER**" INFOID:000000013480165

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual. D

WARNING:

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

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

WARNING:

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

Cautions in Removing Battery Terminal and AV Control Unit

CAUTION:

Remove battery terminal or terminals, display control unit, 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 display control unit and the AV control unit continue operating for approximately 30 seconds.

Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

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.
- AV Be sure to turn ignition switch OFF and disconnect the battery cable or cables from the negative terminal or terminals before checking the circuit. Refer to PG-174, "Battery Disconnect".

Precaution for Harness Repair

AV COMMUNICATION SYSTEM

PRECAUTIONS

< PRECAUTION >

[NAVIGATION WITH AMPLIFIER]

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



NG: Bypass wire connection

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

Precaution for Work

PKIA0307E

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- · Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

PREPARATION

Special Service Tools

INFOID:000000013024680

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

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

Commercial Service Tools

INFOID:000000013024681

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

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< SYSTEM DESCRIPTION > SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[NAVIGATION WITH AMPLIFIER]

No.	Component	Function	А
1.	Microphone	Refer to <u>AV-174, "Microphone"</u> .	
2.	AV control unit	Refer to AV-171, "AV Control Unit".	
3.	Rod antenna	Refer to AV-174, "Antenna and Antenna Feeder".	В
4.	USB interface and AUX in jack	Refer to AV-173, "USB Interface and AUX In Jack".	
5.	GPS antenna	Refer to AV-174, "GPS Antenna".	С
6.	Combination meter	Refer to MWI-12, "METER SYSTEM : Combination Meter".	
7.	Steering switches	Refer to AV-174, "Steering Switches".	
8.	Satellite antenna	Refer to AV-174, "Antenna and Antenna Feeder".	D
9.	Rear door tweeter RH	Refer to <u>AV-172, "Speaker"</u> .	
10.	Rear door speaker RH	Refer to <u>AV-172, "Speaker"</u> .	E
11.	Center speaker	Refer to <u>AV-172, "Speaker"</u> .	_
12.	Front pillar speaker RH	Refer to <u>AV-172, "Speaker"</u> .	
13.	Front tweeter RH	Refer to <u>AV-172, "Speaker"</u> .	F
14.	Front door speaker RH	Refer to <u>AV-172, "Speaker"</u> .	
15.	Subwoofer	Refer to <u>AV-172, "Speaker"</u> .	\sim
16.	Front tweeter LH	Refer to <u>AV-172, "Speaker"</u> .	G
17.	Front door speaker LH	Refer to <u>AV-172, "Speaker"</u> .	
18.	Audio amp.	Refer to AV-171, "Audio Amp.".	Н
19.	Front pillar speaker LH	Refer to <u>AV-172, "Speaker"</u> .	
20.	Rear door speaker LH	Refer to <u>AV-172, "Speaker"</u> .	
21.	Rear door tweeter LH	Refer to <u>AV-172, "Speaker"</u> .	I

AV Control Unit

Description

- A 7-inch QVGA display, an AM/FM electronic tuner radio, CD drive, audio amplifier, Bluetooth[®] module, camera controller and navigation unit are integrated into the AV control unit.
- The 7-inch display is a high resolution monitor that includes touch panel functions.
- Music files stored in iPod^{®*}/USB memory can be played using the separate USB interface.
- *: iPod[®] is a registered trademark of Apple, Inc. All rights reserved.



Audio Amp.

- · Audio amp. is located under the left front seat.
- · It receives sound signal from AV control unit and outputs sound signal to each speaker, tweeter and the subwoofer.



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< SYSTEM DESCRIPTION >

Speaker

FRONT TWEETER

- 5.1 cm (2 in) speakers are installed in the top corners of the instrument panel assembly.
- Sound signals generated by the audio amp. output high range sounds.



[NAVIGATION WITH AMPLIFIER]

FRONT PILLAR SPEAKER

- 2.5 cm (1 in) speakers are installed in the LH and RH front pillar finishers.
- Sound signals generated by the audio amp. output high range sounds.



CENTER SPEAKER

- 10.2 cm (4 in) speaker is installed in the top center of the instrument panel assembly.
- Sound signals generated by the audio amp. output mid range sounds.



FRONT DOOR SPEAKER

- 15.2 x 22.9 cm (6 x 9 in) speakers are installed in the front side bottom of the front doors.
- Sound signals generated by the audio amp. output low range sounds.



REAR DOOR TWEETER

COMPONENT PARTS

< SYSTEM DESCRIPTION >

- 2.5 cm (1 in) speakers are installed in the front side middle of the rear doors.
- · Sound signals generated by the audio amp. output high range sounds.



REAR DOOR SPEAKER

- 16.5 cm (6.5 in) speakers are installed in the front side bottom of the rear doors.
- · Sound signals generated by the audio amp. output mid range sounds.



- 20.3 cm (8 in) driver is installed in the subwoofer which is mounted under the right front seat.
- · Sound signals generated by the audio amp. output low range sounds.



- USB Interface and AUX in jack is installed in the cluster lid C lower.
- iPod[®] and USB memory can be connected to the AV control unit through the USB interface.
- An external audio device can be connected to the AV control unit through the AUX in jack.





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Steering Switches

- Operations for audio and hands-free phone are possible.
- Switch is connected to the AV control unit.





Microphone

- The microphone is installed in the front roof console.
- Power is supplied from the AV control unit.

JSNIA6092Z

GPS Antenna

SD Card

- GPS antenna is installed in the instrument panel, behind the cluster lid C finisher (LH).
- Power is supplied from the AV control unit.



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• Map data is memorized in the SD card.

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

Antenna and Antenna Feeder

RADIO AND SATELLITE ANTENNAS

[NAVIGATION WITH AMPLIFIER]

INFOID:000000013229151

COMPONENT PARTS

< SYSTEM DESCRIPTION >

AM/FM radio rod antenna is located on the right front fender. The satellite antenna is located on the front left side of the roof.

[NAVIGATION WITH AMPLIFIER]



ANTENNA FEEDER



Revision: March 2016

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< SYSTEM DESCRIPTION >

SYSTEM

System Description

INFOID:000000013024685

SYSTEM DIAGRAM



DESCRIPTION

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

Audio function and display are built into AV control unit.

- This navigation has the following functions.
- Map data on SD-card
- · High resolution color 7-inch display with touch panel function
- FM/AM twin digital tuner
- USB interface and AUX in jack
- Full support for playback of music from iPod[®]
- Satellite radio
- Hands-free phone system

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

NAVIGATION SYSTEM FUNCTION

Description

- The navigation system can be operated by control panel of the AV control unit and display (touch panel) of the AV control unit.
- Guide sound during the operation of the navigation system is output from AV control unit to front speakers.
- AV 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. The vehicle location is displayed on the AV 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.

SYSTEM

< SYSTEM DESCRIPTION >

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.



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 this case, the vehicle mark on the display must be corrected manually.

• 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.

Routes 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.



North

θ°: Previous forward direction of vehicle

or of the second direction direction of the second direction directio

ℓ: Distance traveled from previous position

Previous

position

North

(θ+φ)°

Current

position

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SYSTEM

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 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.

[NAVIGATION WITH AMPLIFIER]





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.

SATELLITE RADIO FUNCTION

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

USB INTERFACE AND AUX IN JACK FUNCTION

- Sound and data signals are transmitted from USB interface to the AV control unit and output to each speaker and tweeter.
- Sound signals are transmitted from AUX in jack to the AV control unit and output to each speaker and tweeter.

SPEED SENSITIVE VOLUME SYSTEM

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

HANDS-FREE PHONE SYSTEM

- Bluetooth[®] control is built into AV control unit.
- The connection between cellular phone and AV control unit is performed with Bluetooth[®] communication.
- The voice guidance signal is input from the AV control unit and output to the front speakers when operating the cellular phone.



< SYSTEM DESCRIPTION >

When A Call Is Originated Spoken voice sound output from the microphone (microphone signal) is input to AV control unit. 	А
 AV control unit outputs to cellular phone with Bluetooth[®] communication as a TEL voice signal. Voice sound is then heard at the other party. 	
When Receiving A Call	В
 Voice sound is input to own cellular phone from the other party. TEL voice signal is input to AV control unit by establishing Bluetooth[®] communication from cellular phone, and the signal is output to front speakers. 	С
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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[NAVIGATION WITH AMPLIFIER]

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Description

INFOID:000000013024686

The AV control unit on board diagnosis performs the functions listed in the table below:

Mode		Item	Content
,	Version	_	Version data of the AV control unit is displayed.
	Touch Display Calibration	_	Calibration of the touch panel display can be performed.
User Configuration	Screenshot to USB	_	A screenshot of the display can be saved to USB memory.
	Time Interval	_	Destination time interval can be select- ed.
Radio	FM monitor	_	Monitors the dynamic values of the cur-
i kadio	AM monitor		rent tuner
	SXM monitor		Version data is displayed.
System State	Running System Status	 SD card slot acces. Power Supply Speed Signal Direction Signal Illumination Signal GPS Antenna GPS tracking Satellites visible Satellites tracked Microphone Current Steer. wheel key Radio Antenna #No translation requi SXM Antenna USB Device iPod firmware ver. BT Status 	The current system status is displayed.
	Speaker Test 4kHz Speaker Test 100Hz		This activates a sequence of test tone outputs to the audio circuits one after the other for 1 second.
	Display-Test		This provides a test sequence where test displays (plain colored display: e.g. white, black, red, blue, green) are shown one after the other. The respective color is shown for an in- dicated period of time (parameter). After the display test, the design of the display previously available is stored. While the screen shows a plain colored display, a pixel malfunction may be detected.
Self Test		 SD Card Access BT Module Access GPS Antenna Radio Antenna SXM Antenna 	A system self test is executed and the results are stored into the error memory.

Perform CONSULT diagnosis if the AV control unit on board diagnosis does not start or the screen does not display anything.

On Board Diagnosis Function

METHOD OF STARTING

INFOID:000000013024687

1. Turn the ignition ON.

Revision: March 2016
DIAGNOSIS SYSTEM (AV CONTROL UNIT) [NAVIGATION WITH AMPLIFIER]

< SYSTEM DESCRIPTION >

- 2. Turn the audio system OFF.
- 3. While pressing the APPS button, turn the TUNE-SCROLL dial counterclockwise 5 or more clicks, then clockwise 5 or more clicks, then counterclockwise 5 or more clicks. Shifting from current screen to previous screen is performed by pressing BACK button.

The trouble diagnosis initial screen is displayed, and Version, 4. User Configuration, Radio, System State or Self Test can be selected.







CONSULT Function

CAUTION:

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

CONSULT FUNCTIONS

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

Direct Diagnostic Mode	Description	
Ecu Identification	The AV control unit part number is displayed.	
Self Diagnostic Result	The AV control unit self diagnostic results are displayed.	
Data Monitor	The AV control unit input/output data is displayed in real time.	
Configuration	The vehicle specification can be read and saved.The vehicle specification can be written when replacing AV control unit.	M
CAN Diag Support Mntr	 The result of transmit/receive diagnosis of AV communication is displayed. The result of transmit/receive diagnosis of CAN communication is displayed. 	٨١/

ECU IDENTIFICATION

The part number of AV control unit is displayed.

SELF DIAGNOSTIC RESULT

Refer to AV-187, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
VHCL SPD SIG [On/Off]	Indicates vehicle speed signal received from combination meter on CAN communication line.
ILLUM SIG [On/Off]	Indicates condition of illumination signal for the AV control unit.

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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[NAVIGATION WITH AMPLIFIER]

Description

Monitor Item [Unit]

IGN SIG [On/Off]

Indicates condition of ignition signal.

REV SIG [On/Off] Indicates condition of reverse signal received from BCM.

CONFIGURATION

Refer to AV-212, "CONFIGURATION (AV CONTROL UNIT) : Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-48, "CAN Diagnostic Support Monitor".

< ECU DIAGNOSIS INFORMATION > ECU DIAGNOSIS INFORMATION AV CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Monitor Item Condition		
VHCL SPD SIG	Vehicle speed = 0 km/h (0 MPH).	Off	-
	Vehicle speed > 0 km/h (0 MPH).	On	D
	Illumination signal is not received.	Off	-
	Illumination signal is received.	On	_
IGN SIG	Ignition switch OFF or ACC.	Off	-
	Ignition switch ON.	On	-
PEV SIG	Selector lever in any position other than R.	Off	F
REV SIG	Selector lever in R position.	On	-

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description			Condition	Reference value	M
+	_	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)	
1 (G/W)	Ground	Amp ON signal	Output	ACC	_	Battery voltage	AV
2 (L)	3 (W)	Sound signal front speaker LH	Output	ON	Sound output	(V) 1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	O P

INFOID:000000013024689 B

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< ECU DIAGNOSIS INFORMATION >

Terminal (Wire color)		Description		Condition	Reference value	
+	_	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)
4 (L)	5 (BR)	Sound signal rear speaker LH	Output	ON	Sound output	(V) 1 0 -1 • 2ms SKIB3609E
7 (R)	Ground	ACC power supply	Input	ACC	_	Battery voltage
8 (L)	_	CAN high	Input/ Output	_	_	_
9 (L)	Ground	Illumination ON control sig- nal	Input	ON	Parking lamps or head- lamps ON	Battery voltage
10 (Shield)		Sound signal shield		_	_	_
11 (B)	12 (Y)	Sound signal front speaker RH	Output	ON	Sound output	(V) 1 0 -1 2 ms skib3609E
13 (B/W)	14 (P)	Sound signal rear speaker RH	Output	ON	Sound output	(V) 1 0 -1 2ms SKIB3609E
17 (P)	_	CAN low	Input/ Output	_	_	_
18 (G)	Ground	Vehicle speed signal	Input	ON	When vehicle speed is approx. 40 km/h (25 MPH)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
19 (W)	Ground	Battery power supply	Input	OFF	_	Battery voltage
20 (B)	Ground	Ground	_	ON	_	0 V
21 (LG)	_	AV communication (L)	Input/ Output	_		
22 (SB)	_	AV communication (H)	Input/ Output	_	_	_
23 (L)		MR output	Output		_	_

< ECU DIAGNOSIS INFORMATION >

Terminal (Wire color)		Description			Condition	Reference value	А
+	_	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)	
					Selector lever in R (re- verse)	Battery voltage	В
28 (G/W)	Ground	Reverse signal	Input	ON	Selector lever in any po- sition other than R (re- verse)	0 V	С
30 (V)	Ground	AUX audio signal LH	Input	ON	AUX audio signal re- ceived	(V) 1 -1 -1 -1 -1 -1 -1 -1 -1 -1	D
31 (GR)	_	AUX ground		ON		0V	F
32 (G)	Ground	AUX audio signal RH	Input	ON	AUX audio signal re- ceived	(V) 1 0 -1 2ms SKIB3609E	G
33 (L/W)	Ground	Camera ground		ON	_	0 V	
34 (L)	Ground	Camera power supply	Output	ON	When camera image is displayed	6.0 V	J
					Except for above	0 V	-
36 (R) ¹ (G) ²	35 (R/W) ¹ (Shield) ²	Camera image signal	Input	ON	When camera image is displayed	(V) 0.4 0 -0.4 SKIB2251J	K L
37 (G/R)	Ground	Ignition power supply	Input	ON or START	_	Battery voltage	IVI
38 (LG)	—	AV communication (L)	Input/ Output	—	_	_	AV
39 (SB)	_	AV communication (H)	Input/ Output	_	_	_	
40 (Shield)	_	AUX shield	_	_	_		0
42 (R)	Ground	Microphone power supply	Output	ON	_	5.0 V	Ρ

< ECU DIAGNOSIS INFORMATION >

(Wire color)		Description	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)
43 (W)	41 (Shield)	Microphone signal	Input	ON	While speaking into mi- crophone.	(V) 1 0 -1 2 ms SKIB3609E
44 (GR)	Ground	Illumination dimming con- trol signal	Input	ON	CPM lighting ON	0 0 20 ms JSNIA0012CB
45 (B)	_	V BUS signal			_	_
47 (G)	_	USB D– signal		_	_	_
48 (W)	_	USB D+ signal	_	_	—	_
49 (R)	_	USB ground	_	_	—	_
50 (Shield)	_	USB shield	_	_	_	_
52 (B)	_	AM/FM antenna signal	_	_	—	_
53 (Shield)	_	AM/FM antenna shield	_	_	—	_
56 (B)	Ground	Satellite antenna signal	Input	ON	—	5.0 V
57 (Shield)	_	Satellite antenna shield	_	_	—	_
58 (B)	Ground	GPS antenna signal	Input	ON	—	5.0 V
59 (Shield)	_	GPS antenna shield	_	_	—	_
60 ³ (W)	64 ³ (R)	Microphone signal	Output	ON	While speaking into the microphone	(V) 1 0 -1 • 2ms SKIB3609E
61° (Shield)		Microphone shield			_	_
68 ³ (B)	—	V BUS signal	—	—	—	_
70 ³ (G)	—	USB D- signal		—	_	

< ECU DIAGNOSIS INFORMATION >

[NAVIGATION WITH AMPLIFIER]

Terminal Dese (Wire color)		Description	Description		Condition	Reference value	A
+	_	Signal name	Input/ Output	lgnition switch	Operation	(Approx.)	
71 ³ (W)	_	USB D+ signal	_		_	_	В
72 ³ (R)	_	USB ground	_	_	_	_	С
73 ³ (Shield)	_	USB shield	_	_	_	_	D

¹: With rear view monitor

²: With around view monitor

³: With telematics system

DTC Index

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CONSULT Display	Reference Page	
U1000: CAN COMM CIRCUIT	AV-216, "DTC Description"	6
U1010: CONTROL UNIT (CAN)	AV-217, "DTC Description"	
U1217: BLUETOOTH MODULE	AV-218, "DTC Description"	
U1229: iPod CERTIFICATION	AV-219, "DTC Description"	Н
U1244: GPS ANTENNA CONN	AV-220, "DTC Description"	
U1258: XM ANTENNA CONN	AV-221, "DTC Description"	
U1263: USB OVERCURRENT	AV-223, "DTC Description"	_
U1265: AMP ON TERMINAL	AV-224, "DTC Description"	
U12AA: Configuration Error	AV-226, "DTC Description"	J
U12AB: FM Antenna error	AV-227, "DTC Description"	
U12AC: Display Temperature too High	AV-228, "DTC Description"	
U12AD: ECU Temperature too High	AV-229, "DTC Description"	K
U12AE: Internal Amplifier temperature Warning	AV-230, "DTC Description"	
U12AF: CD Mechanism Temperature Warning	AV-231, "DTC Description"	L
U12B0: Supply Voltage Goes below 9V > 20s	AV-232, "DTC Description"	
U12B1: Supply Voltage Goes High > 16V for 20s	AV-233, "DTC Description"	
		M

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AUDIO AMP.

Reference Value

INFOID:000000013209057

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (wire color)		Item	Signal input/ output		Condition	Reference value (Approx.)	
1 (Y)	Ground	Battery	Input	_	_	Battery voltage	
2 (W)	18 (B)	Subwoofer	Output	Ignition switch ON	Receive audio sig- nal	(V) 1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	
3 (BR/W)	19 (BR)	Subwoofer	Output	lgnition switch ON	Receive audio sig- nal	(V) 1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	
4 (B)	Ground	Ground	_	lgnition switch ON	_	_	
9 (G/W)	Ground	Amp. ON signal	Input	lgnition switch ON	-	More than 6.5V	
10 (L/W)	26 (L/B)	Center speaker	Output	lgnition switch ON	Receive audio sig- nal	(V) 1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	

AUDIO AMP.

Terminal (wire color)		Item	Signal input/		Condition	Reference value	
+	_		output			(Approx.)	
11 (SB)	27 (B/Y)	Rear door speak- er LH and rear door tweeter LH	Output	lgnition switch ON	Receive audio sig- nal	(V) 1 0 -1 1 1 1 1 1 1 1 1 1 1 1 1 1	B
12 (O/L)	28 (R/L)	Rear door speak- er RH and rear door tweeter RH	Output	lgnition switch ON	Receive audio sig- nal	(V) 1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	E
13 (W/B)	29 (L/B)	Front tweeter RH and front pillar speaker RH	Output	lgnition switch ON	Receive audio sig- nal	(V) 1 0 -1 1 1 1 1 1 1 1 1 1 1 1 1 1	G
14 (L/W)	30 (L/R)	Front tweeter LH and front pillar speaker LH	Output	lgnition switch ON	Receive audio sig- nal	(V) 1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	I J K
15 (L/W)	31 (L/R)	Front door speak- er LH	Output	lgnition switch ON	Receive audio sig- nal	(V) 1 0 -1 1 1 1 1 1 1 1 1 1 1 1 1 1	L
16 (W/B)	32 (L/B)	Front door speak- er RH	Output	lgnition switch ON	Receive audio sig- nal	(V) 1 0 -1 5 5 5 5 5 5 5 5 5 5 5 5 5	AV 0
17 (Y/LG)	Ground	Battery	Input	_	_	Battery voltage	Р
20 (B)	Ground	Ground	_	Ignition switch ON	-	_	

AUDIO AMP.

< ECU DIAGNOSIS INFORMATION >

Tern (wire	ninal color)	Item	Signal input/ output		Condition	Reference value (Approx.)
21 (B)	5 (Y)	Audio sound sig- nal front RH	Input	Ignition switch ON	Receive audio sig- nal	(V) 1 0 -1 1 1 ms 1 1 ms 1 ms
22 (L)	6 (W)	Audio sound sig- nal front LH	Input	lgnition switch ON	Receive audio sig- nal	(V) 1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
23 (B/W)	7 (P)	Audio sound sig- nal rear RH	Input	lgnition switch ON	Receive audio sig- nal	(V) 1 0 -1 5 KIA0177E
24 (L)	8 (BR)	Audio sound sig- nal rear LH	Input	lgnition switch ON	Receive audio sig- nal	(V) 1 0 -1 1 1 1 1 1 1 1 1 1 1 1 1 1







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NAVIGATION WITH AMPLIFIER [NAVIGATION WITH AMPLIFIER]



			TO MAIN HARNESS		79.1
			TO MAIN HARNESS	GR/B	78J
			TO MAIN HARNESS	R S	192
			TO MAIN HARNESS	LG/B	75J
			TO MAIN HARNESS	SHIELD	74.0
			TO MAIN HARNESS	1	72.1
			TO MAIN HARNESS TO MAIN HARNESS	- LW	L17
			TO MAIN HARNESS	BR	L07
			TO MAIN HARNESS TO MAIN HARNESS	SHIELD	69
			TO MAIN HARNESS	SHIELD	67J
FR LH TW -	E B	. 2	TO MAIN HARNESS	В	66J
FR LH TW +	ΓW	-	TO MAIN HARNESS	SHIELD	65J
Signal Name	Vire	No.	TO MAIN HARNESS	۲W	64J
	•		TO MAIN HARNESS	RW	63,1
			TO MAIN HARNESS TO MAIN HARNESS	ۍ ت	613
7			TO MAIN HARNESS	SHIELD	60J
			TO MAIN HARNESS	-	59J
		SH	TO MAIN HARNESS	2 o	58J
		E	TO MAIN HARNESS	×	56J
ROWN	Color	Connector	TO MAIN HARNESS	В	55J
K02MBR-P	Type	Connector	TO MAIN HARNESS	-	54J
т	_		TO MAIN HARNESS TO MAIN HARNESS	B	220
RONT PILLAR SPEA	Name	Connector	TO MAIN HARNESS	1	51J
82	No.	Connector	TO MAIN HARNESS	G/W	50J
			TO MAIN HARNESS	BR/Y	49J
TO MAIN HARNES	SB	1001	TO MAIN HARNESS	>	48J
TO MAIN HARNES	ML	P66	TO MAIN HARNESS	Y/GR	47J
TO MAIN HARNES	1/8	1.86	TO MAIN HARNESS	n ∠a	46.1
TO MAIN HARNES	œ	69	TO MAIN HARNESS	H	44J
TO MAIN HARNES	ГG	95,1	TO MAIN HARNESS	SB	43J
TO MAIN HARNES	-	94J	TO MAIN HARNESS	_	42J
TO MAIN HARNES	8	93.1	TO MAIN HARNESS	-	41J
TO MAIN HARNES	S BS	92,1	TO MAIN HARNESS	BB	401
TO MAIN HARNES	, W	61.1	TO MAIN HARNESS	8 5	30.1
TO MAIN HARNES TO MAIN LADNES	GR/R	P68	TO MAIN HARNESS TO MAIN LAPARESE	LG/B	37J
TO MAIN HARNES	SHIELD	88.1	TO MAIN HARNESS	G/R	36J
TO MAIN HARNES	B/R	F78	TO MAIN HARNESS	٩	35J
TO MAIN HARNES	σ	86.1	TO MAIN HARNESS	7	34J
TO MAIN HARNES	Y/B	85J	TO MAIN HARNESS	:	33J
TO MAIN HARNES	1	84J	TO MAIN HARNESS	œ	32J
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	B69	WIRE TO WIRE	TH80MW-CS16-TM4	WHITE		51 41 31 21 11	10, 3, 8, 7, 6,	214 [201 [49] [48] [77] [46] [45] [44] [53] [72] [71] 301 [291 [281] 271 [261 [251] 241 [233 [221	411 400 384 384 371 381 351 341 331 331 321 311 501 491 481 471 461 451 441 431 421	61/1 60/1 59/1 58/1 55/1 56/1 55/1 54/1 53/1 52/1 51/1 70/1 69/1 68/1 65/1 66/1 65/1 64/1 63/1 62/1	84.180.179.178.172.178.178.178.173.172.172.1	90.0 89.0 88.0 87.1 86.1 85.1 84.1 83.1 82.1	961 941 931 921 911	100/ 99/ 98/ 97/ 96/]		f Signal Name	olgian valie	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HARNESS	TO MAIN HAHNESS TO MAIN HARNESS							
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WITH AMPLIFIER CC	B6	WIRE TO WIRE	TK10FW-NS8	WHITE		10 9 8 7 6	18 17 16 15 14 13 12 11		of Signal Name	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO PEAP DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS	TO REAR DOOR LH HARNESS																		
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-	1	TO REAR DOOR LH HARNESS
2	1	TO REAR DOOR LH HARNESS
8	1	TO REAR DOOR LH HARNESS
4	1	TO REAR DOOR LH HARNESS
5	1	TO REAR DOOR LH HARNESS
9	1	TO REAR DOOR LH HARNESS
7	1	TO REAR DOOR LH HARNESS
ø	OL	TO REAR DOOR LH HARNESS
6	1	TO REAR DOOR LH HARNESS
10	-	TO REAR DOOR LH HARNESS
11	ВΛ	TO REAR DOOR LH HARNESS
12	SB	TO REAR DOOR LH HARNESS
13	BR	TO REAR DOOR LH HARNESS
14	٨	TO REAR DOOR LH HARNESS
15	8	TO REAR DOOR LH HARNESS
16	ΓC	TO REAR DOOR LH HARNESS
17	L	TO REAR DOOR LH HARNESS
18	SB	TO REAR DOOR LH HARNESS

NAVIGATION WITH AMPLIFIER

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< WIRING DIAGRAM >

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NAVIGATION WITH AMPLIFIER CONNECTORS

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Revision: March 2016

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G/B	MH I	<u>د</u>	G/B	G/B	BR/Y	٩	•	c	٩	٨١L	GR	G/R	ß	RW	8 8		R/G	0	8	e	5	RY	<u>ء</u> و	2 0	: >	: '	В	æ	-	> >	: 0	> >	7	BG	ß	g d	α≥	: a	- 10	W/B	BG	BG		7		RW
547	25G	26G 27G	28G	29G	30G	31G	910	5	32G	33G	34G	35G	36G	37G	39G	40G	41G	42G	43G	43G		44G	45G	46G	486	49G	50G	51G	52G	53G	556	56G	57G	58G	59G	606	510	630	646	65G	999	67G	68G	69G	70G	71G
· No. E152	Name WIRE TO WIRE	Type TH80MW-CS16-TM4	Color WHITE				27 27 29	20 410 35 26 16 200 96 86 76 66	3	216/206/196/176/166/156/146/136/126/116	6770670470670470707087087087080	416,406 396 386 376 366 366 346 336 326 316 FOR 495 485 475 445 445 447 445 447 435 425		01000000000000000000000000000000000000	81G806796776776766756746736726716	90G89G88G88G87G86G85G84G83G82G	010 000 000 000	000 990 990 970 960				Color of 2	Wire Signal Name	G TO MAIN HARNESS	B/R TO MAIN HARNESS	W/B TO MAIN HARNESS	BR/W TO MAIN HARNESS	BR TO MAIN HARNESS	VK56VD)	R/W TO MAIN HARNESS - (WITH CUMMINS 5 01)	Y TO MAIN HARNESS	G TO MAIN HARNESS	R TO MAIN HARNESS	W TO MAIN HARNESS	R/G TO MAIN HARNESS	W/B TO MAIN HARNESS	V/R TO MAIN HARNESS	G/W TO MAIN HARNESS	G TO MAIN HARNESS	G/Y TO MAIN HARNESS	G/Y TO MAIN HARNESS	Y/V TO MAIN HARNESS	G/Y TO MAIN HARNESS	B/Y TO MAIN HARNESS	G/R TO MAIN HARNESS	Y/R TO MAIN HARNESS
Connector	Connector	Connector	Connector		서타서타	SH																Terminal	No.	1G	2G	3G	4G	ទី	8	99	7G	98	96	10G	11G	12G	146	156	16G	17G	18G	19G	20G	21G	22G	23G
D307	16 REAR DOOR SPEAKER RH	NS02FW-CS	yr WHITE					2 1			lor of 2	Vire Signal Name	J/L RR RH OUT -	R/L RR RH OUT +	_	D308	16 REAR DOOR TWEETER RH	> TK02FBR	or BROWN				2 1				lor of Signal Name	D/L BR BH OUT +	RR RH OUT -	-																
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< WIRING DIAGRAM >

[NAVIGATION WITH AMPLIFIER]

Revision: March 2016

		.	:		16P	8	BLOWER FAN RELAY OUT	45	
No.	M1	Connector	No.	M3				46	'
Name	WIRE TO WIRE	Connector	Name	FUSE BLOCK (J/B)				47	'
Type	TH32FW-NH	Connector	Type	CS06FW-M2	Connector	Ŋ	M8	48	ď
Color	WHITE	Connector	Color	WHITE	Connector	Name	WIRE TO WIRE	64	: '
		J			Connector	Type	NS16MW-CS	50	'
		1444hh			Connector	Color	WHITE	51	1
		ЧС		3N 3N 1N	fe			52	3
16 15 14	13 12 11 10 9 8 7 6 5 4 3 2 1	5						53	1
32 31 30	29 28 27 26 25 24 23 22 21 20 19 18 17			8N 7N 6N 5N 4N	H.S.	·	3 4 5 7	54	1/M
							• • • • • • • • • • • • • • • • • • •	55	W/E
						ດ ໝ	10 11 12 13 14 15 16	56	'
Color c	of Signal Name	Terminal	Color of	Sinnal Namo				57	1
Wire		No.	Wire		•			20	•
SHIELD	TO ROOM LAMP HARNESS	ň	0	IGN	Terminal	Color of	Signal Name	60	-
æ	TO ROOM LAMP HARNESS	2N	8	BATTERY	NO.	AllA		61	0
≥	TO ROOM LAMP HARNESS	3N	≥	IGNITION	-	BW	TO FRONT DOOR LH HARNESS	62	8
SB	TO ROOM LAMP HARNESS	4N	>	BATTERY	2	G/B	TO FRONT DOOR LH HARNESS	63	'
G/W	TO ROOM LAMP HARNESS	ξN	>	BATTERY	m	-	TO FRONT DOOR LH HARNESS	64	•
G/R	TO ROOM LAMP HARNESS	6N	M	BATTERY	4	ж	TO FRONT DOOR LH HARNESS	er a	
œ	TO ROOM LAMP HARNESS	N	-	ACC RELAY OUT	5	W/R	TO FRONT DOOR LH HARNESS	8 4	M
-	TO ROOM LAMP HARNESS	8	×	IGNITION	9	W/L	TO FRONT DOOR LH HARNESS	8 5	\$ (
R/G	TO ROOM LAMP HARNESS				7	>	TO FRONT DOOR LH HARNESS	6	5.
σ	TO ROOM LAMP HARNESS	Connector		- M	ø	8	TO FRONT DOOR LH HARNESS	8	
3	TO ROOM LAMP HARNESS			M4	6	ΓW	TO FRONT DOOR LH HARNESS	Ro i	2
-	TO ROOM LAMP HARNESS	Connector	Name	FUSE BLOCK (J/B)	10	L/R	TO FRONT DOOR LH HARNESS	2	- (
ß	TO ROOM LAMP HARNESS	Connector	Type	NS16FW-CS	11	۲W	TO FRONT DOOR LH HARNESS	=	
н	TO ROOM LAMP HARNESS	Connector	Color	WHITE	12	L	TO FRONT DOOR LH HARNESS	2)	5
W/B	TO ROOM LAMP HARNESS	ſ			13	۲	TO FRONT DOOR LH HARNESS	2	'
5	TO ROOM LAMP HARNESS	1444hh			14	SB	TO FRONT DOOR LH HARNESS	74	1
'	TO ROOM LAMP HARNESS	S H			15	>	TO FRONT DOOR LH HARNESS	15	ŝ
4	TO ROOM LAMP HARNESS		7P 6F	5P 4P 3P 2P 1P	16	ГG	TO FRONT DOOR LH HARNESS	26	_ .
٨٨	TO ROOM LAMP HARNESS		16P 15F	0 14P 13P 12P 11P 10P 9P 8P				: :	
W/B	TO ROOM LAMP HARNESS	_			Connector	No.	M19	0/	
1	TO ROOM LAMP HARNESS				Connector	Name	BCM (BODY CONTROL	80	-
ī	TO ROOM LAMP HARNESS	Tominol	Polor of				MODULE)	:	
1	TO ROOM LAMP HARNESS	No.	Wire	Signal Name	Connector	Ivne	TH40FB-NH		
'	TO ROOM LAMP HARNESS	đ	<u>م</u>	NOILINDI	Connoctor				
1	TO ROOM LAMP HARNESS	: ¢		NOLEINDI					
I.	TO ROOM LAMP HARNESS	ę		IGNITION BELAV OLIT	E				
ī	TO ROOM LAMP HARNESS	5	, wa						
Y/R	TO ROOM LAMP HARNESS	F 8			H.S.				
G/R	TO ROOM LAMP HARNESS	5 8				80 59 58 57 5	16 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41		
GW	TO ROOM LAMP HARNESS	5				80 79 78 77 7	10 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 e		
LG/B	TO ROOM LAMP HARNESS	بر ا	5						
٨X	TO ROOM LAMP HARNESS	ЧR	×	IGNITION					
		8	-	DATTEDV					



Connector No. Connector Name Connector Type Connector Color 16 15 32 31 H.S.

Terminal No.

Revision: March 2016

2016 Titan NAM

< WIRING DIAGRAM >

HIGH SIDE START SW LED

L&R SENSOR K-LINE

PW UART

AUDIO DONGLE

	3		
	59	д	CAN-L
ame	60	L	CAN-H
	61	0	REAR DEFOGGER RELAY OUT
	62	w	STARTER RELAY OUT
H HAKNESS	8	ı	I
H HARNESS	64	ď	BUZZER OUT
H HARNESS	65		-
H HARNESS	99	M	BLOWER FAN RELAY OUT
H HARNESS	67	. 0	IGN ELEC RELAY OUT 2
H HARNESS	89	-	MR OUTPUT
H HARNESS	69	R/B	AT DEVICE OUT
H HAHNESS	70	٩	IGN USM OUT 1
H HARNESS	74	0	DR REQUEST SW
H HAHNESS	72	g	AS REQUEST SW
H HARNESS	73	1	1
	74	ı	1
	75	LW	COMBI SW OUT 5
	76	۵.	COMBI SW OUT 4
	11	-	COMBI SW OUT 3
	78	O/B	COMBI SW OUT 2
	62	R/W	COMBI SW OUT 1
TROL	80	I	I
47 46 45 44 43 42 41			

Signal Name	TRAILER LIGHT CHECK RELAY OUT	CARGO LAMP OUT	I	I
Color of Wire	٨	RN	-	1
Terminal No.	41	42	43	44

BATTERY BATTERY BATTERY

	G			Ľ									
٢	σ	B/W	B/W	0	G	M	L	1		1	в	7	Y/LG
2P	ЗР	4P	sР	6P	۲P	8P	d6	10P	11P	12P	13P	14P	15P

27 31 30 28 33 30 28

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33 24 25 26

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Connector Ni						!		
	ame	ATA LINK CONNECTOR	æ	'	1	45	•	CAN-L
Connector Tv			6	BG	AS BELT SW (W/O ODS)	46		CAN-H
CONNECTOR IN	he		10	ГG	TOW MODE SW	47	8	6
Connector Co	olor /	WHITE	F	ВВ	CHG	48	BRV	FUEL SEN
			12	BB	LED HEAD LAMP (R)	49	'	1
			13	M	LED HEAD LAMP (L)	50	1	1
S H			14	н	ACC SW	51	ГG	M CAN-
5		9 10 11 12 13 14 15 16	15	1	I	52	ß	M CAN-I
	>	1 2 3 4 5 6 7 8	16	0	AIR BAG			-
	1		17	'	I	c	- 11 -	
			18	•	TRIP RESET SW	Connecto	r No.	M30
			19	. 1	-	Connecto	r Name	COMBINATION SV
Terminal	Color of	Signal Name	20	œ	OUTSIDE TEMP GND			(SPIHAL CABLE)
No.	Wire	Olyna Mario	5	. ,	1	Connecto	r Type	TK08FGY-1V
-	1	I	i 8	•	STBG SW A	Connecto	r Color	GRAY
2	ı	1	1 8		CTDC CW D			
e	ГG	M-CAN-L	3 3			1414h		
4	в	BODY GND	24 26					
5	-	ENG GND	3			0'E		
9	-	CAN-H	50	IJ	PKB SW			10 9 8 7
7	BR	K-LINE	17	H.	AS BELI SW			14 13 12 1
8	G/R	IGN SW	28	0/B	DR BELT SW			
6			59	1	I			
, ç			30	1	I	Terminal	Color of	
2 7	0	M-CAN-H	31	1	NOT M RANGE	No.	Wire	Signal N
: :	3 0		32	BB	AT SHIFT UP	2	BV	ASCD GND -(WI1
4 <u>6</u>	: -	L-MC	33	٨٨	AT SHIFT DOWN			STEERING V
14		CAN-I	34	'	1	∞	œ	AUDIO STRG SW I
÷ ÷			35	'	I	•	9	
16	×	BATTERY	36	8	ILL UP SW	,	;	STEERING
			37	œ	ILL DOWN SW	6	٩.	AUDIO STRG SW I
			g	σ	8P/R OUTPUT			(WITH HEATED STEE
Connector N(M24	39	'	1	6	Š	ASCD SW - (WITHC STEERING M
Connector N	ame	COMBINATION METER WITH TYPE A)	40	'		10	GV	ASCD SW - (WIT STFFRING M
Connector Ty	, pe	TH40FW-NH	Connector	ON ON	MOR	10	•	AUDIO STRG SW
Connector Co	olor	NHITE	Connector	Name	COMBINATION METER	:		(WITHOUT HEATEI WHEEL
E E					(WITH TYPE A)	F	œ	AUDIO STRG SW (
			Connector	Type	TH12FW-NH	:		HEALEU SLEEHIN
H.S.			Connector	Color	WHITE	F	R/N	HORN SW - (WITHO STEERING M
21	2 3 4 5 22 23 24 25	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 5 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	F			12	۵	AUDIO STRG SW GN HEATED STEERIN
			H.S.			13	B√	ASCD GND -(WITH STEERING W
Terminal	Color of	Signal Name			46 45 44 43 42 41 52 51 50 49 48 47	14	œ	AUDIO STRG SW I (WITHOUT HEATEI WHEEI
- No.	B	GND/STRG/SATELLITE SW GND)						
•								
۱ m	.	-	Terminal	Color of	Signal Name			
4	1	1	2		10			
2	1	1	14	≥ 0	IGN			
9			7	5				

NAVIGATION WITH AMPLIFIER CONNECTORS

ILL CONT OUTPUT	CAN-L	CAN-H	G	FUEL SENSOR	1	I	M CAN-L	M CAN-H	
GR	٩	٦	8	BR/Y	'	-	P	SB	
44	45	46	47	48	49	50	51	52	

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

h	7	7
	80	12
	თ	13
50	10	4
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	_	_	_	_	_	_						
Signal Name	ASCD GND -(WITH HEATED STEERING WHEEL)	AUDIO STRG SW REMOTE B - (WITH HEATED STEERING WHEEL)	ILL (-) - (WITHOUT HEATED STEERING WHEEL)	AUDIO STRG SW REMOTE A - (WITH HEATED STEERING WHEEL)	ASCD SW - (WITHOUT HEATED STEERING WHEEL)	ASCD SW - (WITH HEATED STEERING WHEEL)	AUDIO STRG SW REMOTE A - (WITHOUT HEATED STEERING WHEEL)	AUDIO STRG SW GND - (WITH HEATED STEERING WHEEL)	HORN SW - (WITHOUT HEATED STEERING WHEEL)	AUDIO STRG SW GND -(WITHOUT HEATED STEERING WHEEL)	ASCD GND -(WITHOUT HEATED STEERING WHEEL)	AUDIO STRG SW REMOTE B - (WITHOUT HEATED STEERING
Color of Wire	ΒЛ	В	GR	٩	G/Y	GV	d	в	R/W	в	ΒЛ	В
Terminal No.	7	8	œ	ი	6	10	10	1	1	12	13	14

NAVIGATION WITH AMPLIFIER [NAVIGATION WITH AMPLIFIER]

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			27G	Г
Connector No		M31	28G	G/B
Connector Na	e	WIRE TO WIRE	29G	G/B
Connector Typ	e	TH80FW-CS16-TM4	30G	BR/Y
Connector Co	lor	WHITE	31G	æ
			32G	æ
1 THE			33G	٨L
H.S.		[34G	ß
		1G 2G 3G 4G ^{5G}	35G	G/R
		6G 7G 8G 9G 10G	36G	ß
			37G	MA
	÷	(6126136146156166176186196206216	38G	BB
		0000002002002002002002002002002002	39G	BR
		16326336346356366376386396406416	40G	1
		42G43G44G45G46G47G48G49G50G	41G	R/G
	1.00	16526536546556566576586556660616	42G	0
		620630640650660670686690700	43G	g
		IG72G/33G74G/75G/76G/77G/78G/79G/80G/81G	44G	RN
		82G 83G 84G 85G 86G 87C 88G 89G 90G	45G	σ
			46G	P
		91G 92G 93G 94G 95G	47G	œ
			48G	>
			564	' {
			206	E 4
			5 05	r .
Terminal C	olor of	Signal Name	526	- 3
No	wire)	520	
ā	σ	TO ENGINE ROOM HARNESS	240	
2G	B/B	TO ENGINE ROOM HARNESS	55G	σ
3G	>	TO ENGINE ROOM HARNESS	56G	>
4G	BR/W	TO ENGINE ROOM HARNESS	57G	>
5G	BR	TO ENGINE ROOM HARNESS	58G	B
6G	R/W	TO ENGINE ROOM HARNESS	59G	B
7G	>	TO ENGINE ROOM HARNESS	90G	B
8G	g	TO ENGINE ROOM HARNESS	61G	0
96	œ	TO ENGINE ROOM HARNESS	62G	8
10G	M	TO ENGINE ROOM HARNESS	63G	0
11G	R/G	TO ENGINE ROOM HARNESS	64G	۲Ŵ
12G	W/B	TO ENGINE ROOM HARNESS	65G	W/R
13G	BR	TO ENGINE ROOM HARNESS	999	BB
14G	Y/B	TO ENGINE ROOM HARNESS	67G	0
15G	GW	TO ENGINE ROOM HARNESS	686	
16G	σ	TO ENGINE ROOM HARNESS	969 1	≻ .
17G	0	TO ENGINE ROOM HARNESS	70G	-
18G	G√	TO ENGINE ROOM HARNESS	71G	MA
19G	٨X	TO ENGINE ROOM HARNESS	72G	S
20G	G∖	TO ENGINE ROOM HARNESS	73G	SHIELI
21G	ВY	TO ENGINE ROOM HARNESS	74G	≥
22G	G/R	TO ENGINE ROOM HARNESS	75G	œ
23G	Y/R	TO ENGINE ROOM HARNESS	76G	R/G
24G	G/B	TO ENGINE ROOM HARNESS	77G	B
25G	RW	TO ENGINE ROOM HARNESS	78G	•
26G	œ	TO ENGINE ROOM HARNESS	561	'

27G	ГG	TO ENGINE ROOM HARNESS
28G	G/B	TO ENGINE ROOM HARNESS
29G	G/B	TO ENGINE ROOM HARNESS
30G	BRV	TO ENGINE ROOM HARNESS
31G	œ (TO ENGINE ROOM HARNESS
32G	щ	TO FUGINE ROOM HARNESS
336	20	TO ENGINE POOM HARNESS
356	G/B	TO ENGINE ROOM HABNESS
36G	SB	TO ENGINE ROOM HARNESS
37G	R/W	TO ENGINE ROOM HARNESS
38G	BR	TO ENGINE ROOM HARNESS
39G	BR	TO ENGINE ROOM HARNESS
40G	1	TO ENGINE ROOM HARNESS
41G	R/G	TO ENGINE ROOM HARNESS
42G	0	TO ENGINE ROOM HARNESS
43G	G	TO ENGINE ROOM HARNESS
44G	RN	TO ENGINE ROOM HARNESS
45G	G	TO ENGINE ROOM HARNESS
46G	PG	TO ENGINE ROOM HARNESS
47G	ж	TO ENGINE ROOM HARNESS
48G	W	TO ENGINE ROOM HARNESS
49G	ī	TO ENGINE ROOM HARNESS
50G	BR	TO ENGINE ROOM HARNESS
51G	В	TO ENGINE ROOM HARNESS
52G	L	TO ENGINE ROOM HARNESS
53G	W	TO ENGINE ROOM HARNESS
54G	W	TO ENGINE ROOM HARNESS
55G	5	TO ENGINE ROOM HARNESS
56G	W	TO ENGINE ROOM HARNESS
57G	7	TO ENGINE ROOM HARNESS
58G	BG	TO ENGINE ROOM HARNESS
59G	BG	TO ENGINE ROOM HARNESS
60G	BG	TO ENGINE ROOM HARNESS
61G	0	TO ENGINE ROOM HARNESS
62G	W	TO ENGINE ROOM HARNESS
63G	0	TO ENGINE ROOM HARNESS
64G	WL	TO ENGINE ROOM HARNESS
65G	W/R	TO ENGINE ROOM HARNESS
66G	BG	TO ENGINE ROOM HARNESS
67G	0	TO ENGINE ROOM HARNESS
68G	в	TO ENGINE ROOM HARNESS
69G	Y	TO ENGINE ROOM HARNESS
70G	L	TO ENGINE ROOM HARNESS
71G	R/W	TO ENGINE ROOM HARNESS
72G	L/W	TO ENGINE ROOM HARNESS
73G	SHIELD	TO ENGINE ROOM HARNESS
74G	W	TO ENGINE ROOM HARNESS
75G	ж	TO ENGINE ROOM HARNESS
76G	R/G	TO ENGINE ROOM HARNESS
77G	BG	TO ENGINE ROOM HARNESS
78G	٩.	TO ENGINE ROOM HARNESS
79G	,	TO ENGINE ROOM HARNESS

			_	_						_						_				
TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS
ж	L	œ			M	B/B	M	σ	٩	σ	Ч	٨٧٨	BR	8	ŋ	œ	н	W/B	н	GR/W
80G	81G	82G	83G	84G	85G	86G	87G	88G	89G	90G	91G	92G	93G	94G	95G	96G	97G	98G	99G	100G
	80G R TO ENGINE ROOM HARNESS	80G R TO ENGINE ROOM HARNESS 81G L TO ENGINE ROOM HARNESS	80G R TO ENGINE ROOM HARNESS 81G L TO ENGINE ROOM HARNESS 82G R TO ENGINE ROOM HARNESS	80c R T C ENGINE FOOM HARNESS 81G L TO ENGINE FOOM HARNESS 82G R TO ENGINE FOOM HARNESS 85G L TO ENGINE FOOM HARNESS	80G R T 0 ENGINE FOOM HARNESS 81G L T0 ENGINE ROOM HARNESS 82G R T0 ENGINE ROOM HARNESS 82G L T0 ENGINE ROOM HARNESS 84G L T0 ENGINE ROOM HARNESS	80G R T 0 ENGINE ROOM HARNESS 81G L T0 ENGINE ROOM HARNESS 82G R T0 ENGINE ROOM HARNESS 82G L T0 ENGINE ROOM HARNESS 84G L T0 ENGINE ROOM HARNESS 84G L T0 ENGINE ROOM HARNESS 84G W T0 ENGINE ROOM HARNESS	80G R TO ENGINE ROOM HARNESS 81G L TO ENGINE ROOM HARNESS 82G R TO ENGINE ROOM HARNESS 82G L TO ENGINE ROOM HARNESS 84G L TO ENGINE ROOM HARNESS 84G L TO ENGINE ROOM HARNESS 84G L TO ENGINE ROOM HARNESS 86G B/R TO ENGINE ROOM HARNESS	80G R T CENGINE FOOM HARNESS 81G L TO ENGINE FOOM HARNESS 82G L TO ENGINE FOOM HARNESS 83G L TO ENGINE FOOM HARNESS 84G W TO ENGINE FOOM HARNESS	80c R T DENGINE FOOM HARNESS 81G L TO ENGINE FOOM HARNESS 82G R TO ENGINE FOOM HARNESS 82G L TO ENGINE FOOM HARNESS 84G W TO ENGINE FOOM HARNESS 87G W TO ENGINE FOOM HARNESS 87G W TO ENGINE FOOM HARNESS 87G W TO ENGINE FOOM HARNESS	80G R T DE NGINE ROOM HARNESS 81G L TO ENGINE ROOM HARNESS 82G R TO ENGINE ROOM HARNESS 82G L TO ENGINE ROOM HARNESS 84G L TO ENGINE ROOM HARNESS 84G L TO ENGINE ROOM HARNESS 86G B/H TO ENGINE ROOM HARNESS 86G B/H TO ENGINE ROOM HARNESS 86 B/H TO ENGINE ROOM HARNESS 86 G TO ENGINE ROOM HARNESS 86 G TO ENGINE ROOM HARNESS 86 G TO ENGINE ROOM HARNESS 86G G TO ENGINE ROOM HARNESS 86G G TO ENGINE ROOM HARNESS	80G R T DENGINE FROM HARNESS 81G L TO ENGINE FROM HARNESS 82G R TO ENGINE FROM HARNESS 84G L TO ENGINE FROM HARNESS 86G W TO ENGINE ROM HARNESS 86G B/R TO ENGINE ROM HARNESS 86G B/R TO ENGINE ROM HARNESS 86G G TO ENGINE ROM HARNESS 86G P TO ENGINE ROM HARNESS 80G G TO ENGINE ROM HARNESS	806 R T CENGINE FOOM HARNESS 81G L TO ENGINE FOOM HARNESS 82G L TO ENGINE FOOM HARNESS 84G W TO ENGINE FOOM HARNESS 86G W TO ENGINE ROOM HARNESS 86G G TO ENGINE ROOM HARNESS 86G G TO ENGINE ROOM HARNESS 86G G TO ENGINE ROOM HARNESS 96G P TO ENGINE ROOM HARNESS 91G P TO ENGINE ROOM HARNESS	80G R T DENGINE FOOM HARNESS 81G L TO ENGINE FOOM HARNESS 82G R TO ENGINE FOOM HARNESS 82G L TO ENGINE FOOM HARNESS 84G W TO ENGINE FOOM HARNESS 84G W TO ENGINE FOOM HARNESS 84G G TO ENGINE FOOM HARNESS 84G P TO ENGINE FOOM HARNESS 84G P TO ENGINE FOOM HARNESS 94G P TO	802 R T DENGINE FOOM HARNESS 81G L TO ENGINE FOOM HARNESS 82G R TO ENGINE ROOM HARNESS 82G L TO ENGINE ROOM HARNESS 84G W TO ENGINE ROOM HARNESS 86G BA TO ENGINE ROOM HARNESS 86G G TO ENGINE ROOM HARNESS 86G P TO ENGINE ROOM HARNESS 86G G TO ENGINE ROOM HARNESS 90G G TO ENGINE ROOM HARNESS 91G P TO ENGINE ROOM HARNESS 91G P TO ENGINE ROOM HARNESS 92G V TO ENGINE ROOM HARNESS 92G M TO ENGINE ROOM HARNESS 92G M TO ENGINE ROOM HARNESS 92G M TO ENGINE ROOM HARNESS 92G B TO ENGINE ROOM HARNESS	802 R TO ENGINE FOOM HARNESS 81G L TO ENGINE FOOM HARNESS 82G L TO ENGINE FOOM HARNESS 83G L TO ENGINE FOOM HARNESS 84G L TO ENGINE FOOM HARNESS 84G L TO ENGINE FOOM HARNESS 86G W TO ENGINE FOOM HARNESS 86G B/R TO ENGINE FOOM HARNESS 86G B/R TO ENGINE FOOM HARNESS 86G G TO ENGINE ROOM HARNESS 86G G TO ENGINE ROOM HARNESS 86G G TO ENGINE ROOM HARNESS 90G G TO ENGINE ROOM HARNESS 90G G TO ENGINE ROOM HARNESS 90G G TO ENGINE ROOM HARNESS 91G P TO ENGINE ROOM HARNESS 92G G TO ENGINE ROOM HARNESS 94G B TO ENGINE ROOM HARNESS	806 R T 0 ENGINE FOOM HARNESS 81G L T 0 ENGINE FOOM HARNESS 82G R T 0 ENGINE FOOM HARNESS 84G L T 0 ENGINE FOOM HARNESS 86G B/H T 0 ENGINE FOOM HARNESS 86G G T 0 ENGINE FOOM HARNESS 86G G T 0 ENGINE FOOM HARNESS 96G G T 0 ENGINE FOOM HARNESS 91G B T 0 ENGINE FOOM HARNESS 91G B T 0 ENGINE FOOM HARNESS 91G B T 0 ENGINE FOOM HARNESS 91G	80G R T DENGINE FOOM HARNESS 81G L T DENGINE FOOM HARNESS 82G R T DENGINE FOOM HARNESS 83G L T DENGINE FOOM HARNESS 84G W T DENGINE FOOM HARNESS 84G W T DENGINE FOOM HARNESS 84G W T DENGINE FOOM HARNESS 84G G T DENGINE FOOM HARNESS 94G P T DENGINE FOOM HARNESS 94G P T DENGINE FOOM HARNESS 94G P T DENGINE FOOM HARNESS 94G G T D	802 R T DENGINE ROOM HARNESS 81G L T DENGINE ROOM HARNESS 82G L T DENGINE ROOM HARNESS 82G L T DENGINE ROOM HARNESS 84G L T DENGINE ROOM HARNESS 84G L T DENGINE ROOM HARNESS 84G L T DENGINE ROOM HARNESS 86G B/H T DENGINE ROOM HARNESS 81G W T DENGINE ROOM HARNESS 81G G T DENGINE ROOM HARNESS 91G G T DENGINE ROOM HARNESS 91G P T DENGINE ROOM HARNESS 91G P T DENGINE ROOM HARNESS 94G B T	806 R T CENGINE ROOM HARNESS 81G L T CENGINE ROOM HARNESS 82G R T CENGINE ROOM HARNESS 83G L T CENGINE ROOM HARNESS 84G L T DENGINE ROOM HARNESS 84G P T DENGINE ROOM HARNESS 84G P T DENGINE ROOM HARNESS 84G P T DENGINE ROOM HARNESS 94G P T D	302 R T DENGINE FOOM HARNESS 815 L T DENGINE FOOM HARNESS 8243 L T DENGINE FOOM HARNESS 8346 L T DENGINE FOOM HARNESS 8445 L T DENGINE FOOM HARNESS 845 L T DENGINE FOOM HARNESS 846 L T DENGINE FOOM HARNESS 856 B/H T DENGINE FOOM HARNESS 856 B/H T DENGINE FOOM HARNESS 856 B/H T DENGINE FOOM HARNESS 856 G T DENGINE FOOM HARNESS 956 R T DENGINE FOOM HARNESS 956 R T DENGINE FOOM HARNESS 956 R

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			22A	σ	TO BODY NO. 2 HARNESS	75A	SHIELD	TO BODY NO. 2 HARNESS
Connector r	ġ	M30	23A	>	TO BODY NO. 2 HARNESS	76A	œ	TO BODY NO. 2 HARNESS
Connector N	lame	WIRE TO WIRE	24A	_	TO BODY NO. 2 HARNESS	77A	_	TO BODY NO. 2 HARNESS
Connector 1	ype	TH80FDGY-CS16-TM4	25A	,	TO BODY NO. 2 HARNESS	78A	SHIELD	TO BODY NO. 2 HARNESS
Connector C	Color	GRAY	26A	GR	TO BODY NO. 2 HARNESS	79A	GR	TO BODY NO. 2 HARNESS
			27A	ГG	TO BODY NO. 2 HARNESS	80A	>	TO BODY NO. 2 HARNESS
14HH			28A	ΓC	TO BODY NO. 2 HARNESS	81A	ж	TO BODY NO. 2 HARNESS
ЗН			29A	GR	TO BODY NO. 2 HARNESS	82A	SHIELD	TO BODY NO. 2 HARNESS
5			30A	•	TO BODY NO. 2 HARNESS	83A	œ	TO BODY NO. 2 HARNESS
		1A 2A 3A 4A 3A	31A	W/R	TO BODY NO. 2 HARNESS	84A	0	TO BODY NO. 2 HARNESS
		04 / / 04 34 104	32A	G/R	TO BODY NO. 2 HARNESS	85A	SHIELD	TO BODY NO. 2 HARNESS
		11 12 13 13 14 15 15 15 15 13 13 13 13 15 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	33A	,	TO BODY NO. 2 HARNESS	86A	>	TO BODY NO. 2 HARNESS
		22A 23A 24A 25A 26A 27A 26A 29A 30A	34A	SHIELD	TO BODY NO. 2 HARNESS	87A	•	TO BODY NO. 2 HARNESS
	1	114 274 334 344 354 354 335 334 304 404 414	35A	٩	TO BODY NO. 2 HARNESS	88A	×	TO BODY NO. 2 HARNESS
	2	42A 43A 44A 45A 46A 46A 48A 43A 48A 50A	36A	•	TO BODY NO. 2 HARNESS	89A	SHIELD	TO BODY NO. 2 HARNESS
			37A	'	TO BODY NO. 2 HARNESS	90A	σ	TO BODY NO. 2 HARNESS
		5 1A 52A 53A 54A 50A 50A 50A 50A 53A 59A 50A 51A 67a 67a 64a 65a 65a 65a 65a 66a 70a	38A	R/B	TO BODY NO. 2 HARNESS	91A	W/L	TO BODY NO. 2 HARNESS
			39A	G/O	TO BODY NO. 2 HARNESS	92A	BR	TO BODY NO. 2 HARNESS
		71A 72A 73A 74A 75A 76A 77A 78A 79A 80A 81A	40A	>	TO BODY NO. 2 HARNESS	93A	Ŋ	TO BODY NO. 2 HARNESS
		hine haso haso haso haso haso haso haso haso	41A	SHIELD	TO BODY NO. 2 HARNESS	94A	RL	TO BODY NO. 2 HARNESS
		91A G74 G44 954	42A	SHIELD	TO BODY NO. 2 HARNESS	95A	BB	TO BODY NO. 2 HARNESS
		97A 98A 99A 100A	43A	œ	TO BODY NO. 2 HARNESS	96A	æ	TO BODY NO. 2 HARNESS
			44A	IJ	TO BODY NO. 2 HARNESS	97A	P	TO BODY NO. 2 HARNESS
			45A	,	TO BODY NO. 2 HARNESS	98A	BV	TO BODY NO. 2 HARNESS
			46A	'	TO BODY NO. 2 HARNESS	966	ν	TO BODY NO. 2 HARNESS
			474	>	TO BODY NO 2 HABNESS	100A	BRW	TO BODY NO 2 HABNESS
Tominol	o lor of		VIL	- 10				
No.	Wire	Signal Name	48A 49A	M/H	TO BODY NO. 2 HARNESS TO RODY NO 2 HARNESS			
1A	>	TO BODY NO. 2 HARNESS	50A		TO BODY NO. 2 HARNESS			
2A	FG	TO BODY NO. 2 HARNESS	51A		TO BODY NO. 2 HARNESS			
3A	>	TO BODY NO. 2 HARNESS	52A		TO BODY NO. 2 HARNESS			
4A	SB	TO BODY NO. 2 HARNESS	53A		TO BODY NO. 2 HARNESS			
5A	1	TO BODY NO. 2 HARNESS	54A	'	TO BODY NO. 2 HARNESS			
6A	BG	TO BODY NO. 2 HARNESS -	55A		TO BODY NO. 2 HARNESS			
		(WITH CLIMATE CONTROLLED	56A	,	TO BODY NO. 2 HARNESS			
βA	9	TO BODY NO 2 HABNESS	57A		TO BODY NO. 2 HARNESS			
		(WITHOUT CLIMATE	58A	'	TO BODY NO. 2 HARNESS			
;			59A	ı	TO BODY NO. 2 HARNESS			
¥, 5	× (60A	G/W	TO BODY NO. 2 HARNESS			
48 1	<u>ا</u> م	IO BOUT NO. 2 HAHNESS	61A	ı	TO BODY NO. 2 HARNESS			
9A	8	IO BODY NO. 2 HARNESS	62A	1	TO BODY NO. 2 HARNESS			
10A	>	TO BODY NO. 2 HARNESS	63A	1	TO BODY NO. 2 HARNESS			
11A	œ	TO BODY NO. 2 HARNESS	64A		TO BODY NO. 2 HARNESS			
12A	В	TO BODY NO. 2 HARNESS	65A		TO BODY NO. 2 HARNESS			
13A	σ	TO BODY NO. 2 HARNESS	66A	,	TO BODY NO. 2 HARNESS			
14A	R/G	TO BODY NO. 2 HARNESS	67A	,	TO BODY NO. 2 HARNESS			
15A	0	TO BODY NO. 2 HARNESS	68A	,	TO BODY NO 2 HABNESS			
16A	O/L	TO BODY NO. 2 HARNESS	400	2				
17A	-	TO BODY NO. 2 HARNESS	69A	H/A	IO BODY NO. 2 HAHNESS			
18A	 >	TO BODY NO. 2 HARNESS	70A	R/G	TO BODY NO. 2 HARNESS			
19A	B/W	TO BODY NO. 2 HARNESS	71A	· :	TO BODY NO. 2 HARNESS			
20A	BR/Y	TO BODY NO. 2 HARNESS	A27	3	10 BODY NO. 2 HARNESS			
21A	BG	TO RODY NO. 2 HARNESS	73A	σ	TO BODY NO. 2 HARNESS			
	5		74A	×	TO BODY NO. 2 HARNESS			

NAVIGATION WITH AMPLIFIER CONNECTORS

Revision: March 2016

2016 Titan NAM

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[NAVIGATION WITH AMPLIFIER]

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< WIRING DIAGRAM >



Terminal No. Color of Wire Signal Name 21 LG M.CAN2-H 23 L M.CAN2-H 24 - - 25 - - 26 - - 27 - - 28 - - 29 - - 29 - - 29 - - 29 - - 20 V AUX GND 21 GR AUX CRID 22 - - 29 LU CAMERA CRID 31 GR AUX CRID 32 LU CAMERA CRID 33 SHIELD COMP-WITH REAR NEW 35 RAW COMP-WITH REAR NEW 36 G COMP-CAMERAJ 37 CS CAMERAJ 38 RAW COMP-WITH REAR NEW 39 LG COMP-CAMERAJ																											
Terminal Color of Wire 21 List 21 List 23 L 23 L 23 L 24 L 25 L 27 L 28 L 29 L 27 L 28 L 29 L 29 L 31 R 32 L 33 L 34 L 35 R 36 R 37 C 38 R 39 R 37 C 38 L 39 R 31 A 41 S 42 S 44 S 44 G	Signal Name	M CAN2-L	M CAN2-H	MR OUTPUT	1	1	1	1	REVERSE SIGNAL	1	AUX L	AUX GND	AUX R	CAMERA GND	CAMERA ON	COMP- (WITH AROUND VIEW CAMERA)	COMP- (WITH REAR VIEW CAMERA)	COMP+ (WITH AROUND VIEW CAMERA)	COMP+ (WITH REAR VIEW CAMERA)	IGN	M CAN1-L	M CAN1-H	AUX SHIELD	MIC GND	MIC VCC(WITHOUT TELEMATICS)	MIC SIGNAL	(-) ILLE
Terminal Ro. 21 22 23 24 25 26 27 28 29 28 29 28 28 28 28 28 38	Color of Wire	ΓC	SB	-	1				G/W		>	GR	σ	LW	-	SHIELD	R/W	G	œ	G/R	ГG	SB	SHIELD	SHIELD	œ	M	GR
	Terminal No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	35	36	36	37	38	39	40	41	42	43	44

NAVIGATION WITH AMPLIFIER CONNECTORS

	l			
		28J	_	TO BODY HARNE
T		29J	G/O	TO BODY HARNE
		30.1	SB	TO BODY HARNE
		31J	ГG	TO BODY HARNE
		32J	œ	TO BODY HARNE
		33.1	BG	TO BODY HARNE
		34J	7	TO BODY HARNE
	I	35J	٩	TO BODY HARNE
		36.1	G/R	TO BODY HARNE
	I	37J	P	TO BODY HARNE
		38J	ß	TO BODY HARNE
1		39.1	7	TO BODY HARNE
-1	Γ	40/	SB	TO BODY HARNE
		41J	_	TO BODY HARNE
		42.1		TO BODY HARNE
		43.1	×	TO BODY HARNE
ſ		44J	BB	TO BODY HARNE
_		45J	BG	TO BODY HARNE
		46J	٩	TO BODY HARNE
		47J	0	TO BODY HARNE
		48.1	>	TO BODY HARNE
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NAVIGATION WITH AMPLIFIER

< WIRING DIAGRAM >

[NAVIGATION WITH AMPLIFIER]

Revision: March 2016



< WIRING DIAGRAM >

SHIELD

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Signal Name

Color of Wire

Terminal No.

BAT WOOFER 1+ WOOFER 2+

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Revision: March 2016

2016 Titan NAM

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NAVIGATION WITH AMPLIFIER

< WIRING DIAGRAM >

[NAVIGATION WITH AMPLIFIER]

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R5	MICROPHONE	TK04FW	WHITE	1 2 3 4	
Connector No.	Connector Name	Connector Type	Connector Color	日 H.S.	
R1	WIRE TO WIRE	TH32MW-NH	WHITE	4 5 6 7 8 9 10 11 12 13 14 15 6 9 20 21 22 23 24 25 26 27 28 26 30 51 32	
Connector No.	Connector Name	Connector Type	Connector Color	田田 H.S.	

	• • •	1 2 3 4		Signal Name	MIC +	MIC GROUND	1	MIC V +
				Color of Wire	M	SHIELD	1	в
H.S.				Terminal No.	-	2	3	4
ſ	16	32]					
	4	33						
	13 1	33						
	12	28		0	ss	ss	SS	SS
	7	27		j a	IN.	ШЩ.	N.	SNE
	10	26		ž	H	Ŧ	HA	HA
	თ	25		Jua	AIN	AIN	AIN	IAIN
V	∞	24		Sig	N N	N N	N	ΜO
	~	12			Ι÷.	16	F	ι÷.

Color of SHIELD Wire

Terminal ŝ Signal Name SAT ANT SAT SHIELD

Color of Wire B

Terminal No.

0

1	MIC V +	316	FRONT PILLAR SPEAKER	rko2MBR-P	BROWN	
ı	œ	No.	Name	Type 1	Color E	
8	4	Connector	Connector	Connector	Connector	ł
					1	

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nnector No. R108	nnector Name WIRE TO WIRE	nnector Type FAKRA CODING C	nnector Color DINK
Connec	Connec	Connec	Connor

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G/R G/W Y/V

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Y/R

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TO MAIN HARNESS TO MAIN HARNESS

Signal Name	TO MAIN HARNESS	
Color of Wire	в	
Terminal No.	۰	

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TO MAIN HARNESS

SHIELD

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SATELLITE ANTENNA

R109

GT16C-1PP-HU (B) GREEN

Connector Type Connector Color Connector Name Connector No.

BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000013024693

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[NAVIGATION WITH AMPLIFIER]

OVERALL SEQUENCE



DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer. Verify relation between the symptom and the condition when the symptom is detected. Refer to <u>AV-264</u>, "<u>Symptom Table</u>".

>> GO TO 3.

3. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

Is malfunctioning part detected?

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

NO >> GO TO 2.

4.REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.

2. Reconnect parts or connectors disconnected during Diagnostic Procedure.

>> GO TO 5.

5.FINAL CHECK

Refer to confirmed symptom in step 2, and make sure that the symptom is not detected.

Does the symptom occur?

YES >> GO TO 2.

NO >> Inspection End.

ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT	А
ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Description	В
BEFORE REPLACEMENT When replacing AV control unit, save or print current vehicle specification with CONSULT configuration before replacement. NOTE: If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replac- ing AV control unit	C
AFTER REPLACEMENT CAUTION: When replacing AV control unit, you must perform "After Replace ECU" with CONSULT. • Complete the procedure of "After Replace ECU" in order. • If you set incorrect "After Replace ECU", incidents might occur. • Configuration is different for each vehicle model. Confirm configuration of each vehicle model.	E
ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT : Work Procedure	
INFOID:000000013024695	G
1. SAVING VEHICLE SPECIFICATION	
CONSULT Enter "Re/Programming, Configuration" and perform "Before Replace ECU" to save or print current vehicle specification.	Н
NOTE: If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replac- ing AV control unit.	I
>> GO TO 2.	J
2. REPLACE AV CONTROL UNIT	
Replace AV control unit. Refer to AV-277, "Removal and Installation".	K
>> GO TO 3.	1
3.WRITING VEHICLE SPECIFICATION	
 CONSULT Enter "Re/Programming, Configuration". If "Before Replace ECU" operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press "Confirm" to write vehicle specification. Refer to AV-212. "CONFIGURATION (AV CONTROL UNIT)." Work Procedure" 	Μ
 If "Before Replace ECU" operation was not performed, select "After Replace ECU" or "Manual Configura- tion" to write vehicle specification. Refer to <u>AV-212, "CONFIGURATION (AV CONTROL UNIT): Work Pro-</u> <u>cedure"</u>. 	AV
>> GO TO 4.	0
4. REGISTER AV CONTROL UNIT	
Perform AV control unit registration. Refer to <u>AV-213</u> , "REGISTRATION (AV CONTROL UNIT) : Work Proce- dure (Registration Code)".	Р
>> GO TO 5.	
5. OPERATION CHECK	

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

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>> Work End. CONFIGURATION (AV CONTROL UNIT)

CONFIGURATION (AV CONTROL UNIT) : Description

INFOID:000000013024696

Vehicle specification needs to be written with CONSULT because it is not written after replacing AV control unit.

Configuration has three functions as follows:

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

CAUTION:

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

CONFIGURATION (AV CONTROL UNIT) : Work Procedure

INFOID:000000013024697

1.WRITING MODE SELECTION

CONSULT

Select "Reprogramming, Configuration" of "MULTI AV".

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

2.PERFORM "SAVED DATA LIST"

CONSULT

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

>> Work End.

3. PERFORM "AFTER REPLACE ECU" OR "MANUAL CONFIGURATION"

CONSULT

- 1. Select "After Replace ECU" or "Manual Configuration".
- 2. Identify the correct model and configuration list. Refer to <u>AV-213. "CONFIGURATION (AV CONTROL</u> <u>UNIT): Configuration List"</u>.
- Confirm and/or change setting value for each item.
 CAUTION: Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.
- 4. Select "Next". CAUTION:

Make sure to select "Next", confirm each setting value and press "OK" even if the indicated configuration of brand new AV control unit is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model can not be memorized.

5. When "Completed", select "End".

>> GO TO 4.

< BASIC INSPECTION >

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INFOID:000000013024698

4. OPERATION CHECK

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

>> Work End.

CONFIGURATION (AV CONTROL UNIT) : Configuration List

CAUTION:

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

Items	1	NOTE	
-	Setting value		
SOUND SYSTEM	BASE ⇔ BOSE	BASE: Without BOSE audio BOSE: With BOSE audio	
CAMERA SYSTEM	NONE/AVM ⇔ REAR CAMERA	NONE/AVM: With around view monitor REAR CAMERA: With rear view camera	
⇒: Items which confirm veh REGISTRATION	icle specifications (AV CONTROL UNIT)		
REGISTRATION	(AV CONTROL UNIT) : I		ID:000000013024699
AFTER REPLACEMI If the AV control unit is the registration code.	ENT (REGISTRATION COD replaced with a new AV contro	E) ol unit, the new AV control unit must be regist	tered using
f the new AV control	unit registration code is not	registered, the "APPS" mode will not func	tion.
AFTER REPLACEM	ENT (SATELLITE RADIO RE	EGISTRATION)	
f the AV control unit is Satellite Radio, the nev	s replaced with a new AV contr w AV control unit must be regist	rol unit and the customer has an active subs tered with the updated subscription informatio	cription for
REGISTRATION	(AV CONTROL UNIT) : \	Nork Procedure (Registration Code	e)
		INFOI	ID:0000000013024700
I.REGURD REGIST	RATION CODE FOR REPLACE	EMENT AV CONTROL UNIT	
1. Refer to the replace	RATION CODE FOR REPLACE	EMENT AV CONTROL UNIT	
1. Refer to the replac	RATION CODE FOR REPLACE	EMENT AV CONTROL UNIT ocated on the top of the AV control unit.	
1. Refer to the replac	RATION CODE FOR REPLACE ement AV control unit's label lo Manufactured by: BOSCH	EMENT AV CONTROL UNIT	
1. Refer to the replac	RATION CODE FOR REPLACE cement AV control unit's label lo Manufactured by: BOSCH XXXXXXX XXXX PART NO. 7 612 051 260	EMENT AV CONTROL UNIT pocated on the top of the AV control unit. XXXXXX X XXXX XXX XXX XXX Production Date: 12.2013 NISSAN PART NO. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
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1. Refer to the replac	RATION CODE FOR REPLACE cement AV control unit's label lo Manufactured by: BOSCH XXXXXX XXXX PART NO. 7 612 051 260 LASER CLASS 1 IC: 9595A - LCN2K70A00 FCC ID : YBN - LCN2K70A00	EMENT AV CONTROL UNIT ocated on the top of the AV control unit. Image: state of the top of the AV control unit. Image: state of the top of the AV control unit. Image: state of the top of the AV control unit. Image: state of the top of the AV control unit. Image: state of the top of the AV control unit. Image: state of the top of the AV control unit. Image: state of the top of the AV control unit. Image: state of the top of the top of the AV control unit. Image: state of top of the top of the AV control unit. Image: state of top of the top of the AV control unit. Image: state of top of the top of top of the top of the top of top	
1. Refer to the replac	ATION CODE FOR REPLACE cement AV control unit's label lo Manufactured by: BOSCH ART NO. 7 612 051 260 LASER CLASS 1 IC: 9595A - LCN2K70A00 FCC ID : YBN - LCN2K70A00 FCC ID : YBN - LCN2K70A00 This device complies with Part 15 of the FCC with RSS - 210 of Industry Canada. Operation is subject to the following two con (1) this device may not cause harmful interfer (2) this device may not cause harmful interfer (2) this device may not cause harmful interfer (2) this device may not cause harmful interference that may cause undesi	EMENT AV CONTROL UNIT cated on the top of the AV control unit. Image: Constraint of the control unit. Image: Control unit. <t< td=""><td></td></t<>	

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[NAVIGATION WITH AMPLIFIER]

 Create a registration code to supply to NISSAN Owner Services by combining the last 9 digits of the NIS-SAN PART NO. (1) and the first 7 digits of the bar code number (2).



3. Record the registration code.

>> GO TO 2.

2.REGISTER REPLACEMENT AV CONTROL UNIT

Register the replacement AV control unit by contacting NISSAN Owner Services. Refer to TSB.

>> GO TO 3.

3.OPERATION CHECK

Verify that the AV control unit "APPS" function operates normally.

>> Work End.

REGISTRATION (AV CONTROL UNIT) : Work Procedure (Satellite Radio Registration)

Contact SiriusXM Dealer Support at 1-800-852-9696 to confirm the subscription is active. If the subscription is confirmed, perform the following procedure:

- 1. Park the vehicle outside.
- 2. Turn ignition ON.
- 3. Turn the radio ON and tune to channel "O" on the XM source.
- 4. Write down the 8-digit SiriusXM Radio ID displayed on the screen.
- 5. Tune to channel "1" on the XM source and leave the radio ON.
- 6. If activating NavTraffic and/or NavWeather/Travel Link Weather, press the APPS button and select Traffic Info or Weather Info to display the respective screen.

< P	INSPECTION AND ADJUSTMENT (ASIC INSPECTION > [NAVIGATION WITH AMPLIFIER]	
7.	Activate service at www.siriusxm.com/refresh or by calling SiriusXM Dealer Support at 1-800-852-9696.	
8. - -	The service should be activated within 30 minutes. For satellite radio, audio will broadcast when tuned to channels other than "1". For satellite traffic and/or weather, traffic/weather information will display on the Traffic Info/Weather Info screen, or the screen will indicate the system is active.	
9.	Turn ignition OFF and wait 5 minutes.	
	NOTE: Do not disconnect the battery or pull any fuses during this time.	
10.	Turn ignition ON.	
11.	Check that the activated service is operational.	

AV

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DTC/CIRCUIT DIAGNOSIS U1000 CAN COMM CIRCUIT

DTC Description

INFOID:000000013220031

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-70, "CAN COMMUNICATION SYSTEM : CAN Communica-</u> tion Signal Chart".

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
	CAN COMM CIRCUIT (CAN COMM CIRCUIT)	Diagnosis condition	When ignition switch is ON.	
111000		Signal (terminal)	—	
01000		Threshold	—	
		Diagnosis delay time	_	

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U1000 detected?

- YES >> Proceed to AV-216. "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43. "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013220032

1.PERFORM SELF DIAGNOSTIC RESULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "MULTI AV".
- 4. Check DTC.

Is DTC U1000 detected?

- YES >> Refer to LAN-51, "Trouble Diagnosis Flow Chart".
- NO >> Refer to <u>GI-43, "Intermittent Incident"</u>.
< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Description

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-70, "CAN COMMUNICATION SYSTEM : CAN Communica-</u> tion Signal Chart".

DTC DETECTION LOGIC

U1010 CONTROL UNIT(CAN) [Control unit(CAN)] Diagnosis condition When ignition switch is ON. Signal (terminal) - Threshold - Diagnosis delay time - POSSIBLE CAUSE CAN communication system - FAIL-SAFE - DTC CONFIRMATION PROCEDURE - 1. PERFORM DTC CONFIRMATION PROCEDURE PCONSULT 1. Turn ignition switch ON. 2. Select "Self Diagnostic Result" mode of "MULTI AV". 3. Check DTC. Is DTC U1010 detected? YES >> Proceed to <u>AV-217. "Diagnosis Procedure".</u> NO-1 >> To check malfunction symptom before repair: Refer to <u>GI-43. "Intermittent Incident".</u> NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure	
U1010 CONTROL UNIT(CAN) [Control unit(CAN)] Signal (terminal) - Threshold - Diagnosis delay time - POSSIBLE CAUSE CAN communication system FAIL-SAFE - DTC CONFIRMATION PROCEDURE 1.PERFORM DTC CONFIRMATION PROCEDURE @CONSULT 1. Turn ignition switch ON. 2. Select "Self Diagnostic Result" mode of "MULTI AV". 3. Check DTC. Is DTC U1010 detected? YES YES Proceed to <u>AV-217. "Diagnosis Procedure"</u> . NO-1 NO-2 Confirmation after repair: Inspection End. Diagnosis Procedure #Perform SELF DIAGNOSTIC RESULT @CONSULT 1. Turn ignition switch ON. 2. Frase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV".	F
Image: Control unit(CAN)] Image: Threshold	
	G
POSSIBLE CAUSE CAN communication system FAIL-SAFE 	
CAN communication system FAIL-SAFE DTC CONFIRMATION PROCEDURE 1.PERFORM DTC CONFIRMATION PROCEDURE CONSULT 1. Turn ignition switch ON. 2. Select "Self Diagnostic Result" mode of "MULTI AV". 3. Check DTC. Is DTC U1010 detected? YES >> Proceed to <u>AV-217. "Diagnosis Procedure"</u> . NO-1 >> To check malfunction symptom before repair: Refer to <u>GI-43. "Intermittent Incident"</u> . NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure 1.PERFORM SELF DIAGNOSTIC RESULT CONSULT 1. Turn ignition switch ON. 2. Erase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV".	
FAIL-SAFE _ DTC CONFIRMATION PROCEDURE 1.PERFORM DTC CONFIRMATION PROCEDURE CONSULT 1. Turn ignition switch ON. 2. Select "Self Diagnostic Result" mode of "MULTI AV". 3. Check DTC. Is DTC U1010 detected? YES >> Proceed to <u>AV-217. "Diagnosis Procedure"</u> . NO-1 >> To check malfunction symptom before repair: Refer to <u>GI-43. "Intermittent Incident"</u> . NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure 1.PERFORM SELF DIAGNOSTIC RESULT CONSULT 1. Turn ignition switch ON. 2. Erase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV".	
DTC CONFIRMATION PROCEDURE 1.perFORM DTC CONFIRMATION PROCEDURE CONSULT 1. Turn ignition switch ON. 2. Select "Self Diagnostic Result" mode of "MULTI AV". 3. Check DTC. Is DTC U1010 detected? YES YES > Proceed to <u>AV-217. "Diagnosis Procedure".</u> NO-1 NO-1 > To check malfunction symptom before repair: Refer to <u>GI-43. "Intermittent Incident".</u> NO-2 NO-2 Consult 1.perFORM SELF DIAGNOSTIC RESULT @CONSULT 1. Turn ignition switch ON. 2. Erase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV".	
DTC CONFIRMATION PROCEDURE	
1.PERFORM DTC CONFIRMATION PROCEDURE CONSULT 1. Turn ignition switch ON. 2. Select "Self Diagnostic Result" mode of "MULTI AV". 3. Check DTC. Is DTC U1010 detected? YES >> Proceed to AV-217. "Diagnosis Procedure". NO-1 >> To check malfunction symptom before repair: Refer to GI-43. "Intermittent Incident". NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure NFORE-000001322001 1.PERFORM SELF DIAGNOSTIC RESULT Image: Consult To the switch ON. 2. Erase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV".	
CONSULT Turn ignition switch ON. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. Is DTC U1010 detected? YES >> Proceed to <u>AV-217. "Diagnosis Procedure"</u>. NO-1 >> To check malfunction symptom before repair: Refer to <u>GI-43, "Intermittent Incident"</u>. NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure MFOLD-0000001322001 1. PERFORM SELF DIAGNOSTIC RESULT CONSULT Turn ignition switch ON. Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". 	. [
 Turn ignition switch ON. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. Is DTC U1010 detected? YES >> Proceed to <u>AV-217. "Diagnosis Procedure"</u>. NO-1 >> To check malfunction symptom before repair: Refer to <u>GI-43. "Intermittent Incident"</u>. NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure INFOLD.0000001322000 PERFORM SELF DIAGNOSTIC RESULT CONSULT Turn ignition switch ON. Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". 	0
 2. Select Sell Diagnostic Result mode of MOLTLAV. 3. Check DTC. Is DTC U1010 detected? YES >> Proceed to <u>AV-217</u>, "Diagnosis Procedure". NO-1 >> To check malfunction symptom before repair: Refer to <u>GI-43</u>, "Intermittent Incident". NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure Information symptom Self Diagnostic Result @CONSULT 1. Turn ignition switch ON. 2. Erase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV". 	
Is DTC U1010 detected? YES >> Proceed to <u>AV-217. "Diagnosis Procedure"</u> . NO-1 >> To check malfunction symptom before repair: Refer to <u>GI-43. "Intermittent Incident"</u> . NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure INFOLE-0000001322000 1.PERFORM SELF DIAGNOSTIC RESULT Important in ignition switch ON. 2. Erase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV".	K
YES >> Proceed to <u>AV-217, "Diagnosis Procedure"</u> . NO-1 >> To check malfunction symptom before repair: Refer to <u>GI-43, "Intermittent Incident"</u> . NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure INFOID:000000132200: 1. PERFORM SELF DIAGNOSTIC RESULT ONSULT 1. Turn ignition switch ON. 2. Erase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV".	
NO-1 >> To check malfunction symptom before repair: Refer to <u>GI-43, "Intermittent Incident"</u> . NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure INFOID:000000132200: 1.PERFORM SELF DIAGNOSTIC RESULT INFOID:000000132200: Image: CONSULT Information switch ON. 1. Turn ignition switch ON. Erase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV".	L
Diagnosis Procedure INFOID:00000001322003 1.PERFORM SELF DIAGNOSTIC RESULT CONSULT 1. Turn ignition switch ON. 2. Erase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV".	
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 1.PERFORM SELF DIAGNOSTIC RESULT CONSULT 1. Turn ignition switch ON. 2. Erase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV". 	: IV
 1.PERFORM SELF DIAGNOSTIC RESULT CONSULT 1. Turn ignition switch ON. 2. Erase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV". 	
 CONSULT 1. Turn ignition switch ON. 2. Erase DTC. 3. Select "Self Diagnostic Result" mode of "MULTI AV". 	AV
 Turn ignition switch ON. Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". 	
 Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". 	С
4. Check DTC.	_
Is DTC U1010 detected?	F
YES >> Replace the AV control unit. Refer to <u>AV-277, "Removal and Installation"</u> .	

[NAVIGATION WITH AMPLIFIER]

INFOID:000000013220033

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U1217 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

U1217 AV CONTROL UNIT

DTC Description

INFOID:000000013220035

[NAVIGATION WITH AMPLIFIER]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
		Diagnosis condition	When ignition switch is ON.	
	BLUETOOTH MODULE (Bluetooth module)	Signal (terminal)	—	
U1217		Threshold	Communication error to Bluetooth sub mod- ule	
		Diagnosis delay time	—	

POSSIBLE CAUSE

AV control unit

FAIL-SAFE

_ _ _ _ _ _ _

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U1217 detected?

- YES >> Proceed to AV-218, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013220036

1.PERFORM SELF DIAGNOSTIC RESULT

CONSULT

- Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "MULTI AV".
- 4. Check DTC.

Is DTC U1217 detected?

- YES >> Replace the AV control unit. Refer to <u>AV-277</u>, "Removal and Installation".
- NO >> Refer to GI-43, "Intermittent Incident".

U1229 AV CONTROL UNIT [NAVIGATION WITH AMPLIFIER]

< DTC/CIRCUIT DIAGNOSIS >

U1229 AV CONTROL UNIT

DTC Description

INFOID-000000012220027
INFOID:000000013220037

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u1229 iPod CERTIFICATION (iPod certification) Diagnosis condition When ignition switch is ON. Signal (terminal) Threshold Communication error to iPod authenti chip Diagnosis delay time POSSIBLE CAUSE Communication error to iPod authenti chip W control unit AlL-SAFE OTC CONFIRMATION PROCEDURE PERFORM DTC CONFIRMATION PROCEDURE CONSULT Turu ignition switch ON. Select "Self Diagnostic Result" mode of "MULTI AV". Scheck DTC. Select "Self Diagnostic Result" mode of "MULTI AV". Scheck DTC. Start Self Diagnostic Result" mode of "MULTI AV". Scheck DTC. Start Self Diagnostic Result" mode of "MULTI AV". Scheck DTC Start Self Diagnostic Result" mode of "MULTI AV". Scheck DTC Select "Self Diagnostic Result" NO-1 > To check malfunction symptom before repair: Refer to GI-43. "Intermittent Incident". NO-2 >- Originosis Procedur	U1229 Diagnosis condition When ignition switch is ON. Signal (terminal) Communication error to iPod authenticatic chip Diagnosis delay time Communication error to iPod authenticatic chip SIBLE CAUSE Diagnosis delay time SSIBLE CAUSE ontrol unit SAFE CONFIRMATION PROCEDURE ERFORM DTC CONFIRMATION PROCEDURE DNSULT Turn ignition switch ON. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. CU1229 detected? S >> Proceed to AV-219. "Diagnosis Procedure". -1 >> To check malfunction symptom before repair: Refer to GI-43. "Intermittent Incident". -2 >> Confirmation after repair: Inspection End. gnosis Procedure wroncoccconstrate ERFORM SELF DIAGNOSTIC RESULT DNSULT DNSULT Turn ignition switch ON. Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. COLU229 detected? S >> Replace the AV control unit.	DIC NO.	(Trouble diagnosis content)		DTC detection condition
U1229 iPod CERTIFICATION (Pod certification) Signal (terminal) - Threshold Communication error to iPod authentichip Diagnosis delay time - POSSIBLE CAUSE Av control unit FAIL-SAFE	u1229 iPod CERTIFICATION (Pod certification) Signal (terminal) Threshold Communication error to iPod authentication chip Diagnosis delay time SSIBLE CAUSE ontrol unit -SAFE CONFIRMATION PROCEDURE ERFORM DTC CONFIRMATION PROCEDURE DNSULT Turn ignition switch ON. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. CU1228 detected? S > Proceed to AV-219. "Diagnosis Procedure". -1 -1 >> To check malfunction symptom before repair: Refer to GI-43. "Intermittent Incident". -2 -2 > Confirmation after repair: Inspection End. gnosis Procedure Sinsuit Procedure			Diagnosis condition	When ignition switch is ON.
U1229 IPO DENTIFICATION (Pod certification) Threshold Communication error to iPod authentichip Diagnosis delay time — POSSIBLE CAUSE — V control unit — FAIL-SAFE — OTC CONFIRMATION PROCEDURE — PERFORM DTC CONFIRMATION PROCEDURE — OCONSULT … Turn ignition switch ON. … Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. Softward (Comparison of the procedure) NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident". NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure	U1229 Producertification Inreshold Communication error to iPod authentication chip Diagnosis delay time - SSIBLE CAUSE Ontrol unit -SAFE CONFIRMATION PROCEDURE ERFORM DTC CONFIRMATION PROCEDURE ERFORM DTC CONFIRMATION PROCEDURE DNSULT Turm ignition switch ON. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. Cu1229 detected? S >> Proceed to <u>AV-219. "Diagnosis Procedure".</u> -1 >> To check malfunction symptom before repair: Refer to <u>GI-43. "Intermittent Incident".</u> -2 >> Confirmation after repair: Inspection End. gnosis Procedure			Signal (terminal)	_
Diagnosis delay time	Diagnosis delay time	U1229	(iPod certification)	Threshold	Communication error to iPod authentication chip
POSSIBLE CAUSE W control unit FAIL-SAFE - DTC CONFIRMATION PROCEDURE 1.PERFORM DTC CONFIRMATION PROCEDURE CONSULT 1. Turn ignition switch ON. 2. Select "Self Diagnostic Result" mode of "MULTI AV". 3. Check DTC. s DTC U1229 detected? YES >> Proceed to AV-219, "Diagnosis Procedure". NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident". NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure 1.PERFORM SELF DIAGNOSTIC RESULT CONSULT Turn ignition switch ON.	SIBLE CAUSE ontrol unit -SAFE CONFIRMATION PROCEDURE ERFORM DTC CONFIRMATION PROCEDURE DNSULT Turn ignition switch ON. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. IC U1229 detected? S >> Proceed to <u>AV-219. "Diagnosis Procedure"</u> . -1 >> To check malfunction symptom before repair: Refer to <u>GI-43. "Intermittent Incident"</u> . -2 >> Confirmation after repair: Inspection End. gnosis Procedure ERFORM SELF DIAGNOSTIC RESULT DNSULT Turn ignition switch ON. Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. CU1229 detected? S >> Replace the AV control unit. Refer to <u>AV-277. "Removal and Installation"</u> . >> Refer to <u>GI-43. "Intermittent Incident"</u> .			Diagnosis delay time	_
I.PERFORM DTC CONFIRMATION PROCEDURE I. Turn ignition switch ON. 2. Select "Self Diagnostic Result" mode of "MULTI AV". 3. Check DTC. <u>s DTC U1229 detected?</u> YES YES >> Proceed to <u>AV-219</u> , "Diagnosis Procedure". NO-1 >> To check malfunction symptom before repair: Refer to <u>GI-43</u> , "Intermittent Incident". NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure INFOL>00000 I.PERFORM SELF DIAGNOSTIC RESULT I.PERFORM SELF DIAGNOSTIC RESULT	ERFORM DTC CONFIRMATION PROCEDURE ONSULT Turn ignition switch ON. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. TC U1229 detected? S >> Proceed to AV-219, "Diagnosis Procedure"1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident"2 >> Confirmation after repair: Inspection End. gnosis Procedure ERFORM SELF DIAGNOSTIC RESULT ONSULT Turn ignition switch ON. Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. (C U1229 detected? S >> Replace the AV control unit. Refer to AV-277, "Removal and Installation". >> Refer to GI-43, "Intermittent Incident".	V control uni AIL-SAFE 	RMATION PROCEDURE		
CONSULT I. Turn ignition switch ON. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. <u>s DTC U1229 detected?</u> YES >> Proceed to <u>AV-219</u> , " <u>Diagnosis Procedure"</u> . NO-1 >> To check malfunction symptom before repair: Refer to <u>GI-43</u> , "Intermittent Incident". NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure I.PERFORM SELF DIAGNOSTIC RESULT CONSULT L. Turn ignition switch ON.	DNSULT Turn ignition switch ON. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. IC U1229 detected? S >> Proceed to AV-219, "Diagnosis Procedure". -1 >> To check malfunction symptom before repair: Refer to GI-43. "Intermittent Incident". -2 >> Confirmation after repair: Inspection End. gnosis Procedure Information after repair: Inspection End. gnosis Procedure Information after repair: Inspection End. SNULT Intermittent Incident". ONSULT Intermittent Incident Turn ignition switch ON. Intermittent Incident". Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. Intermittent Incident". S >> Replace the AV control unit. Refer to AV-277, "Removal and Installation". >> Refer to GI-43. "Intermittent Incident".	.PERFORM	1 DTC CONFIRMATION PRO	DCEDURE	
s DTC U1229 detected? YES >> Proceed to AV-219, "Diagnosis Procedure". NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident". NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure INFORM SELF DIAGNOSTIC RESULT OCONSULT Turn ignition switch ON.	IC U1229 detected? S >> Proceed to AV-219, "Diagnosis Procedure". -1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident". -2 >> Confirmation after repair: Inspection End. gnosis Procedure ERFORM SELF DIAGNOSTIC RESULT DNSULT Turn ignition switch ON. Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. IC U1229 detected? 3 >> Replace the AV control unit. Refer to AV-277, "Removal and Installation". >> Refer to GI-43, "Intermittent Incident".	CONSULT Turn ignit Select "Select "Select D	ion switch ON. elf Diagnostic Result" mode (FC	of "MULTI AV".	
NO-2 >> Confirmation after repair: Inspection End. Diagnosis Procedure I.PERFORM SELF DIAGNOSTIC RESULT CONSULT I. Turn ignition switch ON.	 -2 >> Confirmation after repair: Inspection End. gnosis Procedure ERFORM SELF DIAGNOSTIC RESULT DNSULT Turn ignition switch ON. Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. IC U1229 detected? 3 >> Replace the AV control unit. Refer to <u>AV-277, "Removal and Installation".</u> >> Refer to <u>GI-43, "Intermittent Incident"</u>. 	<u>s DTC U1229</u> YES >> P NO-1 >> Tr	<u>9 detected?</u> roceed to <u>AV-219, "Diagnosi</u> o check malfunction symptor	<u>s Procedure"</u> . n before repair: Refer to	GI-43. "Intermittent Incident".
Diagnosis Procedure INFOLD:00000 1.PERFORM SELF DIAGNOSTIC RESULT CONSULT I. Turn ignition switch ON.	ERFORM SELF DIAGNOSTIC RESULT DNSULT Turn ignition switch ON. Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. <u>IC U1229 detected?</u> S >> Replace the AV control unit. Refer to <u>AV-277, "Removal and Installation"</u> . >> Refer to <u>GI-43, "Intermittent Incident"</u> .	NO-2 >> C	confirmation after repair: Insp	ection End.	
1.PERFORM SELF DIAGNOSTIC RESULT	ERFORM SELF DIAGNOSTIC RESULT ONSULT Turn ignition switch ON. Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. <u>IC U1229 detected?</u> S >> Replace the AV control unit. Refer to <u>AV-277, "Removal and Installation"</u> . >> Refer to <u>GI-43, "Intermittent Incident"</u> .	Jiagnosis	Procedure		INFOID:0000000132200
PERFORM SELF DIAGNOSTIC RESULT CONSULT Turn ignition switch ON.	ERFORM SELF DIAGNOSTIC RESULT ONSULT Turn ignition switch ON. Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. <u>IC U1229 detected?</u> S >> Replace the AV control unit. Refer to <u>AV-277, "Removal and Installation"</u> . >> Refer to <u>GI-43, "Intermittent Incident"</u> .				
CONSULT	 ONSULT Turn ignition switch ON. Erase DTC. Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. <u>IC U1229 detected?</u> S >> Replace the AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>. >> Refer to <u>GI-43, "Intermittent Incident"</u>. 	.PERFORM	I SELF DIAGNOSTIC RESU	LT	
2. Erase DTC.	 Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. <u>FC U1229 detected?</u> S >> Replace the AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>. >> Refer to <u>GI-43, "Intermittent Incident"</u>. 	CONSULT Turn ignit Erase DT	ion switch ON. C.	<i></i>	
 Select "Self Diagnostic Result" mode of "MULTI AV". Check DTC. 	 <u>FC U1229 detected?</u> S >> Replace the AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>. >> Refer to <u>GI-43, "Intermittent Incident"</u>. 	 Select "Select "Select DT Check DT 	elf Diagnostic Result" mode ΓC.	of "MULTI AV".	
<u>s DTC U1229 detected?</u> YES >> Replace the AV control unit. Refer to AV-277, "Removal and Installation"	>> Refer to <u>GI-43, "Intermittent Incident"</u> .	<u>3 DTC U1229</u> YES >> R	<u>eplace the AV control unit</u>	efer to AV-277, "Remov	al and Installation".
NO >> Refer to <u>GI-43, "Intermittent Incident"</u> .					

< DTC/CIRCUIT DIAGNOSIS >

U1244 GPS ANTENNA

DTC Description

INFOID:000000013220039

[NAVIGATION WITH AMPLIFIER]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
	GPS ANTENNA CONN (GPS antenna conn)	Diagnosis condition	When ignition switch is ON.
111244		Signal (terminal)	_
01244		Threshold	GPS antenna disconnected or short circuit
		Diagnosis delay time	—

POSSIBLE CAUSE

- · GPS antenna disconnected
- GPS antenna signal circuit open or short to ground
- GPS antenna
- AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U1244 detected?

- YES >> Proceed to AV-220, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013220040

Regarding Wiring Diagram information, refer to AV-191, "Wiring Diagram".

1.GPS ANTENNA INSPECTION

Visually inspect the GPS antenna and antenna feeder. Refer to <u>AV-288, "Removal and Installation"</u>. <u>Is inspection result normal?</u>

YES >> GO TO 2.

NO >> Repair or replace malfunctioning components.

2. CHECK AV CONTROL UNIT VOLTAGE

- 1. Turn ignition switch ON.
- 2. Check voltage between AV control unit connector M151 terminal 58 and ground.

AV cor	ntrol unit	Ground	Voltage	
Connector Terminal		Cround	(Approx.)	
M151	58	_	5.0 V	

Is inspection result normal?

YES >> Replace GPS antenna. Refer to AV-288, "Removal and Installation".

NO >> Replace AV control unit. Refer to AV-277. "Removal and Installation".

U1258 SATELLITE RADIO ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

U1258 SATELLITE RADIO ANTENNA

DTC Description

DTC DETECTION LOGIC

DTC No.	DTC No. CONSULT screen terms (Trouble diagnosis content) DTC detection condition		
		Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	-
U1258	(XM antenna conn)	Threshold	Satellite antenna disconnected or short cir- cuit
		Diagnosis delay time	—
POSSIBLE Satellite ar Satellite ar Satellite ar AV control 	CAUSE ntenna disconnected ntenna signal circuit open or sl ntenna unit	nort to ground	
FAIL-SAFE			
DTC CONF	IRMATION PROCEDURE		
1.PERFOR	M DTC CONFIRMATION PRO	DCEDURE	
CONSULT 1. Turn ign 2. Select "S 3. Check D	r ition switch ON. Self Diagnostic Result" mode o DTC.	of "MULTI AV".	
Is DTC U125	58 detected?		
YES >> NO-1 >> NO-2 >>	Proceed to <u>AV-221, "Diagnosi</u> To check malfunction symptor Confirmation after repair: Insp	<u>s Procedure"</u> . n before repair: Refer to ection End.	GI-43. "Intermittent Incident".
Diagnosis	Procedure		INFOID:0000000132200
0			
Regarding W	/iring Diagram information, ref	er to <u>AV-191, "Wiring Di</u>	agram".
1. SATELLI	TE ANTENNA INSPECTION		
Visually insp	ect the satellite antenna and a	antenna feeder. Refer to	AV-174, "Antenna and Antenna Feeder".
Is inspection	result normal?		
YES >> NO >>	GO TO 2. Repair or replace malfunctioni	na components	
2.снеск я	SATELLITE ANTENNA FEED		
1 Turn ion	ition switch OFF		
2. Disconn	ect AV control unit connector	W147 and satellite radio	antenna connector R109.

AV control unit		AV control unit Satellite radio antenna		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M147	56	R109	1	Yes

4. Check continuity between AV control unit connector M147 and ground.



INFOID:000000013220041

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U1258 SATELLITE RADIO ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

AV co	ntrol unit	Ground	Continuity
Connector Terminal		Ground	Continuity
M147	56	_	No

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector M147 and satellite radio antenna connector R109.

2. Turn ignition switch ON.

3. Check voltage between AV control unit connector M147 terminal 56 and ground.

AV cor	ntrol unit	Ground	Voltage	
Connector Terminal		Ground	(Approx.)	
M147	56	—	5.0 V	

Is inspection result normal?

YES >> Replace satellite radio antenna AV-287. "Removal and Installation".

NO >> Replace AV control unit. Refer to <u>AV-277. "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

U1263 USB

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC de	etection condition	С
		Diagnosis condition	When ignition switch is ON.)
U1263		Signal (terminal)	—	
	(USB overcurrent)	Threshold	USB power supply excess maximum cur- rent	D
		Diagnosis delay time	-	_
POSSIBLE	CAUSE			E
 Device co USB inter AV control 	face harness unit			F
FAIL-SAFE				
_				G
DTC CON	FIRMATION PROCEDURE			
1.PERFO	RM DTC CONFIRMATION PRO	DCEDURE		L
	Т			Н
 If there Turn ig Select Check 	is a device connected to the U nition switch ON. "Self Diagnostic Result" mode on DTC.	SB interface, disconnect it. of "MULTI AV".		I
Is DTC U12	263 detected?			
YES >>	Proceed to AV-223, "Diagnosis	s Procedure".		J
NO-1 >>	• To check malfunction sympton	n before repair: Refer to <u>GI-43</u>	<u>, "Intermittent Incident"</u> .	
NO-2 >>		ection End.		Κ
Diagnosi	s Procedure		INFOID:000000013220044	
1 .CHECK	USB INTERFACE HARNESS			I
Visually ine	nect USB interface harness Be	efer to AV-278 "Removal and	Installation"	L
Is the inspe	ection result normal?	Sion to <u>AVE 210, INCHIOVALANU</u>	motandion.	
YES >>	• GO TO 2.			M
NO >>	· Replace USB interface harnes	s. Refer to <u>AV-278, "Removal</u>	and Installation".	
2.CHECK	USB INTERFACE HARNESS			Δ١/
Check USE	interface harness circuits. Ref	er to <u>AV-262, "Diagnosis Proce</u>	edure".	Λv
Is the inspe	ection result normal?			
YES >> NO >>	Replace AV control unit. Refer Replace USB interface harnes	to <u>AV-277, "Removal and Inst</u> s. Refer to <u>AV-278, "Removal</u>	tallation". and Installation".	0
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INFOID:000000013220043

< DTC/CIRCUIT DIAGNOSIS >

U1265 AUDIO AMP.

DTC Description

INFOID:000000013024715

[NAVIGATION WITH AMPLIFIER]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
		Diagnosis condition	When ignition switch is ON.
U1265	AMP ON TERMINAL (amp ON terminal)	Signal (terminal)	
		Threshold	Current of external control line exceeded maximum
		Diagnosis delay time	—

POSSIBLE CAUSE

- Amp ON signal circuit open or short to ground
- Audio amp.
- AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U1265 detected?

- YES >> Proceed to <u>AV-224, "Diagnosis Procedure"</u>.
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013024716

Regarding Wiring Diagram information, refer to AV-191, "Wiring Diagram".

1.CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND BOSE SPEAKER AMP.

- 1. Turn ignition switch OFF.
- 2. Disconnect AV control unit connector M43 and audio amp. connector M113.
- 3. Check continuity between AV control unit connector M43 and audio amp. connector M113.

AV cor	ntrol unit	Audio amp.		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M43	1	M113	9	Yes	

4. Check continuity between AV control unit connector M43 and ground.

AV control unit		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
M43	1	_	No	

Is the inspection result normal?

YES >> GO TO 2.

Revision: March 2016

U1265 AUDIO AMP.

[NAVIGATION WITH AMPLIFIER]

DTC/CIRCUIT DIAGNOSIS >		[NAVIG/	ATION WITH AMPLIFIEF	R]
NO >> Repair or replace harne	ess or connectors.			
2.CHECK AV CONTROL UNIT VO	DLTAGE			
. Connect AV control unit connect	ctor M43.			
2. Turn ignition switch ON.	trol unit connector	M43 and around		
5. Check voltage between AV cor		M45 and ground.		
AV control unit				
(+)		Ground	Voltage (Approx.)	
Connector	Terminal		(/ ())	
M43	1	_	Battery voltage	
s the inspection result normal?				
YES >> Replace audio amp. Re	efer to <u>AV-286, "Rei</u>	moval and Installation".		
NO >> Replace AV control uni	I. Relef to <u>AV-277,</u>	Removal and installation.		

U12AA CONFIGURATION ERROR

< DTC/CIRCUIT DIAGNOSIS >

U12AA CONFIGURATION ERROR

DTC Description

INFOID:000000013220045

[NAVIGATION WITH AMPLIFIER]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
	Diagnosis condition	When ignition switch is ON.	
11124 4	Configuration Error	Signal (terminal)	—
(Configuration Error)	Threshold	Incomplete Configuration	
	Diagnosis delay time	—	

POSSIBLE CAUSE

AV control unit configuration

AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U12AA detected?

- YES >> Proceed to AV-226, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013220046

1.PERFORM CONFIGURATION

CONSULT

- 1. Perform configuration procedure. Refer to <u>AV-212, "CONFIGURATION (AV CONTROL UNIT) : Work Pro-</u> cedure".
- 2. Turn ignition switch ON.
- 3. Select "Self Diagnostic Result" mode of "MULTI AV".
- 4. Check DTC.

Is DTC U12AA detected?

- YES >> Replace the AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>.
- NO >> Inspection End.

U12AB ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

U12AB ANTENNA

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT sc (Trouble diagno	reen terms sis content)		DTC detection co	ndition
		[Diagnosis condition	When ign	ition switch is ON.
	FM Antenna error		Signal (terminal)	—	
UTZAD	(FM Antenna error)	-	Threshold	Rod ante	nna disconnected or short circuit
		ſ	Diagnosis delay time	_	
 OSSIBLE Rod antenr AM/FM ant Rod antenr AV control 	CAUSE na disconnected enna signal open na unit	or short to gro	und		
AIL-SAFE					
_					
DTC CONF	IRMATION PRO	CEDURE			
1.PERFORI		IATION PROC	EDURE		
CONSULT 1. Turn igni 2. Select "S	tion switch ON. Self Diagnostic Re	esult" mode of '	'MULTI AV".		
3. Check D	TC.				
I <u>s DTC U12A</u> YES >> F NO-1 >> 7 NO-2 >> (<u>B detected?</u> Proceed to <u>AV-22</u> To check malfunc Confirmation after	7, "Diagnosis F tion symptom b repair: Inspec	P <u>rocedure"</u> . Jefore repair: Refe tion End.	r to <u>GI-43, "Intermi</u>	ttent Incident".
Diagnosis	Procedure				INFOID:00000001322004
Regarding W	iring Diagram inf	ormation, refer	to <u>AV-191, "Wiring</u>	<u>ı Diagram"</u> .	
1.ROD ANT	ENNA INSPECT	ION			
√isually insp	ect the rod anten	na and antenna	a feeder.Refer to A	V-174, "Antenna a	and Antenna Feeder".
s inspection	result normal?				
YES >> (GO TO 2. Repair or replace	malfunctioning	components		
			components.		
		IT VOLIAGE			
2. Check vo	bltage between A	V control unit c	onnector M146 ter	minal 52 and grou	nd.
	AV control	unit			Voltane
				Ground	vollage
Con	nector	Terminal			(Approx.)

Is inspection result normal?

YES >> Replace rod antenna. Refer to <u>AV-290, "Removal and Installation"</u>.

NO >> Replace AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>.

AV-227

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INFOID:000000013220047

U12AC AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

U12AC AV CONTROL UNIT

DTC Description

INFOID:000000013220049

[NAVIGATION WITH AMPLIFIER]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
		Diagnosis condition	When ignition switch is ON.
U12AC Display Temperature too High (Display Temperature too High)	Display Tomporature too High	Signal (terminal)	—
	Threshold	Upper operation temperature of display exceeded	
		Diagnosis delay time	—

POSSIBLE CAUSE

AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U12AC detected?

- YES >> Proceed to AV-228, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013220050

1.PERFORM SELF DIAGNOSTIC RESULT

CONSULT

- Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "MULTI AV".
- 4. Check DTC.

Is DTC U12AC detected?

- YES >> Replace the AV control unit. Refer to <u>AV-277</u>, "Removal and Installation".
- NO >> Refer to GI-43, "Intermittent Incident".

U12AD AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

U12AD AV CONTROL UNIT

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)		DTC detection condition	(
		Diagnosis condition	When ignition switch is ON.	
	ECI Temperature too High	Signal (terminal)	-	
U12AD	(ECU Temperature too High)	Threshold	Upper operation temperature of AV control unit exceeded	[
		Diagnosis delay time	—	ſ
POSSIBLE	CAUSE			
AV control u	nit			
FAIL-SAFE				ļ
—				
DTC CONF	IRMATION PROCEDURE			(
1.PERFOR	M DTC CONFIRMATION PRO	OCEDURE		
	-			1
2. Select "S	Self Diagnostic Result" mode	of "MULTI AV".		
3. Check D	TC.			
Is DTC U12/	<u>AD detected?</u>	. Duranda anti		
YES >> NO-1 >> '	Proceed to <u>AV-229, "Diagnosi</u> To check malfunction symptor	<u>s Procedure"</u> . n before repair: Refer to	o GI-43. "Intermittent Incident".	
NO-2 >> (Confirmation after repair: Insp	ection End.		
Diagnosis	Procedure		INFOID:000000013220052	
-				
1				
I.PERFOR	M SELF DIAGNOSTIC RESU	ILT		
	- ition owitch ON			
2. Erase D	TC.			
3. Select "S	Self Diagnostic Result" mode	of "MULTI AV".		ľ
	VIC.			
YES >>1	<u>ND delected (</u> Replace the AV control unit R	Refer to A\/-277 "Remo	val and Installation"	
NO >>	Refer to <u>GI-43, "Intermittent Ir</u>	ncident".	tarana metanatorr	A
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INFOID:000000013220051

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< DTC/CIRCUIT DIAGNOSIS >

U12AE AV CONTROL UNIT

DTC Description

INFOID:000000013220053

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
	Internel Amplifier temperature	Diagnosis condition	When ignition switch is ON.
U12AE Warning (Internal Amplifier temper Warning)	Warning	Signal (terminal)	—
	(Internal Amplifier temperature	Threshold	Amplifier temperature threshold exceeded
	warning)	Diagnosis delay time	—

POSSIBLE CAUSE

AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U12AE detected?

- YES >> Proceed to AV-230, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013220054

1.PERFORM SELF DIAGNOSTIC RESULT

- T. Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "MULTI AV".
- 4. Check DTC.

Is DTC U12AE detected?

- YES >> Replace the AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>.
- NO >> Refer to <u>GI-43</u>, "Intermittent Incident".

U12AF AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

U12AF AV CONTROL UNIT

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)		DTC detection condition	(
		Diagnosis condition	When ignition switch is ON.	
	CD Mechanism Temperature	Signal (terminal)	-	
U12AF	(CD Mechanism Temperature Warning)	Threshold	Upper operation temperature of CD drive exceeded	
		Diagnosis delay time	—	
POSSIBLE (CAUSE			Ľ
FAIL-SAFE				F
— DTC CONFL	RMATION PROCEDURE			
1.PERFORM	I DTC CONFIRMATION PRO	CEDURE		(
CONSULT 1. Turn ignit 2. Select "S 3. Check D	tion switch ON. elf Diagnostic Result" mode c TC.	of "MULTI AV".		ŀ
<u>Is DTC U12A</u> YES >> F NO-1 >> T	F detected? Proceed to <u>AV-231, "Diagnosis</u> o check malfunction symptom	<u>s Procedure"</u> . 1 before repair: Refer to	GI-43, "Intermittent Incident".	
NO-2 >> (Confirmation after repair: Inspe	ection End.		
Diagnosis	Procedure		INFOID:000000013220056	
1				ľ
	A SELF DIAGNOSTIC RESU	LI		1
1. Turn igni	tion switch ON.			L
 Erase D1 Select "S Check D⁻ 	elf Diagnostic Result" mode c TC.	of "MULTI AV".		Ν
Is DTC U12A	F detected?			
165 >> F NO >> F	Refer to <u>GI-43, "Intermittent In</u>	cident".	ai and installation".	A١
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U12B0 POWER SUPPLY VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

U12B0 POWER SUPPLY VOLTAGE

DTC Description

INFOID:000000013220057

[NAVIGATION WITH AMPLIFIER]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
		Diagnosis condition	When ignition switch is ON.
Supply Voltage Goes below	Supply Voltage Goes below 9V >	Signal (terminal)	—
U12B0	U12B0 (Supply Voltage Goes below 9V > 20s)	Threshold	Lower operation threshold of supply voltage exceeded
		Diagnosis delay time	—

POSSIBLE CAUSE

- Charging system malfunction
- AV control unit power supply or ground circuits
- AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

(E)CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "MULTI AV".
- 3. Check DTC.

Is DTC U12B0 detected?

- YES >> Proceed to AV-232, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013220058

1.CHECK CHARGING SYSTEM

Check the vehicle charging system. Refer to <u>CHG-23</u>, "Work Flow (With EXP-800 NI or <u>GR8-1200 NI</u>) (with <u>Cummins 5.0L</u>)" or <u>CHG-29</u>, "Work Flow (Without EXP-800 NI or <u>GR8-1200 NI</u>) (with <u>Cummins 5.0L</u>)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning components.

2.CHECK AV CONTROL UNIT POWER SUPPLY AND GROUND CIRCUITS

Perform the AV control unit power supply and ground circuit diagnosis procedure. Refer to <u>AV-234, "AV CON-TROL UNIT : Diagnosis Procedure"</u>.

Is the inspection result normal?

- YES >> Replace the AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connectors.

U12B1 POWER SUPPLY VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

U12B1 POWER SUPPLY VOLTAGE

DTC Description

DTC DETECTION LOGIC

DIC NO.	CONSULT screen terms (Trouble diagnosis content)	DT	C detection condition
		Diagnosis condition	When ignition switch is ON.
	Supply Voltage Goes High > 16V	Signal (terminal)	_
U12B1	for 20s (Supply Voltage Goes High > 16V for 20s)	Threshold	Upper operation threshold of supply voltage exceeded
		Diagnosis delay time	
Charging sy AV control i	/stem malfunction unit		
DTC CONFI	RMATION PROCEDURE	CEDURE	
1. Turn igni	tion switch ON.	£ "NALLETE AN /"	
 Select "S Check D 	eir Diagnostic Result mode o	IT WULTLAV .	
<u>Is DTC U12B</u>	1 detected?		
YES >> F NO-1 >> T NO-2 >> (Proceed to <u>AV-233, "Diagnosis</u> To check malfunction symptom Confirmation after repair: Inspe	<u>Procedure"</u> . before repair: Refer to <u>GI-</u> ection End.	-43. "Intermittent Incident".
Diagnosis	Procedure		INFOID:00000001322000
1.снеск с	HARGING SYSTEM		
Check the ve	hicle charging system. Refer	to <u>CHG-23, "Work Flow (\</u> Vithout EXP-800 NI or GR8	<u>With EXP-800 NI or GR8-1200 NI) (wit</u> 3-1200 NI) (with Cummins <u>5.0L)"</u> .
Cummins 5.0	<u></u> e. <u></u>		
Cummins 5.0 Is the inspect	ion result normal?		
Cummins 5.0 Is the inspect YES >> F NO >> F	ion result normal? Replace the AV control unit. Re	efer to <u>AV-277, "Removal a</u>	nd Installation".

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[NAVIGATION WITH AMPLIFIER]

INFOID:000000013220059

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< DTC/CIRCUIT DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

POWER SUPPLY AND GROUND CIRCUIT AV CONTROL UNIT

AV CONTROL UNIT

AV CONTROL UNIT : Diagnosis Procedure

INFOID:000000013024732

Regarding Wiring Diagram information, refer to AV-191. "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
7	ACC power supply	25 (5A)
19	Battery power supply	15 (20A)
37	Ignition power supply	29 (5A)

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect AV control unit connectors M43 and M45.
- 3. Check voltage between AV control unit connectors M43 and M45 and ground.

AV cor	trol unit	Ground	Condition	Voltage	
Connector	Terminal	Cround	Condition	(Approx.)	
 M43	19		Ignition switch: OFF		
WHO	7	—	Ignition switch: ON	Battery voltage	
M45	37		Ignition switch. ON		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

 ${\it 3.}$ CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check continuity between AV control unit connector M43 and ground.

AV control unit		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
M43	20	—	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

audio Amp.

AUDIO AMP. : Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>AV-191, "Wiring Diagram"</u>.

1.CHECK FUSE

INFOID:000000013024733

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

Check that the following fuses are not blown.

			A
Terminal No.	Signal name	Fuse No.	
1	Battery power supply	12 (15A)	
17	Battery power supply	11 (15A)	В

Are the fuses blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect audio amp. connector M112.

3. Check voltage between audio amp. connector M112 and ground.

Audio	o amp.	Ground	Condition	Voltage	_
Connector	Terminal	Giouna	Condition	(Approx.)	
M110	1		Ignition switch: OFF	Pattony voltago	-
M112	17		Ignition switch. OFF	Ballery vollage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

Check continuity between audio amp. connector M112 and ground.

Audi	Audio amp.		Continuity	
Connector	Terminal	Ground	Continuity	
M110	4		Voc	
101112	20	—	Tes	,

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

Μ

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< DTC/CIRCUIT DIAGNOSIS >

FRONT TWEETER

Diagnosis Procedure

INFOID:000000013024735

Regarding Wiring Diagram information, refer to AV-191, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, audio amp. and tweeter connectors for the following:

- Proper connection
- Damage

Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair the terminals or connectors.

2. CHECK FRONT TWEETER SIGNAL CIRCUIT CONTINUITY (AUDIO AMP.)

1. Disconnect audio amp. connector M113 and suspect front tweeter connector.

2. Check continuity between audio amp. connector M113 and suspect front tweeter connector.

Audio	o amp.	Front tweeter		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	14 M100 (LU)	1		
M113	30	WI09 (LH)	2	Vec
	13		1	Tes
	29		2	

3. Check continuity between audio amp. connector M113 and ground.

Audio amp.		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
	14			
M113	30		No	
	13		INO	
	29			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3.CHECK FRONT TWEETER SIGNAL (AUDIO AMP.)

1. Connect audio amp. connector M113 and suspect front tweeter connector.

- 2. Turn ignition switch to ACC.
- 3. Push AV control unit POWER switch.

4. Check signal between audio amp. connector M113 and ground.

Audio amp. connector M113			
(+)	(-)	Condition	Reference value
Terminal	Terminal		

FRONT TWEETER

< DTC/CIRCUIT DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

13	29	A	udio signal output	(V) 1 0 -1	2ms skib3609E
the inspection resu	It normal?				
YES >> Replace f	front tweeter. Refer to	AV-279, "Re	emoval and Installation	<u>ı"</u> .	
NO >> GO TO 4				.	
CHECK FRONT T	WEETER SIGNAL CI	RCUIT CON	TINUITY (AV CONTR	OL UNIT)	
Turn ignition swite Disconnect audio Check continuity	ch to OFF. amp. connector M11: between audio amp. (3 and AV cor connector M	ntrol unit connector M4 113 and AV control un	13. it connector	M43.
Audio	amp.		AV control unit		
Connector	Terminal	Conne	ector Term	inal	Continuity
	22	1	2		
M112	6	-	3		Voc
WITTS	21	- 1014	11		165
	5	-	12	2	
Connector	Audio amp. Termin 22	al	Ground		Continuity
	6				
M113	21		—		No
	5				
the inspection resu YES >> GO TO 5 NO >> Repair or CHECK FRONT T	<u>It normal?</u> replace harness or co WEETER SIGNAL (A	onnectors. V CONTROI	_ UNIT)		
Connect audio ar Turn ignition swite Push AV control u Check signal betw	np. connector M113 a ch to ACC. unit POWER switch. ween AV control unit c	and AV contro	bl unit connector M43. 13 and ground.		
Connect audio ar Turn ignition swite Push AV control u Check signal betw AV control	np. connector M113 a ch to ACC. unit POWER switch. ween AV control unit c	and AV contro	ol unit connector M43. 13 and ground.		
Connect audio ar Turn ignition swite Push AV control u Check signal betw AV contro (+)	np. connector M113 a ch to ACC. Jnit POWER switch. ween AV control unit c ol unit connector M43	and AV contro	ol unit connector M43. 43 and ground. Condition		Reference value
Connect audio ar Turn ignition swite Push AV control o Check signal betw AV contro (+) Terminal	np. connector M113 a ch to ACC. unit POWER switch. ween AV control unit c ol unit connector M43 (-) Termina		ol unit connector M43. 43 and ground. Condition		Reference value
Connect audio ar Turn ignition swite Push AV control u Check signal betw AV contro (+) Terminal 2	np. connector M113 a ch to ACC. unit POWER switch. ween AV control unit c ol unit connector M43 (-) Termina 3	onnector M4	bl unit connector M43. 43 and ground. Condition		Reference value

Revision: March 2016

FRONT TWEETER

< DTC/CIRCUIT DIAGNOSIS >

- YES
- >> Replace audio amp. Refer to <u>AV-286, "Removal and Installation"</u>.
 >> Replace AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>. NO

CENTER SPEAKER

< DTC/CIRCUIT DIAGNOSIS > CENTER SPEAKER А Diagnosis Procedure INFOID:000000013024736 Regarding Wiring Diagram information, refer to AV-191, "Wiring Diagram". С **1.**CONNECTOR CHECK Check the AV control unit, audio amp. and speaker connectors for the following: Proper connection D Damage Disconnected or loose terminals Is the inspection result normal? Ε YES >> GO TO 2. NO >> Repair the terminals or connectors. 2.CHECK CENTER SPEAKER SIGNAL CIRCUIT CONTINUITY (AUDIO AMP.) 1 Disconnect audio amp. connector M113 and center speaker connector M110. 2. Check continuity between audio amp. connector M113 and center speaker connector M110. Audio amp. Center speaker Continuity Connector Terminal Connector Terminal Н 10 1 M113 M110 Yes 26 2 Check continuity between audio amp. connector M113 and ground. 3. Audio amp. Ground Continuity Connector Terminal 10 M113 No 26 Κ Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness or connectors. **3.**CHECK CENTER SPEAKER SIGNAL (AUDIO AMP.) 1. Connect audio amp. connector M113 and center speaker connector M110. Μ 2. Turn ignition switch to ACC. 3. Push AV control unit POWER switch. Check signal between audio amp. connector M113 and ground. 4. AV Audio amp. connector M113 (+) (-) Condition Reference value Terminal Terminal Ρ 10 26 Audio signal output SKTB3609E

Is the inspection result normal?

CENTER SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace center speaker. Refer to <u>AV-280, "Removal and Installation"</u>.
- NO >> GO TO 4.

4.CHECK CENTER SPEAKER SIGNAL CIRCUIT CONTINUITY (AV CONTROL UNIT)

- 1. Turn ignition switch to OFF.
- 2. Disconnect audio amp. connector M113 and AV control unit connector M43.

3. Check continuity between audio amp. connector M113 and AV control unit connector M43.

Audio	o amp.	AV control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	22	M43	2	
M113	6		3	Voc
	21		11	165
	5		12	

4. Check continuity between audio amp. connector M113 and ground.

Audio amp.		Cround	Continuity	
Connector	Terminal	Ground	Continuity	
	22		No	
M113	6			
	21			
	5			

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness or connectors.

5.CHECK CENTER SPEAKER SIGNAL (AV CONTROL UNIT)

1. Connect audio amp. connector M113 and AV control unit connector M43.

- 2. Turn ignition switch to ACC.
- 3. Push AV control unit POWER switch.

4. Check signal between AV control unit connector M43 and ground.

AV control unit	connector M43		
(+)	(-)	Condition	Reference value
Terminal	Terminal		
2	3		
11	12	Audio signal output	(V) 1 0 -1 • 2ms SKIB3609E

Is the inspection result normal?

YES >> Replace audio amp. Refer to <u>AV-286</u>, "Removal and Installation".

NO >> Replace AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>.

FRONT PILLAR SPEAKER

	GNOSIS >			INAVIO	SATION	WITH AMPLIFIER]
FRONT PILLAP	R SPEAKER					
Diagnosis Proced	dure					INFOID:000000013220061
			WA/inin a D	· "		
Regarding wiring Dia	gram information, refe	r to <u>AV-191</u>	<u>, "wiring D</u>	lagram".		
.connector ch	ECK					
Check the AV control	unit, audio amp. and s	speaker con	nectors fo	the following:		
Damage						
Disconnected or loo	ose terminals					
the inspection resul	<u>lt normal?</u>					
NO >> Repair th	e terminals or connect	ors.				
CHECK FRONT P	ILLAR SPEAKER SIG	NAL CIRCI	ЛТ СОМТІ	NUITY (AUDIO	DAMP.)	
Disconnect audio	amp connector M113		et front nill	ar sneaker cor		
. Check continuity	between audio amp. c	onnector M	113 and su	ispect front pill	ar speak	er connector.
Audic	o amp.		Front pillar speaker		Continuity	
Connector	Terminal	Conn	ector	Terminal	1	,
	14	B82	(LH)	1		
M113	30			2		Yes
	13	R16	(RH)	1		-
Check continuity	29 between audio amp. c	onnector M	113 and or			
Check continuity			in o and gi	ound.		
	Audio amp.					
Connector	Termina	al		Ground		Continuity
	14					
M113	30			_		No
WITTO	13					
	29					
the inspection resul	It normal?					
YES >> GO TO 3 NO >> Renair or	replace harness or co	nnectors				
CHECK FRONT P						
	nn_connector M113 or	nd suspect	front niller	sneaker conne	octor	
. Turn ignition swite	ch to ACC.	ia suspect				
Push AV control u	unit POWER switch.	a otor M440	and every	d		
	ween audio amp. conn	IECTOR IVITT3	and grour	u.		
Audio a	mp. connector M113					
(+)	(-)		Co	ndition		Reference value

Terminal

Terminal

FRONT PILLAR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >



Audio signal output



Is the inspection result normal?

YES >> Replace front pillar speaker. Refer to AV-279, "Removal and Installation".

NO >> GO TO 4.

4.CHECK FRONT PILLAR SPEAKER SIGNAL CIRCUIT CONTINUITY (AV CONTROL UNIT)

1. Turn ignition switch to OFF.

2. Disconnect audio amp. connector M113 and AV control unit connector M43.

3. Check continuity between audio amp. connector M113 and AV control unit connector M43.

Audio	Audio amp.		AV control unit		
Connector	Terminal	Connector	Terminal	Continuity	
	22		2		
M113	6	M42	3	Vec	
	21	10145	11	165	
	5	*	12		

4. Check continuity between audio amp. connector M113 and ground.

Audio amp.		Cround	Continuity	
Connector	Connector Terminal			
	22			
M113	6		No	
	21		INU INU	
	5			

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness or connectors.

5. CHECK FRONT PILLAR SPEAKER SIGNAL (AV CONTROL UNIT)

1. Connect audio amp. connector M113 and AV control unit connector M43.

2. Turn ignition switch to ACC.

3. Push AV control unit POWER switch.

4. Check signal between AV control unit connector M43 and ground.

AV control unit	t connector M43			
(+)	(-)	Condition	Reference value	
Terminal	Terminal			
2	3			
11	12	Audio signal output	(V) 1 0 -1 • 2ms SKIE3609E	

Is the inspection result normal?

FRONT PILLAR SPEAKER

< DTC/	TC/CIRCUIT DIAGNOSIS > [NAVIGATION WITH AMPLIFIER]		
YES NO	 >> Replace audio amp. Refer to <u>AV-286, "Removal and Installation"</u>. >> Replace AV control unit. Refer to <u>AV-277, "Removal and Installation</u>". 	<u>on"</u> .	

FRONT DOOR SPEAKER

Diagnosis Procedure

INFOID:000000013024734

Regarding Wiring Diagram information, refer to AV-191, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, audio amp. and speaker connectors for the following:

- Proper connection
- Damage

Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair the terminals or connectors.

2.CHECK FRONT DOOR SPEAKER SIGNAL CIRCUIT CONTINUITY (AUDIO AMP.)

1. Disconnect audio amp. connector M113 and suspect front door speaker connector.

2. Check continuity between audio amp. connector M113 and suspect front door speaker connector.

Audi	o amp.	Front doc	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M113	15	D12 (LH) 1 2		
	31		2	Vec
	16	D112 (DU)	1	165
	32		2	

3. Check continuity between audio amp. connector M113 and ground.

Audio amp.		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
	15			
M113	31	_	No	
	16		No	
	32			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3.CHECK FRONT DOOR SPEAKER SIGNAL (AUDIO AMP.)

1. Connect audio amp. connector M113 and suspect front door speaker connector.

- 2. Turn ignition switch to ACC.
- 3. Push AV control unit POWER switch.

4. Check signal between audio amp. connector M113 and ground.

Audio amp. c	onnector M113		
(+) (–)		Condition	Reference value
Terminal	Terminal		

FRONT DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

	15	31				
	16	32		Audio signal output		(V) 1 0 -1 • 2ms SKIB3609E
s tł	ne inspection resul	t normal?				
YE	ES >> Replace f	ront door speaker. Re	efer to <u>AV-2</u>	<u>81. "Remov</u>	al and Installa	<u>tion"</u> .
4.0		OOR SPEAKER SIG	NAL CIRCL	JIT CONTIN	UITY (AV CO	NTROL UNIT)
1. 2. 3.	Turn ignition swite Disconnect audio Check continuity I	ch to OFF. amp. connector M11 between audio amp.	3 and AV connector N	ontrol unit co /113 and A\	onnector M43. / control unit c	connector M43.
	Audio	amp.		AV cont	rol unit	Continuity
	Connector	Terminal	Con	nector	Termina	l
	-	22	_	-	2	
	M113	6	- N	43	3	Yes
	-	21	1		11	
4		5		4440	12	
4.	Check continuity i	between audio amp.	connector	in 13 and gr	ound.	
		Audio amp.			Cround	Continuity
	Connector	Termin	al		Ground	Continuity
		22		_		
	M113	6				No
		21		-		
o ti	a increation recul	t normal?				
YE NO 5.0	ES >> GO TO 5. D >> Repair or CHECK FRONT D	replace harness or c	onnectors. NAL (AV CO		NIT)	
1. 2. 3. 4.	Connect audio an Turn ignition switc Push AV control u Check signal betv	np. connector M113 a ch to ACC. init POWER switch. veen AV control unit o	and AV cont	rol unit conr 143 and gro	und.	
	AV contro	ol unit connector M43				
	(+)	(-)		Cor	ndition	Reference value
	Terminal	Termina	al			
	11	12		Audio signal o	utput	(V) 1 0 -1 ++2ms

Is the inspection result normal?

FRONT DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

- YES
- >> Replace audio amp. Refer to <u>AV-286, "Removal and Installation"</u>.
 >> Replace AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>. NO

REAR DOOR TWEETER

DTC/CIRCUIT DIAGNOSIS > [NAVIGATION WITH AMPLIFIE]				
REAR DOOR ⁻	TWEETER			
Diagnosis Proce	dure			INFOID:000000013024738
egarding Wiring Dia	gram information, ref	er to <u>AV-191, "Wi</u>	ring Diagram".	
.CONNECTOR CH	IECK			
Check the AV control	unit, audio amp. and	tweeter connecto	ors for the following:	
Proper connection Damage				
Disconnected or lo	ose terminals			
s the inspection resu	<u>Ilt normal?</u>			
YES >> GO TO 2	Le terminals or conner	store		
				MP)
				avii .)
2. Check continuity	between audio amp.	connectors and s	uspect rear door twe	eter connector.
	· · · ·			
Audi	o amp.	R	ear door tweeter	Continuity
Connector	Terminal	Connector	Terminal	
	11	D208 (LH)	1	
M113	27		2	Yes
	12	D308 (RH)	2	
Check continuity	between audio amp	connectors and a	round	
	between addie amp.	sonnootoro ana g		
	Audio amp.		Cround	Continuity
Connector	Termir	nal	Ground	Continuity
	11			
M113	27		_	No
	12			
<u></u>	28			
s the inspection resu	<u>lit normal?</u>			
NO >> Repair of	r. r replace harness or c	onnectors.		
3. CHECK REAR DO	OR TWEETER SIGN	IAL (AUDIO AMP	.)	
I. Connect audio a	mp. connectors and s	uspect rear door t	weeter connector	
2. Turn ignition swit	ch to ACC.			
 Push AV control Check signal bet 	unit POWER switch. ween audio amp_con	nectors and arou	hd	
	Audio amp.			
Commente	(+)	(-)	Condition	Reference value
Connector				

Terminal

Terminal

REAR DOOR TWEETER

< DTC/CIRCUIT DIAGNOSIS >

11	27	
12	28	Audio signal output



Is the inspection result normal?

YES >> Replace rear door tweeter. Refer to AV-283. "Removal and Installation".

NO >> GO TO 4.

M113

4.CHECK REAR DOOR TWEETER SIGNAL CIRCUIT CONTINUITY (AV CONTROL UNIT)

1. Turn ignition switch to OFF.

2. Disconnect audio amp. connector M113 and AV control unit connector M43.

3. Check continuity between audio amp. connector M113 and AV control unit connector M43.

Audio	Audio amp.		AV control unit		
Connector	Terminal	Connector	Terminal	Continuity	
	24		4		
M113	8	M42	M43	5	Vec
	23	10145	13	165	
	7	*	14		

4. Check continuity between audio amp. connector M113 and ground.

Audio amp.		Cround	Continuity	
Connector	Terminal	Ground	Continuity	
M113	24			
	8		No	
	23		NU	
	7			

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness or connectors.

5.CHECK REAR DOOR TWEETER SIGNAL (AV CONTROL UNIT)

1. Connect audio amp. connector M113 and AV control unit connector M43.

2. Turn ignition switch to ACC.

3. Push AV control unit POWER switch.

4. Check signal between AV control unit connector M43 and ground.

AV control unit connector M43				
(+)	(-)	Condition	Reference value	
Terminal	Terminal			
4	5			
13	14	Audio signal output	(V) 1 0 -1 • 2ms SKIB3609E	

Is the inspection result normal?

REAR DOOR TWEETER

IC/C	CIRCUIT DIAGNOSIS >	[NAVIGATION WITH AMPLIFIER]
S)	>> Replace audio amp. Refer to <u>AV-286. "Removal and lu</u> >> Replace AV control unit. Refer to AV-277. "Removal a	nstallation". nd Installation".

REAR DOOR SPEAKER

Diagnosis Procedure

INFOID:000000013024737

Regarding Wiring Diagram information, refer to AV-191, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit, audio amp. and speaker connectors for the following:

- Proper connection
- Damage

Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair the terminals or connectors.

2.CHECK REAR DOOR SPEAKER SIGNAL CIRCUIT CONTINUITY (AUDIO AMP.)

1. Disconnect audio amp. connectors and suspect rear door speaker connector.

2. Check continuity between audio amp. connectors and suspect rear door speaker connector.

Audio amp.		Rear door speaker		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M113	11		1	- Yes	
	27	D207 (LT)	2		
	12	D307 (PH)	1		
	28	0307 (RH)	2	1	

3. Check continuity between audio amp. connectors and ground.

Audio amp. Connector Terminal		Ground	Continuity	
		Ground		
M113	11			
	27		No	
	12		140	
	28			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3.CHECK REAR DOOR SPEAKER SIGNAL (AUDIO AMP.)

1. Connect audio amp. connectors and suspect rear door speaker connector.

- 2. Turn ignition switch to ACC.
- 3. Push AV control unit POWER switch.

4. Check signal between audio amp. connectors and ground.

Audio amp.				
Connector	(+)	(-)	Condition	Reference value
	Terminal	Terminal		

REAR DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

M113 Is the inspection res YES >> Replace NO >> GO TO 4.CHECK REAR D	11 12 <u>ult normal?</u> e rear door speake 4. OOR SPEAKER S	27 28 er. Refer to <u>AV-2</u> SIGNAL CIRCU	Aud 283. "Remo	io signal output val and Installat	(V) 1 0 -1 2 ms skib3609E tion".	A B C D
 Disconnect aud Check continuit 	io amp. connector y between audio a	M113 and AV c mp. connector	control unit M113 and A	connector M43. V control unit c	connector M43.	E
Au	dio amp.		AV co	ntrol unit	Continuity	F
Connector	Terminal	Cor	nnector	Termina		
M113	24 8 23 7	I	M43	4 5 13 14	Yes	G
4. Check continuit	y between audio a	mp. connector	M113 and g	ground.		
	Audio amp.					
Connector	Connector Terminal		- Ground		Continuity	
M113	M113 24 8 23 7				No	J
Is the inspection res YES >> GO TO NO >> Repair of 5.CHECK REAR D 1. Connect audio a 2. Turn ignition sw 3. Push AV contro 4. Check signal be	ult normal? 5. or replace harness OOR SPEAKER S amp. connector M itch to ACC. I unit POWER swi stween AV control	or connectors. SIGNAL (AV CC 113 and AV con tch. unit connector I	DNTROL UI trol unit cor M43 and gr	NIT) nnector M43. ound.		L M AV
AV cor	ntrol unit connector M4	3				
(+)		(-)	Condition		Reference value	0
Terminal	Те	erminal				0
4		5				
13		14	Audio signal	output	(V) 1 0 -1 • 2ms SKIB3609E	Ρ

Is the inspection result normal?

REAR DOOR SPEAKER

< DTC/CIRCUIT DIAGNOSIS >

- YES
- >> Replace audio amp. Refer to <u>AV-286, "Removal and Installation"</u>.
 >> Replace AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>. NO
SUBWOOFER А Diagnosis Procedure INFOID:000000013232717 В Regarding Wiring Diagram information, refer to AV-191, "Wiring Diagram". **1.**CONNECTOR CHECK Check the audio amp. and subwoofer connectors for the following: Proper connection D Damage Disconnected or loose terminals Is the inspection result normal? Е YES >> GO TO 2. NO >> Repair or replace the harness or connectors. **2.**CHECK SUBWOOFER SIGNAL CIRCUIT CONTINUITY (AUDIO AMP.) F 1 Disconnect audio amp. connector M112 and subwoofer connector B105. 2. Check continuity between audio amp. connector M112 and subwoofer connector B105. Audio amp. Subwoofer Continuity Connector Terminal Connector Terminal Н 2 1 3 3 M112 B105 Yes 18 2 19 4 Check continuity between audio amp. connector M112 and ground. 3. Audio amp. Continuity Terminal Connector Κ 2 3 M112 Ground No L 18 19 Is the inspection result normal? Μ YES >> GO TO 3. NO >> Repair or replace the harness or connectors. **3.**CHECK SUBWOOFER SIGNAL (AUDIO AMP.) AV Connect audio amp. connector M112 and subwoofer connector B105. 1. 2. Turn ignition switch to ACC. Push "POWER" switch. 3. Check the signal between audio amp. harness connector M112 terminals with CONSULT or oscilloscope. 4. Ρ

< DTC/CIRCUIT DIAGNOSIS >

SUBWOOFER

< DTC/CIRCUIT DIAGNOSIS >

Audio amp. co	onnector M112 (-)	Condition	Reference
Terminal	Terminal		olgridi
2	18		
3	19	Receive audio signal	(V) 1 0 -1 SKIA0177E

Is the inspection result normal?

YES >> Replace subwoofer. Refer to <u>AV-283, "Removal and Installation"</u>.

NO >> GO TO 4.

4.CHECK SUBWOOFER SIGNAL CIRCUIT CONTINUITY (AV CONTROL UNIT)

1. Disconnect AV control unit connector M43 and audio amp. connector M113.

2. Check continuity between AV control unit harness connector M43 and audio amp. harness connector M113.

AV cor	ntrol unit	Audio amp.		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	4		24	
M42	5	M110	8	Vaa
1/143	13	INT IS	23	165
	14		7	

3. Check continuity between AV control unit harness connector M43 and ground.

Connector	Terminal	—	Continuity
	4		
MAB	5	Ground	
101-13	13	Cround	
	14		

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the harness or connectors.

5. CHECK SUBWOOFER SIGNAL (AV CONTROL UNIT)

1. Connect AV control unit connector M43 and audio amp. connector M113.

2. Turn ignition switch to ACC.

3. Push "POWER" switch.

4. Check the signal between AV control unit harness connector M43 terminals with CONSULT or oscilloscope.

SUBWOOFER

< DTC/CIRCUIT DIAGNOSIS >

AV control u	nit connector M43			А
(+)	(-)	Condition	signal	
Terminal	Terminal	=		В
4	5			D
13	14	Receive audio signal	(V) 1 0 -1 1 1 1 1 1 1 1 1 1 1 1 1 1	С
			SKIA0177E	D
Is the inspection result no	ormal?			
YES >> Replace audi	o amp. Refer to <u>AV-286, "Re</u>	moval and Installation".		Ε

YES >> Replace audio amp. Refer to <u>AV-286, "Removal and Installation"</u>.
 NO >> Replace AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>.

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MICROPHONE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:000000013232762

Regarding Wiring Diagram information, refer to AV-191, "Wiring Diagram".

1. CHECK MICROPHONE SIGNAL CIRCUIT CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect AV control unit connector M45 and microphone connector R5.
- 3. Check continuity between AV control unit connector M45 and microphone connector R5.

AV cor	itrol unit	Micro	phone	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	41		2	
M45	42	R5	4	Yes
	43		1	

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

AV cor	trol unit	Ground	Continuity
Connector	Terminal	Ground	Continuity
	41		
M45	42	—	No
	43		

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2. CHECK MICROPHONE VCC VOLTAGE

- 1. Connect AV control unit connector M45.
- 2. Turn ignition switch ON.
- 3. Check voltage between terminals of AV control unit connector M45.

AV control unit	connector M45	
(+)	(-)	Voltage (Approx.)
Terminal	Terminal	(++)
42	41	5.0 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>.

${\it 3.}$ CHECK MICROPHONE SIGNAL

1. Connect microphone connector.

2. Check signal between terminals of AV control unit connector M45.

MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

AV control unit	connector M45			А
(+)	(–)	Condition	Reference value	
Terminal	Terminal			В
43	41	Speak into microphone.	(V) 1 0 -1 • 2ms SKIB3609E	C

Is the inspection result normal?

>> Replace AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>.
> Replace microphone. Refer to <u>AV-291, "Removal and Installation"</u>. YES

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< DTC/CIRCUIT DIAGNOSIS >

STEERING SWITCH

Diagnosis Procedure

INFOID:000000013232763

Regarding Wiring Diagram information, refer to AV-191. "Wiring Diagram".

WITHOUT HEATED STEERING

1. CHECK STEERING WHEEL AUDIO CONTROL SWITCH RESISTANCE

1. Turn ignition switch OFF.

2. Disconnect combination switch connector M30.

3. Check resistance between combination switch connector terminals.

Combination swi	tch connector M88	Condition	Resistance Ω
Terminal	Terminal	Condition	(Approx.)
		Depress SOURCE switch.	1
		Depress Δ switch.	121
10		Depress $ abla$ switch.	321
		Depress 🖉 🏑 switch.	723
	10	Depress ENTER switch.	2023
	12	Depress 🗹 - switch.	1
		Depress 🗹 + switch.	121
14		Depress 🗪 switch.	321
		Depress menu right switch.	723
		Depress menu left switch.	2023

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace steering switches. Refer to <u>AV-289</u>, "Removal and Installation".

2. CHECK HARNESS BETWEEN COMBINATION SWITCH AND COMBINATION METER

1. Disconnect combination meter connector M24 and combination switch connector M30.

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

Combinat	tion meter	Combina	ation switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	1		12	
M24	22	M30	10	Yes
	23		14	

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

Combina	tion meter	Ground	Continuity
Connector	Terminal	Ground	Continuity
	1		
M24	22	_	No
	23		

Is the inspection result normal?

STEERING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	veen combination swi	tch connectors M30 a	nd M199.	
	Combina	ation switch		
Connector	Terminal	Connector	Terminal	Continuity
	10		16	
M30	12	M199	19	Yes
	14		17	
CHECK HARNES Disconnect AV co Check continuity	S BETWEEN COMBI	NATION METER AND 145. 1 meter connector M2	5 and AV control unit of	connector M45.
Combina	tion meter	AV co	ntrol unit	Continuity
Connector	Terminal	Connector	Terminal	-
M25	51	- M45	21	Yes
Connector	ombination meter	nal	Ground	Continuity
M25	51		_	No
	<u>lt normal?</u>			

STEERING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Combination switch connector M88		Condition	Resistance Ω
Terminal	Terminal	Condition	(Approx.)
		Depress SOURCE switch.	1
		Depress Δ switch.	121
9		Depress $ abla$ switch.	321
8	11	Depress 🖋 📢 switch.	723
		Depress ENTER switch.	2023
	11	Depress 乓- switch.	1
		Depress 🗹+ switch.	121
		Depress 🗪 switch.	321
		Depress menu right switch.	723
		Depress menu left switch.	2023

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace steering switches. Refer to <u>AV-289. "Removal and Installation"</u>.

2. CHECK HARNESS BETWEEN COMBINATION SWITCH AND COMBINATION METER

1. Disconnect combination meter connector M24 and combination switch connector M30.

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

Combinat	tion meter	Combina	ation switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	1		11	
M24	22	M30	9	Yes
	23		8	

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

Combination meter		Cround	Continuity	
Connector	Terminal	Gibuna	Continuity	
	1		No	
M24	22	_		
	23			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3.CHECK COMBINATION SWITCH

Check continuity between combination switch connectors M30 and M199.

Combination switch			Continuity	
Connector	Terminal	Connector	Terminal	Continuity
	9		16	
M30	11	M199	19	Yes
	8		17	

Is the inspection result normal?

YES >> GO TO 4.

STEERING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

NO >> Replace spiral cable. Refer to <u>SR-14, "Removal and Installation"</u>.

4. CHECK HARNESS BETWEEN COMBINATION METER AND AV CONTROL UNIT

1. Disconnect AV control unit connector M45.

2. Check continuity between combination meter connector M25 and AV control unit connector M45.

Combinat	ion meter	AV coi	ntrol unit	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	C
M25	51	MAE	21	Voc	_
10125	52	10145	22	165	_

3. Check continuity between combination meter connector M25 and ground.

Combination meter		Cround	Continuity	F
Connector	Terminal	Ground	Continuity	
M25	51		No	
WZ5	52	—	NO	F

Is the inspection result normal?

YES >> Replace AV control unit. Refer to <u>AV-277, "Removal and Installation"</u>.

NO >> Repair or replace harness or connectors.

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< DTC/CIRCUIT DIAGNOSIS >

USB CONNECTOR

Diagnosis Procedure

INFOID:000000013232764

Regarding Wiring Diagram information, refer to AV-191, "Wiring Diagram".

1. CHECK USB INTERFACE HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect AV control unit connector M143 and USB interface connector M185.
- 3. Check continuity between AV control unit connector M143 and USB interface connector M185.

AV con	trol unit	USB i	nterface	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
	45	 M185		1	
M143	47		3		
	48		4	Yes	
	49		5		
	50		6		

4. Check continuity between AV control unit connector M143 and ground.

AV control unit			Continuity	
Connector	Terminal	—	Continuity	
M1/3	45	Ground	No	
101145	48	Ground	NU	

Is the inspection result normal?

YES >> Replace the USB interface. Refer to <u>AV-278, "Removal and Installation"</u>.

NO >> Repair or replace harness or connectors.

AUXILIARY INPUT JACK

< DTC/CIRCUIT DIAGNOSIS >

AUXILIARY INPUT JACK

Diagnosis Procedure

Regarding Wiring Diagram information, refer to AV-191. "Wiring Diagram".

1. CHECK AUX IN JACK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect AV control unit connector M45 and AUX in jack connector M104.
- 3. Check continuity between AV control unit connector M45 and AUX in jack connector M104.

AV cor	ntrol unit	AUX	in jack	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
	30		6		_
M45	31	M104	3	Yes	
	32		1	_	
4. Check continuity	between AV control u	nit connector M45 and	d ground.	1	_ (

 AV control unit

 Continuity

 Connector
 Terminal

 M45
 30
 Ground
 No

Is the inspection result normal?

YES >> Replace the AUX in jack. Refer to <u>AV-278, "Removal and Installation"</u>.

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NO >> Repair or replace harness or connectors.

INFOID:000000013232765

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SYMPTOM DIAGNOSIS

MULTI AV SYSTEM

Symptom Table

RELATED TO AUDIO

INFOID:000000013024745

Symptoms	Check items	Probable malfunction location
The disk cannot be removed.	AV control unit	Malfunction in AV control unit. Refer to <u>AV-180, "On Board Diagnosis</u> <u>Function"</u> .
	No sound from all speakers.	 Speaker circuit shorted to ground. Refer to <u>AV-191, "Wiring Diagram"</u>. Audio amp. power supply and ground circuits malfunction. Refer to <u>AV-234, "AUDIO AMP. : Diagnosis Procedure"</u>.
No sound comes out or the level of the sound is low.	Only a certain speaker (front tweeter LH, front tweeter RH, center speaker, front pillar speaker LH, front pillar speaker RH, front door speaker LH, rear tweeter RH, rear door speaker LH, rear door speaker RH and sub- woofer) does not output sound.	 Poor connector connection of speaker. Sound signal circuit malfunction between audio amp. and speaker and AV control unit and audio amp. Refer to: AV-236. "Diagnosis Procedure" (front tweeter). AV-239. "Diagnosis Procedure" (center speaker). AV-244. "Diagnosis Procedure" (front pil- lar speaker). AV-244. "Diagnosis Procedure" (front door speaker). AV-247. "Diagnosis Procedure" (rear tweeter). AV-250. "Diagnosis Procedure" (rear door speaker). AV-250. "Diagnosis Procedure" (rear door speaker). AV-250. "Diagnosis Procedure" (sub- woofer). Malfunction in speaker. Refer to: AV-279. "Removal and Installation" (front tweeter). AV-280. "Removal and Installation" (front tweeter). AV-281. "Removal and Installation" (front pillar speaker). AV-281. "Removal and Installation" (front door speaker). AV-281. "Removal and Installation" (front pillar speaker). AV-283. "Removal and Installation" (rear tweeter). AV-283. "Removal and Installation" (sub- woofer). Malfunction in AV control unit. Refer to AV-180. "On Board Diagnosis Function". Malfunction in audio amp. Replace audio amp. Refer to AV-286. "Removal and Installation".

MULTI AV SYSTEM

< SYMPTOM DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

Symptoms	Check items	Probable malfunction location
	Noise comes out from all speakers.	 Malfunction in AV control unit. Refer to <u>AV-180</u>, "On <u>Board Diagnosis</u> <u>Function"</u>. Malfunction in audio amp. Replace audio amp. Refer to <u>AV-286</u>. "<u>Removal and Installation</u>".
Noise is mixed with audio.	Noise comes out only from a certain speak- er (front tweeter LH, front tweeter RH, cen- ter speaker, front pillar speaker LH, front pillar speaker RH, front door speaker LH, front door speaker RH, rear tweeter LH, rear tweeter RH, rear door speaker LH, rear door speaker RH and subwoofer).	 Poor connector connection of speaker. Sound signal circuit malfunction between audio amp. and speaker and AV control unit and audio amp. Refer to: AV-236. "Diagnosis Procedure" (front tweeter). AV-239. "Diagnosis Procedure" (center speaker). AV-244. "Diagnosis Procedure" (front pil- lar speaker). AV-244. "Diagnosis Procedure" (front door speaker). AV-247. "Diagnosis Procedure" (rear tweeter). AV-250. "Diagnosis Procedure" (rear door speaker). AV-250. "Diagnosis Procedure" (rear door speaker). AV-250. "Diagnosis Procedure" (sub- woofer). Malfunction in speaker. Refer to: AV-279. "Removal and Installation" (front tweeter). AV-280. "Removal and Installation" (cen- ter speaker). AV-281. "Removal and Installation" (front pillar speaker). AV-281. "Removal and Installation" (front door speaker). AV-281. "Removal and Installation" (rear tweeter). AV-283. "Removal and Installation" (rear door speaker). AV-283. "Removal and Installation" (rear tweeter). AV-283. "Removal and Installation" (sub- woofer). Malfunction in AV control unit. Refer to AV-180. "On Board Diagnosis Function". Malfunction in audio amp. Replace audio amp. Refer to <u>AV-286. "Removal and Installation"</u>.
	Noise is mixed with radio only (when the vehicle hits a bump or while driving over bad roads)	Poor connector connection of antenna or antenna feeder. Refer to <u>AV-174, "Antenna and Antenna</u> <u>Feeder"</u> .
No radio reception or poor reception.	 Other audio sounds are normal. Any radio station cannot be received or poor reception is caused even after mov- ing to a service area with good reception (e.g. a place with clear view and no ob- stacles generating external noises). 	Poor connector connection of antenna or antenna feeder. Refer to <u>AV-174, "Antenna and Antenna</u> <u>Feeder"</u> .

MULTI AV SYSTEM

< SYMPTOM DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

Symptoms	Check items	Probable malfunction location
No satellite radio reception.	There is malfunction in the CONSULT self diagnosis result. Refer to <u>AV-181, "CONSULT Function"</u> .	 Malfunction in antenna, antenna feeder or AV control unit. Perform DTC diagno- sis. Refer to <u>AV-227. "Diagnosis Procedure"</u>. Poor continuity in antenna feeder. Poor connector connection of antenna or antenna feeder. Refer to <u>AV-174. "Antenna and Antenna Feeder"</u>.
	There is no malfunction in the CONSULT self diagnosis result. Refer to <u>AV-181, "CONSULT Function"</u> .	 Poor continuity in antenna feeder. Poor connector connection of antenna or antenna feeder. Loose satellite radio antenna mounting nut. Refer to <u>AV-174. "Antenna and Antenna Feeder"</u>.
Buzz/rattle sound from speaker	The majority of buzz/rattle sounds are not indicative of an issue with the speaker, usu- ally something nearby the speaker is caus- ing the buzz/rattle.	Refer to "SQUEAK AND RATTLE TROU- BLE DIAGNOSIS" in the appropriate interi- or trim section.

RELATED TO HANDS-FREE PHONE

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

Check Compatibility

- 1. Make sure the customer's Bluetooth[®] related concern is understood.
- 2. Verify the customer's concern. **NOTE:**

The customer's phone may be required, depending upon their concern.

- 3. Write down the customer's phone brand, model and service provider.
 - NOTE:

It is necessary to know the service provider. On occasion, a given phone may be on the approved list with one provider, but may not be on the approved list with other providers.

- 4. Go to "www.nissanusa.com/bluetooth/".
- a. Using the website's search engine, find out if the customer's phone is on the approved list.
- b. If the customer's phone is NOT on the approved list:

Stop diagnosis here. The customer needs to obtain a Bluetooth[®] phone that is on the approved list before any further action.

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

MULTI AV SYSTEM

< SYMPTOM DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

Symptoms	Check items	Probable malfunction location	
Does not recognize cellular phone connec- tion (no connection is displayed on the dis- play at the guide).	Repeat the registration of cellular phone.		E
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 per- formed, however, voice between each other cannot be heard during the conver- sation. 	Malfunction in AV control unit. Replace AV control unit. Refer to <u>AV-289,</u> "Removal and Installation".	C
The other party's voice cannot be heard by hands-free phone.	Check the "microphone speaker" in Inspec- tion & Adjustment Mode if sound is heard.		
Originating sound is not heard by the other	Sound operation function is normal.		E
party with hands-free phone communica- tion.	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to <u>AV-256, "Diagnosis Procedure"</u> .	
	 The voice recognition can be controlled. Steering switch's ↓ and ↓ and ↓ switch works, but ℓ √ to does not work. 	Steering switch malfunction. Replace steering switch. Refer to <u>AV-289.</u> "Removal and Installation".	F
The system cannot be operated.	Steering switch's \mathbf{r}_{ψ} , \mathbf{V} + and \mathbf{V} - switches do not work.	Steering switch signal circuit malfunction. Refer to <u>AV-258, "Diagnosis Procedure"</u> .	(
	All steering switches do not work.	Steering switch ground circuit malfunction. Refer to <u>AV-258, "Diagnosis Procedure"</u> .	ŀ

RELATED TO NAVIGATION

Symptoms	Check items	Probable malfunction location
Navigation system is inoperative.	Navigation malfunction.	 Malfunction in SD card. Malfunction in AV control unit. Refer to <u>AV-180, "On Board Diagnosis</u> <u>Function"</u>.
	Steering switches malfunction.	Steering switch signal circuit malfunction. Refer to <u>AV-258, "Diagnosis Procedure"</u> .
	Voice activated control malfunction.	Microphone signal circuit malfunction. Refer to <u>AV-256, "Diagnosis Procedure"</u> . Steering switch signal circuit malfunction. Refer to <u>AV-258, "Diagnosis Procedure"</u> .

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Description

INFOID:000000013024746

[NAVIGATION WITH AMPLIFIER]

RELATED TO NOISE

The majority of the audio concerns are the result of outside causes (bad CD, electromagnetic interference, etc.).

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

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

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

NOTE:

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

Type of Noise and Possible Cause

Occurrence condition		Possible cause
Occurs only when engine is ON. A continuous growling noise occurs. The speed of the noise varies with changes in the engine speed.		Ignition components
The occurrence of the noise is lin	ked with the operation of the fuel pump.	Fuel pump condenser
Noise only occurs when various	A cracking or snapping sound occurs with the operation of various switches.	 Relay malfunction, AV control unit malfunc- tion
ating.	The noise occurs when various motors are operat- ing.	Motor case groundMotor
The noise occurs constantly, not just under certain conditions.		Rear defogger coil malfunctionOpen circuit in printed heaterPoor ground of antenna feeder line
A cracking or snapping sound occurs while the vehicle is being driven, especially when it is vibrating excessively.		Ground wire of body partsGround due to improper part installationWiring connections or a short circuit

RELATED TO HANDS-FREE PHONE

Symptom	Cause and Counter measure
Does not recognize cellular phone connection (No connection is displayed on the display at the guide).	Some Bluetooth [®] enabled cellular phones may not be recognized by the in-vehicle phone module. Refer to "RELATED TO HANDS-FREE PHONE (Check Compati- bility)" in <u>AV-264, "Symptom Table"</u> .
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 dis-
	charge quicker than usual. The Bluetooth [®] Hands-Free Phone System cannot charge cellular phones.

< SYMPTOM DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

С

Symptom	Cause and Counter measure	Δ
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.	A
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.	В

RELATED TO NAVIGATION

Basic Operation

Symptom	Cause	Remedy	L
No image is shown.	Display brightness adjustment is set fully to DARK side.	Adjust the display brightness.	F
No guide sound is heard.	Volume control is set to OFF, MIN or MAX.	Adjust the audio guide volume.	
Audio guide volume is too low or too high.	Audio guidance is not available while the vehicle is driving on a dark pink route.	System is not malfunctioning.	F
Screen is too dark. Motion of the image is too slow.	Temperature inside the vehicle is low.	Wait until the temperature inside the vehicle reaches the proper temperature.	
Small black or bright spots appear on the screen.	Symptom peculiar to a liquid crystal display (display unit).	System is not malfunctioning.	G

Vehicle Mark

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Symptom	Cause	Remeay	
Map screen and BIRDVIEW™ Name of the place vary with the screen.	Some thinning of the character data is done to pre- vent the display becoming to complex. In some cases and in some locations, the display contents may differ. The same place name, street name, etc. may not be displayed every time on account of the data processing.	System is not malfunctioning.	J
Vehicle mark is not positioned cor- rectly.	Vehicle is transferred by ferry or by towing after its ignition switch is turned to OFF.	Drive the vehicle for a while in the GPS sat- ellite signal receiving condition.	K
Screen will not switch to nighttime mode after the lighting switch is turned ON.	The daytime screen is selected by the "SWITCH SCREENS" when the last time the screen dim- ming setting is done. Switching between daytime/nighttime screen may be inhibited by the automatic illumination adjust-	Perform screen dimming and select the nighttime screen by "SWITCH SCREENS".	L
	ment function.		
Map screen will not scroll in accor- dance with the vehicle travel.	Current location is not displayed.	Press "MAP" button to display the current lo- cation.	M
Vehicle mark will not be shown.	Current location is not displayed.	Press "MAP" button to display the current lo- cation.	AV
Accuracy indicator (GPS satellite mark) on the map screen stays	GPS satellite signal is intercepted because the vehicle is in or behind a building.	Move the vehicle out to an open space.	
gray.	GPS satellite signal cannot be received because an obstacle is placed on top of the instrument pan- el.	Do not place anything on top of the meter display (instrument panel).	0
	GPS satellites are not visible from current location.	Wait until GPS satellites are visible by mov- ing the vehicle.	Ρ

< SYMPTOM DIAGNOSIS >

Symptom	Cause	Remedy
Vehicle location accuracy is low.	Accuracy indicator (GPS satellite mark) on the map screen stays gray.	Current location is not determined.
	Vehicle speed setting by the vehicle speed pulse has been deviated (advanced or retarded) from the actual vehicle speed because tire chain is fit- ted or the system has been used on another vehi- cle.	Drive the vehicle for a while [for approx. 30 minutes at approx. 30 km/h (19 MPH)] and the deviation will be automatically adjusted. If advancement or retard still occur, perform the distance adjustment by CONFIRMA-TION/ADJUSTMENT mode of diagnosis function.
	Map data has error or omission. (Vehicle mark is always deviated to the same position.)	As a rule, an updated map DVD–ROM will be released once a year.

Destination, Passing Points and Menu Items Cannot be Selected/Set

Symptom	Cause	Remedy
Destination cannot be set.	Destination to be set is on an expressway.	Set the destination on an ordinary road.
Passing point is not searched when re-searching the route.	The vehicle has already passed the passing point, or the system judged so.	To include the passing points that have been passed into the route again, set the route again.
Route information will not be displayed.	Route searching has not been done.	Set the destination and perform route searching.
	Vehicle mark is not on the recommended route.	Drive on the recommended route.
	Route guide is turned OFF.	Turn route guide ON.
	Route information is not available on the dark pink route.	System is not malfunctioning.
After the route searching, no guide sign will appear as the vehicle goes near the entrance/exit to the toll road.	Vehicle mark is not on the recommended route. (On the display, only guide signs related to the rec- ommended route will be shown.)	Drive on the recommended route.
Automatic route searching is not possible.	Vehicle is driving on a highway (gray route), or no recommended route is available.	Drive on a road to be searched. Or re–search the route manually. In this case, however, the whole route will be searched.
Performed automatic detour search (or detour search). Howev- er, the result is the same as that of the previous search.	Performed search with every condition consid- ered. However, the result is the same as that of the previous search.	System is not malfunctioning.
Passing points cannot be set.	More than five passing points were set.	Passing points can be set up to five. To stop at more than five points, perform sharing in several steps.
When setting the route, the starting point cannot be selected.	The current vehicle location is always set as the starting point of a route.	System is not malfunctioning.
Some menu items cannot be se- lected.	The vehicle is being driven.	Stop the vehicle at a safe place and then operate the system.

Voice Guide

< SYMPTOM DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

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Symptom	Cause	Remedy	edy A
Voice guide will not operate.	Note: Voice guide is only available at intersections that satisfy certain conditions (indicated by \bullet on the map). Therefore, guidance may not be given even when the route on the map changes direction.	System is not malfunctioning.	В
	The vehicle is not on the recommended route.	Return to the recommended route or re- search the route.	C
	Voice guide is turned OFF.	Turn voice guide ON.	U
	Route guide is turned OFF.	Turn route guide ON.	
Voice guide does not match the ac- tual road pattern.	Voice guide may vary with the direction to which the vehicle is turned and the connection of the road to other roads.	Drive in conformity to the actual traffic rules.	D

Route Search

Symptom	Cause	Remedy
No route is shown.	No road to be searched is found around the des- tination.	Find wider road (orange road or wider) near- by and reset the destination and passing points onto it. Take care of the traveling direc- tion when there are separate up and down roads.
	Starting point and the destination are too close.	Set the destination at more distant point.
	Conditional traffic regulation (day of the week/ time of the day) is set at the area around the cur- rent location or the destination.	Turn the time-regulating search conditions OFF. Turn "Avoid regulation time" in the search conditions OFF.
Indicated route is intermittent.	In some areas, highways (gray routes) are not used for the search ^(Note) Therefore, the route to the current location or the passing points may be intermittent.	System is not malfunctioning.
When the vehicle has passed the recommended route, it is deleted from the screen.	A recommended route is controlled by each sec- tion. When the vehicle has passed the passing point 1, then the map data from the starting point up to the passing point 1 will be deleted. (The data may remain undeleted in some area.)	System is not malfunctioning.
Detouring route is recommended.	In some areas, highways (gray routes) are not used for the search. (Note). Therefore, detour route may be recommended.	Set the route closer to the basic route (gray route).
	A detour route may be shown when some traffic regulation (one-way traffic, etc.) is set at the area around the starting point or the destination.	Slightly move the starting point or the destina- tion, or set the passing point on the route of your choice.
	In the area where highways (gray routes) are used for the search, left turn has priority around the current location and the destination (passing points). For this reason, the recommended route may be detouring.	System is not malfunctioning.
Landmarks on the map do not match the actual ones.	This can happen due to omission or error in the map data.	As a rule, an updated map DVD-ROM will be released once a year. Wait until the latest map has become available.
Recommended route is far from the starting point, passing points, and destination.	Starting point, passing points, and destination of the route guide were set far from the desired points because route searching data around these area were not stored.	Reset the destination onto the road nearby. If this road is one of the highways (gray routes), an ordinary road nearby may be displayed as the recommended route.

NOTE:

Except for the ordinance-designated cities. (Malfunctioning areas may be changed in the updated map disc.)

Examples of Current-Location Mark Displacement

< SYMPTOM DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

Vehicle's travel amount is calculated by reading its travel distance and turning angle. Therefore, if the vehicle is driven in the following manner, an error will occur in the vehicle's current location display. If correct location has not been restored after driving the vehicle for a while, perform location correction.



< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

[NAVIGATION WITH AMPLIFIER]

Cause (con	dition) –: While driving	ooo: Display	Driving condition	Remarks (correction, etc.)	А
	Y-intersections	ELK0192D	At a Y intersection or similar gradual divi- sion of roads, an error in the direction of travel deduced by the sensor may result in the current-location mark appearing on the wrong road.		B
	Spiral roads				D
		ELK0193D	road (such as loop bridge), turning angle error is accumulated and the vehicle mark may deviate from the correct location.		E
	Straight roads		When driving on a long straight road and		F
			slow curve without stopping, map-matching does not work effectively enough and dis- tance errors may accumulate. As a result, the vehicle mark may deviate from the cor- rect location when the vehicle is turned at a	If after travelling about 10 km (6	G
Road config-		ELK0194D	comer.	miles) the correct location has not been restored, perform lo-	Н
uration	Zigzag roads	When driving on a zigzag road, the map may be matched to other roads in the simi- lar direction nearby at every turn, and the vehicle mark may deviate from the correct location.	cation correction and, if neces- sary, direction correction.	J	
		ELK0195D			
	Roads laid out in a grid	pattern	When driving where roads are laid out in a		K
		ning in the similar direction nearby, the map may be matched to them by mistake and the vehicle mark may deviate from the cor- rect location.	-	L	
	Parallel roads	ELK0196D			M
	5		When two roads are running in parallel (such as highway and sideway), the map may be matched to the other road by mis-		AV
		ELK0197D	take and the vehicle mark may deviate from the correct location.		0

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< SYMPTOM DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

Cause (condition) –: While driving ooo: Display		Driving condition	Remarks (correction, etc.)
Place	In a parking lot Parking lot SEL709V	When driving in a parking lot, or other loca- tion where there are no roads on the map, matching may place the vehicle mark on a nearby road. When the vehicle returns to the road, the vehicle mark may have devi- ated from the correct location. When driving in circle or turning the steer- ing wheel repeatedly, direction errors accu- mulate, and the vehicle mark may deviate from the correct location.	If after travelling about 10 km (6 miles) the correct location has not been restored, perform lo- cation correction and, if neces- sary, direction correction.
	Turntable	When the ignition switch is OFF, the navi- gation system cannot get the signal from the gyroscope (angular speed sensor). Therefore, the displayed direction may be wrong and the correct road may not be eas- ily returned to after rotating the vehicle on a turntable with the ignition OFF.	
	Slippery roads	On snow, wet roads, gravel, or other roads where tires may slip easily, accumulated mileage errors may cause the vehicle mark to deviate from the correct road.	
	Slopes	When parking in sloped garages, when travelling on banked roads, or in other cas- es where the vehicle turns when tilted, an error in the turning angle will occur, and the vehicle mark may deviate from the road.	
Map data	Road not displayed on the map screen	When driving on new roads or other roads not displayed on the map screen, map matching does not function correctly and matches the location to a nearby road. When the vehicle returns to a road which is on the map, the vehicle mark may deviate from the correct road.	
	Different road pattern (Changed due to repair)	If the road pattern stored in the map data and the actual road pattern are different, map matching does not function correctly and matches the location to a nearby road. The vehicle mark may deviate from the cor- rect road.	
Vehicle	Use of tire chains	When tire chains are used, the mileage is not correctly detected, and the vehicle mark may deviate from the correct road.	Drive the vehicle for a while. If the distance still deviates, ad- just it by using the distance ad- justment function. (If the tire chain is removed, recover the original value.)

< SYMPTOM DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

Cause (condition) -: While driving ooo: Display		Driving condition	Remarks (correction, etc.)	^
Precautions for driving	Just after the engine is started	If the vehicle is driven just after the engine is started when the gyroscope (angular speed sensor) correction is not completed, the vehicle can lose its direction and may have deviated from the correct location.	Wait for a short while before driving after starting the engine.	B
	Continuous driving without stopping	When driving long distances without stop- ping, direction errors may accumulate, and the current-location mark may deviate from the correct road.	Stop and adjust the orientation.	С
	Abusive driving	Spinning the wheels or engaging in other kinds of abusive driving may result in the system being unable perform correct detec- tion, and may cause the vehicle mark to de- viate from the correct road.	If after travelling about 10 km (6 miles) the correct location has not been restored, perform location correction and, if necessary, direction correction.	D
How to cor- rect location	Position correction accuracy Within 1 mm (0.04 in)	If the accuracy of location settings is poor, accuracy may be reduced when the correct road cannot be found, particularly in places where there are many roads.	Enter in the road displayed on the screen with an accuracy of approx. 1mm. Caution: Whenever possible, use detailed map for the correc- tion.	F
	Direction when location is corrected Direction calibration adjustment	If the accuracy of location settings during correction is poor, accuracy may be re- duced afterwards.	Perform direction correction.	H

Location Correction by Map-Matching is Slow

- The map-matching function needs to refer to the data of the surrounding area. It is necessary to drive some distance for the function to work.
- Because map-matching operates on this principle, when there are many roads running in similar directions in the surrounding area, no matching determination may be made. The location may not be corrected until some special feature is found.

Name of Road is Not Displayed

The current road name may not be displayed if there are no road names displayed on the map screen.

Contents of Display Differ for Birdview[™] and the (Flat) Map Screen

Difference of the BIRDVIEW[™] screen from the flat map screen are as follows.

- The current place name displays names which are primarily in the direction of vehicle travel.
- The amount of time before the vehicle travel or turn angle is updated on the screen is longer than for the (flat) map display.
- The conditions for display of place names, roads, and other data are different for nearby areas and for more distant areas.
- Some thinning of the character data is done to prevent the display becoming too complex. In some cases and in some locations, the display contents may differ.
- The same place name, street name, etc. may be displayed multiple times.

Vehicle Mark Shows a Position Which is Completely Wrong

In the following cases, the vehicle mark may appear on completely different position in the map depending on the GPS satellite signal receiving conditions. In this case, perform location correction and direction correction.

- When location correction has not been done
- If the receiving conditions of the GPS satellite signal is poor, if the vehicle mark becomes out of place, it may move to a completely different location and not come back if location correction is not done. The position will be corrected if the GPS signal can be received.
- When the vehicle has traveled by ferry, or when the vehicle has been being towed

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< SYMPTOM DIAGNOSIS >

[NAVIGATION WITH AMPLIFIER]

- Because calculation of the current location cannot be done when traveling with the ignition off, for example when traveling by ferry or when being towed, the location before travel is displayed. If the precise location can be detected with GPS, the location will be corrected.

Vehicle Mark Jumps

In the following cases, the vehicle mark may appear to jump as a result of automatic correction of the current location.

- When map matching has been done
- If the current location and the vehicle mark are different when map matching is done, the vehicle mark may seem to jump. At this time, the location may be "corrected" to the wrong road or to a location which is not on a road.
- When GPS location correction has been done
- If the current location and the vehicle mark are different when the location is corrected using GPS measurements, the vehicle mark may seem to jump. At this time, the location may be "corrected" to a location which is not on a road.

Vehicle Mark is in a River or Sea

The navigation system moves the vehicle mark with no distinction between land and rivers or sea. If the vehicle mark is somehow out of place, it may appear that the vehicle is driving in a river or the sea.

Vehicle Mark Automatically Rotates

The system wrongly memorizes the rotating status as stopping when the ignition switch is turned ON with the turntable rotating. That causes the vehicle mark to rotate when the vehicle is stopped.

When Driving on Same Road, Sometimes Vehicle Mark is in Right Place and Sometimes it is in Wrong Place The conditions of the GPS antenna (GPS data) and gyroscope (angular speed sensor) change gradually. Depending on the road traveled and the operation of the steering wheel, the location detection results will be different. Therefore, even on a road on which the location has never been wrong, conditions may cause the vehicle mark to deviate.

REMOVAL AND INSTALLATION AV CONTROL UNIT

Exploded View

INFOID:000000013024747

[NAVIGATION WITH AMPLIFIER]



- 1. AV control unit
- AV control unit bracket (RH) 4

Removal and Installation

REMOVAL

CAUTION:

Before replacing AV control unit, perform "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT" to save current vehicle specification. Refer to <u>AV-211</u>, "ADDITIONAL SERVICE WHEN REPLAC-AV **ING AV CONTROL UNIT : Description".**

- Disconnect battery or batteries. Refer to <u>PG-174, "Battery Disconnect"</u>.
- 2. Remove cluster lid C lower. Refer to IP-17, "CLUSTER LID C LOWER : Removal and Installation".
- Remove A/C switch assembly. Refer to <u>HAC-117, "Removal and Installation"</u>.
- Remove AV control unit bracket screws, then pull out AV control unit. 4.
- Disconnect harness connectors from AV control unit and remove AV control unit. 5.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After replacing AV control unit, perform "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT" to configure and register AV control unit. Refer to AV-211, "ADDITIONAL SERVICE WHEN **REPLACING AV CONTROL UNIT : Description".**

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[NAVIGATION WITH AMPLIFIER]

USB INTERFACE AND AUX IN JACK

Exploded View

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1. Cluster lid C lower

2. USB interface and aux in jack () Pawl

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Removal and Installation

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REMOVAL

- 1. Remove cluster lid C lower. Refer to IP-17. "CLUSTER LID C LOWER : Removal and Installation".
- 2. Disconnect harness connector from USB interface and aux in jack.
- 3. Release pawls using suitable tool and remove USB interface and aux in jack.

INSTALLATION

Installation is in the reverse order of removal.

< REMOVAL AND INSTALLATION > FRONT TWEETER

Removal and Installation

REMOVAL

- 1. Remove front pillar finisher. Refer to INT-20. "FRONT PILLAR FINISHER : Removal and Installation".
- 2. Remove defroster grille. Refer to <u>VTL-9</u>, "Exploded View".
- 3. Remove speaker grille. Refer to <u>IP-14, "Exploded View"</u>.
- 4. Remove front tweeter screws (A).
- 5. Disconnect harness connector from front tweeter (1) and remove front tweeter.



Installation Installation is in the reverse order of removal.



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CENTER SPEAKER

Removal and Installation

REMOVAL

- 1. Remove center speaker grille. Refer to <u>IP-14, "Exploded View"</u>.
- 2. Remove center speaker screws (A).
- 3. Pull out center speaker (1), disconnect harness connector from center speaker and remove center speaker.



INSTALLATION Installation is in the reverse order of removal. INFOID:000000013024752

FRONT DOOR SPEAKER

Removal and Installation

REMOVAL

- 1. Remove front door finisher. Refer to INT-14, "Removal and Installation".
- 2. Remove front door speaker screws (A).
- 3. Disconnect harness connector from front door speaker (1) and remove front door speaker.



INSTALLATION Installation is in the reverse order of removal.

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FRONT SPEAKER

Removal and Installation

REMOVAL

- 1. Remove front pillar finisher. Refer to INT-14, "Exploded View".
- 2. Remove front speaker screws (A).
- 3. Disconnect harness connector from the front speaker (1) and remove front speaker.



INSTALLATION Installation is in the reverse order of removal. INFOID:000000013234125

REAR DOOR SPEAKER

Removal and Installation

REMOVAL

- 1. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
- 2. Remove rear door speaker screws (A).
- 3. Disconnect harness connector from rear door speaker (1) and remove rear door speaker.



INSTALLATION Installation is in the reverse order of removal.

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[NAVIGATION WITH AMPLIFIER]

[NAVIGATION WITH AMPLIFIER]

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REAR DOOR TWEETER

Removal and Installation

REMOVAL

- 1. Remove the rear door finisher. Refer to INT-17, "Removal and Installation".
- 2. Remove the rear door tweeter screws (A).
- 3. Disconnect the harness connector from the rear tweeter (1) and remove rear tweeter.



INSTALLATION Installation is in the reverse order of removal.

SUBWOOFER

Removal and Installation

REMOVAL

- 1. Remove front seat (RH). Refer to SE-100. "Removal and Installation Captain Seats".
- 2. Remove subwoofer screws (A).
- 3. Disconnect harness connector from subwoofer (1) and remove subwoofer.



INSTALLATION Installation is in the reverse order of removal.

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AUDIO AMP

Removal and Installation

REMOVAL

- 1. Remove front seat (LH). Refer to <u>SE-100, "Removal and Installation Captain Seats"</u>.
- 2. Remove kick plate screws (A) and kick plate (1).





4. Disconnect harness connectors from audio amp (1) and remove audio amp.



INSTALLATION Installation is in the reverse order of removal.

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SATELLITE RADIO ANTENNA

Removal and Installation

SATELLITE RADIO ANTENNA

REMOVAL

- 1. Partially remove headliner. Refer to INT-32, "Removal and Installation".
- 2. Disconnect the harness connector (A) from the satellite radio antenna connector.
- 3. Remove the satellite radio antenna nut (B).



4. Remove the satellite radio antenna.

INSTALLATION

Installation is in the reverse order of removal.

Satellite radio antenna nut : 10.1 N·m (1.0 kg-m, 7.0 ft-lb)

CAUTION:

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

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GPS ANTENNA

[NAVIGATION WITH AMPLIFIER]

Removal and Installation

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REMOVAL

- 1. Remove instrument panel assembly. Refer to IP-14, "Removal and Installation".
- 2. Remove GPS antenna screw and GPS antenna.

INSTALLATION

Installation is in the reverse order of removal.
STEERING SWITCH

< REMOVAL AND INSTALLATION >

STEERING SWITCH

Exploded View

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[NAVIGATION WITH AMPLIFIER]



Removal and Installation

REMOVAL

- 1. Remove steering wheel. Refer to ST-34, "Removal and Installation".
- 2. Remove steering wheel rear cover screws and steering wheel rear cover.
- 3. Remove steering wheel switch screws and steering wheel switches.

INSTALLATION

Installation is in the reverse order of removal.

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< REMOVAL AND INSTALLATION >

ROD ANTENNA

Removal and Installation

REMOVAL

- 1. Remove antenna rod.
- 2. Remove fender protector. Refer to EXT-32, "Removal and Installation Front Fender Protector".
- 3. Remove bolt (A) from rod antenna bracket (1).



[NAVIGATION WITH AMPLIFIER]

- 4. Disconnect the rod antenna feeder from the rod antenna.
- 5. Remove rod antenna.

INSTALLATION

Installation is in the reverse order of removal.

• Tighten rod antenna to specification.

Rod antenna

: 7.0 N·m (0.71 kg-m, 62 in-lb)

CAUTION:

Always properly tighten the rod antenna during installation or the rod antenna may bend or break during vehicle operation.

< REMOVAL AND INSTALLATION >

MICROPHONE

Removal and Installation

REMOVAL

- 1. Remove front room/map lamp assembly. Refer to INL-68. "Removal and Installation".
- 2. Disconnect harness connector from microphone (A).
- 3. Release pawls using suitable tool and remove microphone (1) from front room/map lamp assembly (2).

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INSTALLATION Installation is in the reverse order of removal.

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< 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. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

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

Cautions in Removing Battery Terminal and AV Control Unit

CAUTION:

Remove battery terminal or terminals 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 display control unit and the AV control unit continue operating for approximately 30 seconds.

Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

Precaution for Trouble Diagnosis

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M-CAN 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 or cables from the negative terminal or terminals before checking the circuit. Refer to <u>PG-174</u>, "<u>Battery Disconnect</u>".

Precaution for Harness Repair

AV COMMUNICATION SYSTEM

Revision: March 2016

PRECAUTIONS

< PRECAUTION >

[AROUND VIEW MONITOR SYSTEM]

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



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

Precaution for Work

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- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- · Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

PREPARATION

Special Service Tools

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

Tool number (TechMate No.) Tool name		Description	
 (J-46534) Trim Tool Set	ANJIA048322	Removing trim components	

Commercial Service Tools

INFOID:000000013023618

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

COMPONENT PARTS

[AROUND VIEW MONITOR SYSTEM]

< SYSTEM DESCRIPTION > SYSTEM DESCRIPTION **COMPONENT PARTS**

Component Parts Location



No.	Component	Function	M
1.	Rear view camera	Refer to AV-296, "Rear Camera".	
2.	AV control unit	Refer to AV-171, "AV Control Unit".	
3.	Back-up lamp relay	Supplies the reverse signal to the around view monitor and AV control unit.	AV
4.	Door mirror RH	Refer to AV-296, "Side Camera".	
5.	Front camera	Refer to AV-296, "Front Camera".	0
6.	A/T assembly (VK56VD)	Refer to TM-266, "A/T CONTROL SYSTEM : Transmission Range Switch".	
7.	Transmission range switch (Cum- mins 5.0L)	Refer to TM-17, "A/T CONTROL SYSTEM : Transmission Range Switch".	P
8.	Combination meter	Refer to MWI-12, "METER SYSTEM : Combination Meter".	
9.	Around view monitor control unit	Refer to AV-296, "Around View Monitor Control Unit".	
10.	Door mirror LH	Refer to AV-296, "Side Camera".	

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< SYSTEM DESCRIPTION >

Around View Monitor Control Unit

- The around view monitor control unit is installed under the left front seat.
- Necessary signals are transmitted/received to/from control unit via CAN communication.
- Camera image signals received from each camera are converted/ synthesized in the around view monitor control unit and transmitted to the AV 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 in the front grille.
- 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.



- The side camera is installed in the door mirror.
- 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.



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[AROUND VIEW MONITOR SYSTEM]



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INFOID:000000013023622

Rear Camera

- The rear camera is installed next to the tailgate handle.
- 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.

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Steering Angle Sensor

- Steering angle sensor is installed to the spiral cable.
- Steering angle sensor 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.



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< SYSTEM DESCRIPTION >

SYSTEM

System Description

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[AROUND VIEW MONITOR SYSTEM]

SYSTEM DIAGRAM



DESCRIPTION

- This system is equipped with wide-angle cameras on the front, rear and right and left door mirrors.
- Images from front view, rear view, front-side view (RH side), and birds-eye view are displayed to monitor the vehicle surroundings.
- Around view monitor control unit expands the image received from each camera to create each view.
- In front view and rear view, the vehicle width, distance lines and predictive course lines are displayed.
- In front-side view, the vehicle distance guiding line and vehicle width guiding line are displayed.
- Birds-eye view converts the images from the cameras into an overhead view and displays the status of the vehicle on the display. The vehicle icon that is displayed in the birds-eye view is depicted by the around view monitor control unit.
- Moving Object Detection (MOD) is adopted and detects moving objects according to camera image and notifies the detection result to the driver.

AROUND VIEW MONITOR DISPLAY

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

The around view monitor combines and displays travel direction view (front or rear), front-side view and birdseye view.



OPERATION DESCRIPTION

- The around view monitor operates by pressing the CAMERA switch on the AV control unit or by shifting the shift lever switch to the R (reverse) position.
- When the shift lever switch is in any position other than R (reverse) and the CAMERA switch is pressed, the screen displays front travel direction view and birds-eye view. Pressing the CAMERA switch again changes birds-eye view to front-side view
- When the shift lever switch is placed in R (reverse), the screen displays rear travel direction view and birdseye view. Pressing the CAMERA switch changes birds-eye view to front-side view
- In birds-eye view, the blind spot area is displayed in black to show the border of the camera images. In addition, red fixed lines are displayed in the 4 corners of the vehicle icon. After pressing the CAMERA switch for the first time or placing the shift lever switch in R (reverse) for the first time, the blind spot area is highlighted in yellow for 3 seconds and the red fixed lines blink five times.
- With the shift lever switch in any position other than R (reverse), the around view monitor screen display is cancelled 3 minutes after pressing the CAMERA switch. The screen returns to the AV control unit display.
- With the shift lever switch in R (reverse) position, the around view monitor screen display remains on constantly. To return to the AV control unit display, place the shift lever switch is in any position other than R (reverse).
- If camera image calibration is incomplete, the applicable camera position is indicated as an error on the birds-eye view display.

NOTE:

Calibration is necessary when replacing each camera or when replacing around view monitor control unit.

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< SYSTEM DESCRIPTION >

Around view monitor screen transition



Front View

- The front view image improves the visibility of obstacles in front of the vehicle and assists driving by displaying images from birds-eye view and front-side view.
- The front view image displays the vehicle width guiding line and vehicle distance guiding line, in addition to 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 exceeds approximately 90 degrees, only the predictive course line on the outside is displayed (opposite side of steering direction).
- The around view monitor control unit receives the steering angle signal from steering angle sensor via CAN communication, and controls the direction and distance of the predictive course line.
- ON/OFF setting of predictive course line can be performed using CONSULT.

[AROUND VIEW MONITOR SYSTEM]



Front-side View

- The front-side view image improves the visibility of obstacles in the front RH side of the vehicle and assists backing and parking.
- The front-side view image displays the vehicle distance guiding line and vehicle width guiding line.
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< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

Front-side view area and guiding line



Birds-eye View

Birds-Eye View

- The birds-eye view image improves the visibility of obstacles all around the vehicle and assists backing and parking.
- The images from the four cameras are converted into an overhead view, and the surroundings of the vehicle are displayed.
- The blind spot area is displayed on the image to specify the boundary of the four cameras.

Birds-Eye view display image



< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]



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.
- Around view monitor control unit superimposes yellow frame line on camera image signal and outputs it to AV control unit display when moving objects are detected.
- 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.
- 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.

View		Shift position		
		P or N position	D position	R position
			"MOD" icon display	
Dirdo Fue view and rear view	Birds-Eye view	Blue		Gray
Birds-Eye view and rear view	Rear view	Gray		Blue
Birds-Eye view and front view	Birds-Eye view	Blue	Gray	
	Front view	Gray	Blue	
Side view and rear view	Side view	×		×
	Rear view	Gray		Blue
	Side view	×	×	
Side view and front view	Front view	Gray	Blue	_
Rear wide view	l	Gray		Blue
Front wide view		Gray	Blue	_

×: Icon is not displayed.

-: View is not displayed in each shift position (D position and R position).

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· MOD illuminates frame of view in yellow when any of the conditions in the following table are satisfied:

Oper	View where MOD is operative	
Shift position Vehicle speed		
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 viewFront 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 tailgate is open. Operation stops for Bird's-Eye view when any door is open. 	

CAMERA IMAGE OPERATION PRINCIPLE

- If the information written to around view monitor control unit and the information from the camera do not match, 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 AV control unit via CAN communication by pressing the "CAMERA" button.
- Around view monitor control unit that receives the camera button signal supplies the power to each camera and inputs the camera image from each camera.
- When the shift lever switch 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 and "MOD" icon and outputs them to the display unit.

Fail-Safe

INFOID:000000013267142

DTC Display contents of CONSULT	Malfunction detection condition	Fail-safe condition
U0428: ST ANGLE SENSOR CAL- IBRATION	Neutral position adjustment of steering angle sensor is not complete.	 Predicted course line is not displayed. MOD (Moving Object Detection) function is stopped.
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. 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.

< 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.	
U111B: SIDE CAMERA RH IMAGE SIGNAL	No-signal status of side camera RH image signal is continued for 500 ms or more while ignition switch is ON.	Camera image is not displayed (gray screen
U111C: FRONT CAMERA IMAGE SIGNAL	No-signal status of front camera image signal is continued for 500 ms or more while ignition switch is ON.	
U111D: SIDE CAMERA LH IMAGE SIGNAL	No-signal status of side camera LH image signal is continued for 500 ms or more while ignition switch is ON.	
U1232: ST ANGLE SEN CALIB	Neutral position adjustment of steering angle sensor is performed. NG signal from steering an- gle sensor is received.	 Predicted course line is not displayed. MOD (Moving Object Detection) function is stopped.
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. 	Unmatched icon X display (red) is displayed (applicable for unmatched camera only).
U1305: CONFIG UNFINISH	The vehicle setting of around view monitor con- trol unit is incomplete.	Operation is according to the vehicle setting value as default value.
	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, A marking (Red) is displayed.
	When communication line between around view monitor control unit and each camera image line is affected by electromagnetic noises.	On applicable camera image screen, 🔀 dis- play (Blue) is displayed.

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DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT) < SYSTEM DESCRIPTION > [AROUND VIEW MONITOR SYSTEM]

DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT)

CONSULT Function

INFOID:000000013023629

CONSULT FUNCTIONS

CONSULT performs the following functions via communication with the around view monitor control unit.

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

ECU IDENTIFICATION

The part number of around view monitor control unit is displayed.

SELF DIAGNOSTIC RESULT Refer to <u>AV-313, "DTC Index"</u>.

DATA MONITOR

Monitor Item	Description
ST ANGLE SENSOR SIGNAL [On/Off]	Indicates condition of steering angle sensor signal.
REVERSE SIGNAL [On/Off]	Indicates selector lever position.
VEHICLE SPEED SIGNAL [mph/km/h]	Indicates condition of vehicle speed signal.
CAMERA SWITCH SIGNAL [On/Off]	Indicates condition of camera switch signal.
CAMERA OFF SIGNAL [On/Off]	Indicates condition of camera OFF signal.
ST ANGLE SENSOR TYPE [Absolute]	Indicates steering angle sensor type.
STEERING GEAR RATIO TYPE [Type 0]	Indicates steering gear ratio type.
STEERING POSITION [LHD/RHD]	Indicates LH or RH drive type.
REAR CAMERA IMAGE SIGNAL [OK/ NG]	Indicates condition of camera image signal.
F-CAMERA IMAGE SIGNAL [OK/NG]	Indicates condition of camera image signal.
DR-SIDE CAMERA IMAGE SIG [OK/ NG]	Indicates condition of camera image signal.
PA-SIDE CAMERA IMAGE SIG [OK/ NG]	Indicates condition of camera image signal.
ILL [ON/OFF]	Indicates condition of illumination signal.
TURN SIGNAL [ON/OFF]	Indicates condition of turn signal.

WORK SUPPORT

Support Item	Setting	Description
CALIBRATING CAMERA IMAGE (FRONT CAMERA)	STATUS	Performs calibration of front camera.
	AXIS X	
	AXIS Y	
	ROTATE	

DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

Support Item	Setting	Description
CALIBRATING CAMERA IMAGE (PASS-SIDE CAMERA)	STATUS	
	AXIS X	
	AXIS Y	- renoms calibration of passenger side camera.
	ROTATE	
	STATUS	
CALIBRATING CAMERA IMAGE	AXIS X	Performs calibration of driver side camera
(DR-SIDE CAMERA)	AXIS Y	
	ROTATE	
	STATUS	
CALIBRATING CAMERA IMAGE	AXIS X	Performs calibration of rear view camera
(REAR CAMERA)	AXIS Y	
	ROTATE	
	STATUS	
	SELECT	
FINE TUNING OF BIRDS-EYE VIEW	AXIS X	Confirmation and adjustment of difference between each camera can be per- formed.
	AXIS Y	
	ROTATE]
	STATUS	
REAR WIDE-VIEW FIXED GUIDE	AXIS X	
LINE CORRECTION	AXIS Y	Correct rear wide-view fixed guide line positions.
	PATTERN	
	ON	ON/OFF setting of non-viewable area can be performed.
NON-VIEWABLE AREA REMINDER	OFF	
PREDICTIVE COURSE LINE	ON	ON/OFF setting of predictive course line display can be performed
DISPLAY	OFF	- ON/OFF setting of predictive course line display can be performed.
INITIALIZE CAMERA IMAGE CALIBRATION	_	Factory image calibration restoration can be performed.
STEERING ANGLE SENSOR ADJUSTMENT	_	Steering angle sensor neutral position adjustment can be performed.
	STATUS	
	AXIS X	
(FRONT CAMERA)	AXIS Y	Performs calibration of front camera.
	ROTATE	
	STATUS	
CALIBRATING CAMERA IMAGE	AXIS X	
(PASS-SIDE CAMERA)	AXIS Y	Performs calibration of passenger side camera.
	ROTATE	
	STATUS	
CALIBRATING CAMERA IMAGE	AXIS X	
(DR-SIDE CAMERA)	AXIS Y	 Performs calibration of driver side camera.
	ROTATE	
CALIBRATING CAMERA IMAGE (REAR CAMERA)	STATUS	
	AXIS X	-
	AXIS Y	Performs calibration of rear view camera.
	ROTATE	-

DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[AROUND VIEW MONITOR SYSTEM]

Support Item	Setting	Description			
	STATUS				
	SELECT				
FINE TUNING OF BIRDS-EYE VIEW	AXIS X	Confirmation and adjustment of difference between each camera can be per- formed			
	AXIS Y				
	ROTATE				
CAUSE OF ENTRY CANCEL	_	Cause item can be cancelled.			
	ON	ON/OFE setting of moving object detection (MOD) can be performed			
	OFF				

CONFIGURATION

Refer to AV-331, "Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-48, "CAN Diagnostic Support Monitor".

[AROUND VIEW MONITOR SYSTEM] ECU DIAGNOSIS INFORMATION

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INFOID:000000013023630

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	
	CAMERA switch ON.	Off	
CAMERA OFF SIGNAL	CAMERA switch OFF.	On	
	CAMERA switch OFF.	Off	
CAMERA SWITCH SIGNAL	CAMERA switch ON.	On	
	Side camera LH inoperative.	NG	
DR-SIDE CAMERA IMAGE SIG	Side camera LH operative.	ОК	
	Front camera inoperative.	NG	
	Front camera operative.	ОК	
	Illumination OFF.	Off	
	Illumination ON.	On	
	Side camera RH inoperative.	NG	
FA-SIDE CAMERA IMAGE SIG	Side camera RH operative.	ОК	
	Rear view camera LH inoperative.	NG	
REAR CAMERA IMAGE SIGNAL	Rear view camera LH operative.	ОК	
	When selector lever is in any position other than R (reverse).	Off	
REVERSE SIGNAL	When selector lever in R (reverse).	On	
	Around view monitor control unit is not receiving steering angle sensor signal.	Off	
STANGLE SENSOR SIGNAL	Around view monitor control unit is receiving steering angle sensor signal.	On	
ST ANGLE SENSOR TYPE	Steering angle sensor type.	Absolute	
STEERING GEAR RATIO TYPE	Steering gear ratio type.	Туре 0	
	Left hand drive vehicle.	LHD	
	Right hand drive vehicle.	RHD	
	Turn signal OFF.	Off	
I URIN ƏIGINAL	Turn signal ON.	On	
VEHICLE SPEED SIGNAL	While driving, equivalent to speedometer reading	mph, km/h	

TERMINAL LAYOUT



PHYSICAL VALUES

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< ECU DIAGNOSIS INFORMATION >

[AROUND VIEW MONITOR SYSTEM]

Terr (Wire)	ninal color)	Description		Condition	Reference value
+	_	Signal name	Input/ Output	Condition	(Approx.)
3 (Shield)	_	Video output ground		_	_
4 (G)	Ground	Video output signal	Output	Ignition switch ON CAMERA switch is ON or shift position is R position 	(V) 1 0 -1 40 μ s JSNIA0834GB
5 (L/G)	_	Front camera ground	—	Ignition switch ON	0 V
6 (L)	5 (L/G)	Front camera power supply	Output	Ignition switch ON	6.0 V
7 (Shield)	_	Front camera video ground		Ignition switch ON	0 V
8 (W/G)	7 (Shield)	Front camera video signal	Input	Ignition switch ON CAMERA switch is ON or shift position is R position 	(V) 1 0 -1 40 μ s JSNIA0834GB
9 (O/L)	_	Door mirror RH cam- era ground		Ignition switch ON	0 V
10 (O)	9 (O/L)	Door mirror RH cam- era power supply	Output	Ignition switch ON	6.0 V
11 (Shield)	_	Door mirror RH cam- era video ground	_	Ignition switch ON	0 V
12 (L/G)	11 (Shield)	Door mirror RH cam- era video signal	Input	Ignition switch ON CAMERA switch is ON or shift position is R position 	(V) 1 0 -1 40 μ s JSNIA0834GB
13 (B)		Door mirror LH cam- era ground		Ignition switch ON	0 V
14 (W)	13 (B)	Door mirror LH cam- era power supply	Output	Ignition switch ON	6.0 V
15 (Shield)	_	Door mirror LH cam- era video ground	_	Ignition switch ON	0 V
16 (R)	15 (Shield)	Door mirror LH cam- era video signal	Input	Ignition switch ON CAMERA switch is ON or shift position is R position 	(V) 1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1

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< ECU DIAGNOSIS INFORMATION >

[AROUND VIEW MONITOR SYSTEM]

Terr (Wire)	color)	Description		Condition	Reference value	А
+	-	Signal name	Input/ Output	Condition	(Approx.)	
17 (L/W)	_	Rear view camera ground	_	Ignition switch ON	0 V	В
18 (L)	17 (L/W)	Rear view camera power supply	Output	Ignition switch ON	6.0 V	С
19 (R/W)		Rear view camera vid- eo ground	_	Ignition switch ON	0 V	
20 (R)	19 (R/W)	Rear view camera vid- eo signal	Input	Ignition switch ON • CAMERA switch is ON or shift position is R position	(V) 1 0 -1 JSNIA0834GB	D E F
24 (R)		CAN low	Input/ Output	_	_	
26 (L)		CAN high	Input/ Output	_	_	G
32 (G/W)	39 (B)	Reverse signal	Input	Ignition switch ON R position 	Battery voltage	Н
39 (B)	_	Ground	_	Ignition switch ON	0 V	
40 (G/R)	39 (B)	Ignition signal	Input	Ignition switch ON or START	Battery voltage	I

Fail-Safe

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DTC Display contents of CONSULT	Malfunction detection condition	Fail-safe condition	K
U0428: ST ANGLE SENSOR CAL- IBRATION	Neutral position adjustment of steering angle sensor is not complete.	 Predicted course line is not displayed. MOD (Moving Object Detection) function is stopped. 	L
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. 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. 	M AV O

< ECU DIAGNOSIS INFORMATION >

[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.	
U111B: SIDE CAMERA RH IMAGE SIGNAL	No-signal status of side camera RH image signal is continued for 500 ms or more while ignition switch is ON.	Camera image is not displayed (gray screen
U111C: FRONT CAMERA IMAGE SIGNAL	No-signal status of front camera image signal is continued for 500 ms or more while ignition switch is ON.	display).
U111D: SIDE CAMERA LH IMAGE SIGNAL	No-signal status of side camera LH image signal is continued for 500 ms or more while ignition switch is ON.	-
U1232: ST ANGLE SEN CALIB	Neutral position adjustment of steering angle sensor is performed. NG signal from steering an- gle sensor is received.	 Predicted course line is not displayed. MOD (Moving Object Detection) function is stopped.
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. 	Unmatched icon X display (red) is displayed (applicable for unmatched camera only).
U1305: CONFIG UNFINISH	The vehicle setting of around view monitor con- trol unit is incomplete.	Operation is according to the vehicle setting value as default value.
	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, <u>A</u> marking (Red) is displayed.
	When communication line between around view monitor control unit and each camera image line is affected by electromagnetic noises	On applicable camera image screen, X dis- play (Blue) is displayed.

DTC Inspection Priority Chart

INFOID:000000013023632

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 U1304: CAMERA IMAGE CALIB

AROUND VIEW MONITOR CONTROL UNIT [AROUND VIEW MONITOR SYSTEM]

< ECU DIAGNOSIS INFORMATION >

DTC Index

DTC	CONSULT display	Refer to
U0428	ST ANGLE SENSOR CALIBRATION	AV-338. "DTC Description"
U1000	CAN COMM CIRCUIT	AV-340, "DTC Description"
U1010	CONTROL UNIT (CAN)	AV-341, "DTC Description"
U111A	REAR CAMERA IMAGE SIGNAL	AV-342, "DTC Description"
U111B	SIDE CAMERA RH IMAGE SIGNAL	AV-344, "DTC Description"
U111C	FRONT CAMERA IMAGE SIGNAL	AV-346, "DTC Description"
U111D	SIDE CAMERA LH IMAGE SIGNAL	AV-348, "DTC Description"
U1232	ST ANGLE SEN CALIB	AV-350, "DTC Description"
U1302	CAMERA POWER VOLT	AV-351, "DTC Description"
U1304	CAMERA IMAGE CALIB	AV-355, "DTC Description"
U1305	CONFIG UNFINISH	AV-356, "DTC Description"

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WIRING DIAGRAM AROUND VIEW MONITOR SYSTEM

Wiring Diagram

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AROUND VIEW MONITOR SYSTEM [AROUND VIEW MONITOR SYSTEM]



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B41	WIRE TO WIRE	NS12MW-CS	WHITE		
Connector No.	Connector Name	Connector Type	Connector Color	LT LT	



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L/B G/W L(G/Y SB/BR BR/LG BR BR

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Signal Name	TO ENGINE ROOM HARNESS												
Color of Wire	¥	>	Ч	ГG	R/G	SB	٩	_	SHIELD	D/M	-	BR	
Terminal No.	-	2	3	4	ŝ	9	7	8	6	10	ŧ	12	

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SHIELD

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 55.1	261	57J	58J	59J	60J	61J	62J	63.1	64J	65J	66J	67J	68.1	69.1	701	L17	72J	72J	73J	74.J	75J	76.J	L77	78.1	19J	80.1	81J	82J	83J	84J	85J	86.1	87.1	88.1	89.1	90N	91J	92J	93.1	94J	95J	96.1	F26	98,	

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AROUND VIEW MONITOR SYSTEM



AROUND VIEW MONITOR SYSTEM CONNECTORS

< WIRING DIAGRAM >

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AROUND VIEW MONITOR SYSTEM

[AROUND VIEW MONITOR SYSTEM]

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		0454	18	a	HEATED MIR
Connector	Nomo		19	B	GND
			20	SHIELD	VIDEO -
Connector	lype	KH04FB	21	R/G	BAT SAVER
Connector	Color	BLACK	22	-	ROOM LAMP
f			23	M	LED LH
d HJ HN			24	æ	GND
H.S.		R			
			Connector	No.	D18
		1 2 3 4	Connector	Name	WIRE TO WIRE
			Connector	Type	TH40FW-NH
			Connector	Color	WHITE
Terminal No.	Color of Wire	Signal Name	Ð		
-	L	REAR VIEW CAMERA POWER	S I		
2	Ň	GROUND	2	20 10 18 17 15	
e	œ	REAR VIEW CAMERA VIDEO +		40 39 38 37 3	5 35 34 33 32 31 30 29 28
4	RW	REAR VIEW CAMERA VIDEO -			
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Connector	No.		Terminal	Color of	Signal Na
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Connector	Type	TH24MW-NH	ŀ	bЛ	TO MAIN HARNE AROUND VIEW N
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			9	SB	TO MAIN HAF
			7	>	TO MAIN HAF
Terminal	Color of		80	GR	TO MAIN HAF
No.	Wire	signal Name	6	-	TO MAIN HAF
-	P	SWITCH MTR UP	10	M	TO MAIN HAF
2	-	SWITCH MOTOR LT-(WITH	F	•	TO MAIN HAF
		MEMORY MIRRORS)	12	R/G	TO MAIN HAF
2	>	-(WITHOUT MEMORY MIRRORS)	13	۲	TO MAIN HAF
e	BG	MOTOR COMMON	14	ГG	TO MAIN HAF
4	ı	-	15	L	TO MAIN HAF
ŝ	T	-	16	^	TO MAIN HAF
9	BM	HEATED MIRROR +	17	ГG	TO MAIN HAF
7	>	VCC	18	BR	TO MAIN HAF
8	ш	VIDEO +	19	LG/B	TO MAIN HAF
6	G/B	FRONT TURN LH	20	٨X	TO MAIN HAF
10	۵	GND	21	BG	TO MAIN HARNE

	HEATED MIRROR -	2	5	۲	TO MAIN HARNESS	_
	GND	2	9	Ч	TO MAIN HARNESS	
9	VIDEO -	2	7	٢	TO MAIN HARNESS	
0	BAT SAVER OUT	2	8	-	TO MAIN HARNESS	
	ROOM LAMP CONT	2	6	^	TO MAIN HARNESS	
	LED LH	°	0	æ	TO MAIN HARNESS	
	GND	۳	F	SHIELD	TO MAIN HARNESS	
		°	5	æ	TO MAIN HARNESS	
	018	~ _	3	BR	TO MAIN HARNESS	
		^m	4	•	TO MAIN HARNESS	
		^m	5	×	TO MAIN HARNESS	
	TH40FW-NH	۳ ا	9	1	TO MAIN HARNESS	
	WHITE	۳	7	1	TO MAIN HARNESS	
		e	8	ГG	TO MAIN HARNESS	
		e	6	SB	TO MAIN HARNESS	
		4	0	-	TO MAIN HARNESS	
17	16 15 14 13 12 11 10 9 8 7 6 5 4 3	-				
37	36 35 34 33 32 31 30 29 28 27 26 25 24 23 2	^{2 21} Conn	ector N	- O	D102	

40 L	
onnector No.	D102
onnector Name	WIRE TO WIRE
onnector Type	TH32FW-NH
onnector Color	WHITE
E C	
H.S.	
16 15 14	13 12 11 10 9 8 7 6 5 4 3 2 1
32 31 30	29 28 27 26 25 24 23 22 21 20 19 18 17

TO MAIN HARNESS -(WITHOUT MEMORY MIRRORS) TO MAIN HARNESS -(WITH AROUND VIEW MONITOR)

Signal Name

TO MAIN HARNESS		CI #I CI 01		- -	2 4	•	- 8	°	+
		32 31 30 29	72 87	2	2 8	24	2	2	. 4
TO MAIN HARNESS									
TO MAIN HARNESS									
TO MAIN HARNESS									
TO MAIN HARNESS	Terminal	Color of			ŝ	ane	4	lan	۳
TO MAIN HARNESS	NO	Wire							
TO MAIN HARNESS	-	BR		-1	2	¥.	Ξl	ξ.	шI
TO MAIN HARNESS	2	>		71	ē	¥.	Ξl	R	ш
TO MAIN HARNESS	3	BR		-1	2	¥.	Ξl	Ϋ́	шĭ
TO MAIN HARNESS	4	٦		-1	2	AN	Ξ	Ϋ́	шĭ
TO MAIN HARNESS	5	LG/W		-1	2	AN AN	Ξl	Ĕ.	шĭ
TO MAIN HARNESS	9	R/W		-	0	AAIN	H	ARN	ω i
TO MAIN HARNESS	2	R/G		-1	2	AN AN	Ξl	ξ.	ωı
TO MAIN HARNESS	8	в			2	AN	Ξ	R	ωı
TO MAIN HARNESS	6	W		-	2	¥.	Ξ	R	ωı
TO MAIN HARNESS	10	Υ			0	AAIN	H H	ARN	ш
TO MAIN HARNESS	F	ΓC		-	2	¥.	Ξ	R	шí
TO MAIN HARNESS	12	L		-	0	AAIN	H/	ARN	Ω I
TO MAIN HARNESS	13	۲N			2	AAIN	Ξ	R	ш
FO MAIN HARNESS - WITH	14	W/L		<u>-</u>	õ	AAIN	Ŧ	NR/	Ш.
MEMORY MIRRORS)	15	V/R		Γ.	2	AIN	Ξ	R	ΞÛ.
MAIN HARNESS -(WITHOUT	16	۲W			2	AAIN	Ŧ	R	Ш.
MEMORY MIRRORS)	17	SB		17	2	AN	E	R	Шŭ
TO MAIN HARNESS	18	7		15	2	AIN	Ξ	1 Å	lш
FO MAIN HARNESS -(WITH MEMORY MIRRORS)	19	σ		171	2	AIA	E	R	ШШ
MAIN HARNESS -(WITHOUT MEMORY MIRRORRS)	50	W/X	41 D	₹8I	ATA	A A A	₩ E	S A	≤.∞∣
TO MAIN HARNESS									

THOUT TIONER)

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BG

3 23 33

GND EC FEED EC RETURN MEMORY GND MEMORY FEED HOR SENSOR VER SENSOR

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4 Kl LG/B 명 ß >

2 5 12 13 44 15 16 17

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TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)	TO MAIN HARNESS											
GR/R	1	1	æ	æ	SHIELD	ГG	≻	BB	LG/B	ī	1	
20	21	22	23	24	25	26	27	28	29	30	31	32

Ê												
TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONE	TO MAIN HARNESS											
GR/R		1	œ	æ	SHIELD	ГG	۲	BB	LG/B	1		

	1			1			r –						T	-	-											-	-	-	-	-	T	I	—
E19	WIRE TO WIRE	NS04MW-CS	WHITE		1 2 3 4	Signal Name	TO ENGINE CONTROL HARNESS		E35			NS12FW-CS	WHITE				5 4 3 2 1	12 11 10 9 8 7 6				Signal Name	TO BODY HABNESS	TO BODY HABNESS	TO BODY HABNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HARNESS	TO BODY HADNESS			
No.	Name	Type I	Color			Color of Wire	-	M	٩	SB		No.	omely		Iype	Color								Color of	Wire	>	- >	• -	- ×	R/G	SB	٩	-
Connector	Connector	Connector	Connector	E H	5	Terminal No.	-	2	8	4		Connector	Connector	Collifector	Connector	Connector			HS.H					Terminal	No.	-	- 0	1 0	0 4	. ₁₀	9	7	
							1											1		_		1				_			_	_			-
5	/IRE TO WIRE	H24MW-NH	ИНТЕ		3 4 5 6 7 8 9 10 11 1 15 16 17 18 19 20 21 22 23 2	Signal Name	TO ENGINE CONTROL HARNESS																										
	ame	pe T	olor V		1 2 13 14	Color of Wire	L/B	ВВ	>	Г/О	M	B/R	Y/R	BR	W/L	ΓΛ	SB	_	W/R	>	в	m	в	в	B/R	GR	V/R	в	в	٩			
Connector No	Connector Na	Connector Ty	Connector Co	E E	5	Terminal O No.	-	2	8	4	5	9	7	8	6	10	F	12	13	14	15	16	17	18	19	20	21	22	23	24			
					নাৰ																									_			
107	JOR MIRROR RH	124MW-NH	HITE		3 4 5 6 7 8 9 10 11 1 5 16 17 18 19 20 21 22 23 2	Signal Name	SWITCH MTR UP	SWITCH MTR LT	MTR COMMON	ı	I	HEATED MIRROR +	VCC	VIDEO +	FR TURN RH	GND	EC FEED	EC RETURN	MEMORY GND	MEMORY FEED	HOR SENSOR	VER SENSOR	1	HEATED MIRROR -	GND	VIDEO -	BAT SAVER OUT	ROOM LAMP CONT	LED RH	GND			
о. Д	ame D(/pe TF	olor W		1 2 13 14 1	Color of Wire	BB	σ	ß	1	1	B/W	в	н	GY	в	LG/B	٨٨	_	>	7	ВВ	1	в	N	SHIELD	R/G	L	æ	8			
Connector No	Connector Ne	Connector Ty	Connector Co	S H	5	Terminal C No.	-	0	e	4	5	9	7	8	6	10	1	12	13	14	15	16	17	18	19	20	21	22	23	24			

AROUND VIEW MONITOR SYSTEM CONNECTORS

Connector No. Connector Name Connector Type Connector Color DOOR MIRROR RH TH24MW-NH

WIRE TO WIRE	VS12FW-CS	VHITE				5 4 3 2 1	9 / 9 8 01 11 71				Signal Name	
Name	Type	Color								Colored	Mino of	DIIA
Connector	Connector .	Connector	RA		H.S.H					Tominol	No	
												Г
2	ss s	8 8	ss	SS	ss	ss	SS	ss	SS	SS	ss	

	_											
Signal Name	TO BODY HARNESS											
Color of Wire	٨	٨	-	M	R/G	SB	٩	_	SHIELD	8	н	BR
Terminal No.	F	2	3	4	5	9	7	8	6	10	ш	12

< WIRING DIAGRAM >

AROUND VIEW MONITOR SYSTEM [AROUND VIEW MONITOR SYSTEM]

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	:		22C	SHIELD	TO CHASSIS HARNESS
Connecto	r No.	E41	23C	G/B	TO CHASSIS HARNESS
Connecto	r Name	WIRE TO WIRE	24C	GΛ	TO CHASSIS HARNESS
Connecto	r Type	RK26MGY-RS20-X6	25C	W	TO CHASSIS HARNESS
Connecto	r Color	GRAY	26C	В	TO CHASSIS HARNESS
f	U		27C	LG	TO CHASSIS HARNESS
	ţ		28C	G/W	TO CHASSIS HARNESS
H.S.	2 8	7C 8C 9C 10C 11C	29C	G/R	TO CHASSIS HARNESS - (WITH BULB CHECK)
	12C	3C[14C[15C] 16C [17C [18C [19C [20C[21C]	29C	R/G	TO CHASSIS HARNESS - (WITHOUT BULB CHECK)
			30C	R/L	TO CHASSIS HARNESS
	22C	23C 24C 25C 26C 27C 28C 29C 30C 31C	31C	8	TO CHASSIS HARNESS
	200	30 310 350 360 370 380 300 400 410	32C	ж	TO CHASSIS HARNESS
	220	200 240 200 200 200 200 200 200 400 410	33C	LW	TO CHASSIS HARNESS
	42C	43C 44C 45C 46C 47C	34C	L	TO CHASSIS HARNESS
	48C	49C 50C 51C 52C	35C	WA	TO CHASSIS HARNESS
			360	- ~	TO CHASSIS HARNESS TO CHASSIS HARNESS
Terminal	Color o	f Signal Name	380	BR	TO CHASSIS HARNESS
No.	Wire	0	39C	ж	TO CHASSIS HARNESS
5	š	TO CHASSIS HARNESS	40C	٩	TO CHASSIS HARNESS
20	WL	TO CHASSIS HARNESS	41C	>	TO CHASSIS HARNESS
õ	•	TO CHASSIS HARNESS	42C	G/B	TO CHASSIS HARNESS
40	BRW	TO CHASSIS HARNESS	43C	۲/B	TO CHASSIS HARNESS
			240	c (
	r C		1 5 5 5	5 8	TO CHASSIS HARNESS
2	1/5	LU CHASSIS HAHNESS - (WITH CUMMINS 5.0L)	460	Ha a	TO CHASSIS HARNESS TO CHASSIS HARNESS
7C	œ	TO CHASSIS HARNESS - (WITH	48C	Y/R	TO CHASSIS HARNESS
8	8	TO CHASSIS HARNESS - (WITH	49C	RM	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
80	0/B	TO CHASSIS HARNESS - (WITH	49C	>	TO CHASSIS HARNESS - (WITH VK56VD)
90	ML	TO CHASSIS HARNESS - (WITH CUMMINS 5.01)	50C	в	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
90	BS	TO CHASSIS HARNESS - (WITH VK56VD)	50C	В/Y	TO CHASSIS HARNESS - (WITH VK56VD)
100	GR/R	TO CHASSIS HARNESS - (WITH CUMMINS 5.01)	51C	v	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
100	GR	TO CHASSIS HARNESS - (WITH VK56VD)	51C	В	TO CHASSIS HARNESS - (WITH VK56VD)
11C	8	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)	52C	В	TO CHASSIS HARNESS - (WITHOUT FFV)
11C	RM	TO CHASSIS HARNESS - (WITH	52C	-	TO CHASSIS HARNESS - (WITH FFV)
12C	>	TO CHASSIS HARNESS	52C	ΜΛ	TO CHASSIS HARNESS
13C	8	TO CHASSIS HARNESS			
14C	BG	TO CHASSIS HARNESS			
15C	>	TO CHASSIS HARNESS			
16C	8	TO CHASSIS HARNESS			
11C	>	TO CHASSIS HARNESS			
18C	BG	TO CHASSIS HARNESS			
26	-	TO CHASSIS HARNESS			
500	g (TO CHASSIS HARNESS			
ว ₁₇	a	I O CHASSIS HARNESS			

	22C 23C	SHIELI G/B
O WIRE	24C	Ş
GY-RS20-X6	25C	≥
	26C	8
	27C	ГG
	28C	G/W
2C 3C 4C 5C 9C 10C 11C	29C	G/R
C 16C 17C 18C 19C 20C 21C	29C	R/G
	30C	RL
C 26C 27C 28C 29C 30C 31C	31C	8
0 200 270 200 200 400 400	32C	н
0 300 310 380 390 400 410	33C	N
45C 46C 47C	34C	-
49C 50C 51C 52C	350	8 -
	37C	· >
Cianal Mama	38C	BR
olgrial Name	39C	в
O CHASSIS HARNESS	40C	٩
O CHASSIS HARNESS	41C	۸
O CHASSIS HARNESS	42C	G/B
O CHASSIS HARNESS	43C	Y/B
O CHASSIS HARNESS	44C	æ
O CHASSIS HARNESS	45C	ŋ
HASSIS HARNESS - (WITH	46C	ВВ
	47C	B
HASSIS HAHNESS - (WITH VK56VD)	48C	Y/R
HASSIS HARNESS - (WITH CUMMINS 5.0L)	49C	RY
HASSIS HARNESS - (WITH VK56VD)	49C	>
HASSIS HARNESS - (WITH CUMMINS 5.0L)	50C	œ
HASSIS HARNESS - (WITH VK56VD)	50C	B∨
HASSIS HARNESS - (WITH CUMMINS 5.0L)	51C	>
HASSIS HARNESS - (WITH VK56VD)	51C	œ
HASSIS HARNESS - (WITH CUMMINS 5.0L)	52C	в
HASSIS HARNESS - (WITH VK56VD)	52C	-
O CHASSIS HARNESS	52C	٨٧
O CHASSIS HARNESS		
O CHASSIC HADNESS		

CHASSIS HARNESS - (WITH FFV) TO CHASSIS HARNESS

AROUND VIEW MONITOR SYSTEM CONNECTORS

Connector N	Q	E52	21F	К	TO ENGINE CONTROL NO. 2 HARNESS	52F	ВВ	TO ENGINE CONTE HARNESS
Connector h	lame	WIRE TO WIRE	22F	۲W	TO ENGINE CONTROL NO. 2			_
Connector 1	lype	RK26FGY-RS20-X6	23F	R/L	TO ENGINE CONTROL NO. 2	Connector	No.	E119
			24F	W/L	TO ENGINE CONTROL NO. 2 HARNESS	Connector	Name	POWER DISTRIBU
SH	5	4F 3F 2F 1F	25F	W/R	TO ENGINE CONTROL NO. 2 HARNESS	Connector	Type	NS16FW-CS
	ŧ į	10F 9F 8F 7F 6F	26F	B/R	TO ENGINE CONTROL NO. 2 HARNESS	Connector	Color	WHITE
	112	20F 19F 18F 1/F 16F 15F 14F 13F 12F	27F	>	TO ENGINE CONTROL NO. 2 HARNESS			
	31F	30F 29F 28F 27F 26F 25F 24F 23F 22F	28F	M/R	TO ENGINE CONTROL NO. 2 HARNESS	H.S.		9 8 7 6 5
	41F	40F 39F 38F 37F 36F 36F 34F 33F 32F	29F	2	TO ENGINE CONTROL NO. 2 HARNESS			18 17 16 15 14 13 12
	47F 52F	46F 45F 44F 43F 42F 51F 50F 49F 48F	30F	m	TO ENGINE CONTROL NO. 2 HARNESS			
	J		31F	8	TO ENGINE CONTROL NO. 2 HARNESS	Terminal	Color o	f Signal Nar
Terminal	Color c	of Signal Name	32F	٨٧	TO ENGINE CONTROL NO. 2 HARNESS	3		1
1	×	TO ENGINE CONTROL NO. 2	33F	GR	TO ENGINE CONTROL NO. 2 HADNESS	4	B/R	NP SW
Je	•	HARNESS TO ENCINE CONTROL NO 2	34F	гЛ	TO ENGINE CONTROL NO. 2	2 Q	<u>ه</u>	H/LAMP HI
47	n	I U ENGINE CUN HOL NU. 2 HARNESS	Jet	W	HARNESS TO ENDINE CONTROL NO 9	~		H/LAMP LO
ЗЕ	BB	TO ENGINE CONTROL NO. 2 HARNESS	100	MA	I O EINGINE CONTROL NO. 2 HARNESS	ø	Ϋ́	H/LAMP LO I
4F	W/R	TO ENGINE CONTROL NO. 2 HARNESS	36F	5	TO ENGINE CONTROL NO. 2 HARNESS	9	°,	FR FOG/L L
5F	B/B	TO ENGINE CONTROL NO. 2	37F	L	TO ENGINE CONTROL NO. 2 HARNESS	E	٩	ETC VB - (WITH CUM
6F	0	TO ENGINE CONTROL NO. 2	38F	RV	TO ENGINE CONTROL NO. 2 HARNESS	11	o MN	ETC VB - (WITH V FR FOG/L R
ļ	1000	HARNESS	39F	RV	TO ENGINE CONTROL NO. 2	13	ΥR	A/T ECU IG
7F	GRV	TO ENGINE CONTROL NO. 2 HARNESS			HARNESS	14	5	REVERSE LAMI
8F	>	TO ENGINE CONTROL NO. 2 HARNESS	40F	B/B	TO ENGINE CONTROL NO. 2 HARNESS	15 16	В с	ABS ECU IG
9F	BB	TO ENGINE CONTROL NO. 2 HARNESS	41F	>	TO ENGINE CONTROL NO. 2 HARNESS	<u>e</u>	5	EICHEY CONI - (WIII
10F	Y/B	TO ENGINE CONTROL NO. 2 HARNESS	42F	>	TO ENGINE CONTROL NO. 2 HARNESS	16	N/H	ETC RLY CONT - (WIT IGN COIL - (WITH CUN
11F	-	TO ENGINE CONTROL NO. 2	43F	B/P	TO ENGINE CONTROL NO. 2 HARNESS	17	>	IGN COIL - (WITH
12F	æ	TO ENGINE CONTROL NO. 2 HARNESS	44F	Y/B	TO ENGINE CONTROL NO. 2 HARNESS	2		-
13F	>	TO ENGINE CONTROL NO. 2 HARNESS	45F	Ś	TO ENGINE CONTROL NO. 2 HARNESS			
14F	>	TO ENGINE CONTROL NO. 2 HARNESS	46F	0	TO ENGINE CONTROL NO. 2 HARNESS			
15F	SB	TO ENGINE CONTROL NO. 2 HARNESS	47F	W/R	TO ENGINE CONTROL NO. 2 HARNESS			
16F	٩	TO ENGINE CONTROL NO. 2 HARNESS	48F	L	TO ENGINE CONTROL NO. 2 HARNESS			
17F	Y/R	TO ENGINE CONTROL NO. 2 HARNESS	49F	В	TO ENGINE CONTROL NO. 2 HARNESS			
18F	æ	TO ENGINE CONTROL NO. 2 HARNESS	50F	SHIELD	TO ENGINE CONTROL NO. 2 HARNESS			
19F	>	TO ENGINE CONTROL NO. 2 HARNESS	51F	-	TO ENGINE CONTROL NO. 2 HARNESS			
20F	BB	TO ENGINE CONTROL NO. 2 HARNESS						

AROUND VIEW MONITOR SYSTEM CONNECTORS

IGENT TION ROOM)

Signal Name	1	WP SW	H/LAMP HI RH	H/LAMP HI LH	H/LAMP LO LH	HI TO HI	FR FOG/L LH	1	ETC VB - (WITH CUMMINS 5.0L)	ETC VB - (WITH VK56VD)	FR FOG/L RH	A/T ECU IGN	REVERSE LAMP IGN	ABS ECU IGN	ETC RLY CONT - (WITH CUMMINS 5.0L)	ETC RLY CONT - (WITH VK56VD)	IGN COIL - (WITH CUMMINS 5.0L)	IGN COIL - (WITH VK56VD)	
Color of Wire	1	B/R	ΓW	σ		RV	G/W		٩	0	W/R	Y/R	ŋ	GR	ŋ	V/R	ΓW	W	
erminal No.	3	4	5	9	7	8	6	10	1	11	12	13	14	15	16	16	17	17	

30L NO. 2

AROUND VIEW MONITOR SYSTEM [AROUND VIEW MONITOR SYSTEM]

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	22G	GN	TO MAIN HARNESS - (WITH		00		TO MAIN HARNESS			
			VK56VD)		10	RW	TO MAIN HARNESS	Connector N	o.	F14
	23G	Y/R	TO MAIN HARNESS	<u> </u>	2G	N	TO MAIN HARNESS	Connector N	lame	WIRE TO WIRE
	24G	G/B	TO MAIN HARNESS	[3G	SHIELD	TO MAIN HARNESS	Connector T	ype	TH24FW-NH
	25G	RW	TO MAIN HARNESS		4G	M	TO MAIN HARNESS	Connector C	olor	WHITE
	26G	œ (TO MAIN HARNESS		5G	œ	TO MAIN HARNESS	f		
	27G	9	TO MAIN HARNESS		6G	R/G	TO MAIN HARNESS	dHHH		
	582	G/B	IO MAIN HARNESS		7G	g	TO MAIN HARNESS	SH		
	29G	G/B	TO MAIN HARNESS		'8G	M	TO MAIN HARNESS	5	12 11	10 0 8 7 6 5 4 3 2 1
	30G	BRV	TO MAIN HARNESS		96	,	TO MAIN HARNESS		24 23	22 21 20 19 18 17 16 15 14 13
	31G	۵.	TO MAIN HARNESS - (WITH CLIMMINS 5 01)	Ĺ	00	æ	TO MAIN HARNESS			
G 11G	316	~	TO MAIN HARNESS - (WITH	Ĺ	81G	_	TO MAIN HARNESS			
0	5	:	VK56VD)	Ĺ	82G	œ	TO MAIN HARNESS	 		
G31G	32G	۹.	TO MAIN HARNESS	Ĺ	3G	_	TO MAIN HARNESS	Terminal	Color of	Signal Name
0	33G	٨L	TO MAIN HARNESS	Ĺ	84G	_	TO MAIN HARNESS	N0.	MIG	
G51G	34G	GR	TO MAIN HARNESS	Ĺ	5G	W/B	TO MAIN HARNESS	-	۳,	TO ENGINE ROOM HARNESS
	35G	G/R	TO MAIN HARNESS		66	B/R	TO MAIN HARNESS	2	В	TO ENGINE ROOM HARNESS
0240	36G	BS	TO MAIN HARNESS		87G	W/B	TO MAIN HARNESS	e	>	TO ENGINE ROOM HARNESS
2 10	376	Ma	TO MAIN HARNESS		100	2	TO MAIN HARNESS	4	L/O	TO ENGINE ROOM HARNESS
	080		TO MAIN LADNIESS					S	M	TO ENGINE ROOM HARNESS
	500				560	, ,		9	B/B	TO ENGINE ROOM HARNESS
	5965	На	I U MAIN HAHNESS		500	5	I U MAIN HARNESS	7	Y/R	TO ENGINE ROOM HARNESS
	40G	'	TO MAIN HARNESS	-	16	g	TO MAIN HARNESS	. α	8	TO ENGINE BOOM HABNESS
	41G	R/G	TO MAIN HARNESS		12G	V/M	TO MAIN HARNESS			
	42G	0	TO MAIN HARNESS	Ĺ	3G	BB	TO MAIN HARNESS		M/L	I U ENGINE ROUM HARNESS
	43G	8	TO MAIN HARNESS - (WITH		94G	σ	TO MAIN HARNESS	01	5	IO ENGINE HOOM HAHNESS
			CUMMINS 5.0L)		5G	g	TO MAIN HARNESS	=	BB	TO ENGINE ROOM HARNESS
	43G	U	TO MAIN HARNESS - (WITH		96G	×	TO MAIN HARNESS	12	-	TO ENGINE ROOM HARNESS
					176	~	TO MAIN HARNESS	13	W/R	TO ENGINE ROOM HARNESS
	5446	КИ	I U MAIN HAHNESS		080	a/w	TO MAIN HADNESS	14	۲	TO ENGINE ROOM HARNESS
10	45G	σ	TO MAIN HARNESS					15	8	TO ENGINE ROOM HARNESS
6	46G	LG	TO MAIN HARNESS	'	500	Ha		16	8	TO ENGINE ROOM HARNESS
	47G	œ	TO MAIN HARNESS		500	MAD		17	œ	TO ENGINE ROOM HARNESS
<i>"</i>	48G	w	TO MAIN HARNESS					18	8	TO ENGINE ROOM HARNESS
HTIM	49G	1	TO MAIN HARNESS	Con	nector No	ш 	169	19	B/B	TO ENGINE ROOM HARNESS
1 1201	50G	BR	TO MAIN HARNESS	Con	nector Na	ame Fl	RONT CAMERA	20	GR	TO ENGINE ROOM HARNESS
	51G	æ	TO MAIN HARNESS	Con	nector Tv	Be	H06FB-1V	21	N/R	TO ENGINE ROOM HARNESS
6	52G	-	TO MAIN HARNESS	C	nactor Cr		ACK	22	SHIELD	TO ENGINE ROOM HARNESS
0	53G	N	TO MAIN HARNESS	8		5	101	23	SHIELD	TO ENGINE ROOM HARNESS
	54G	N	TO MAIN HARNESS					24	•	TO ENGINE BOOM HABNESS
	55G	σ	TO MAIN HARNESS				[
	56G	>	TO MAIN HARNESS		ts.					
	57G	7	TO MAIN HARNESS	ļ			1 2 3			
	58G	Bg	TO MAIN HARNESS				<u>ц</u>			
	59G	BG	TO MAIN HARNESS							
	SUB	ga	TO MAIN HABNESS							
6	500				-					
s	61G	•	TO MAIN HARNESS	Ter	minal	color of	Signal Name			
	62G	>	TO MAIN HARNESS	-	ġ	Wire				
6	63G	æ	TO MAIN HARNESS		-	M	FR CAM GND			
0	64G	WL	TO MAIN HARNESS		2	œ	FR CAM POWER			





Signal Name	TO MAIN HARNESS - (WITH VK56VD)	TO MAIN HARNESS - (WITH CUMMINS 5.0L)	TO MAIN HARNESS - (WITH CLIMMINS 5 01)																				
Color of Wire	5	B/R	W/B	BR/W	BB	٩	КW	~	σ	œ	w	R/G	W/B	BB	Y/B	G/W	σ	Gγ	GV	٨٨	G√	ВΛ	G/R
Terminal No.	1G	2G	3G	4G	5G	6G	6G	7G	86	96	10G	11G	12G	13G	14G	15G	16G	17G	18G	19G	20G	21G	22G

AROUND VIEW MONITOR SYSTEM

< WIRING DIAGRAM >

FR CAM VIDEO + FR CAM VIDEO -

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TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS

BG BG W

65G 66G 67G 68G 68G

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Connector Connector	No. Name	F33 WIRE TO WIRE	Connector 1 Connector 1	No. Name	-209 MIRE TO WIRE	34F 35F	R L	
Connector	Type	NS04FW-CS	Connector 7	Type	3K26MGY-RS20-X6	37F	3 3	
Connector	Color	WHITE	Connector (Color	GRAY	38F	ΜX	
EB			f			39F	∑B (
				É	2F 3F 4F 5F	40F 41F	9/5 M	
<u>о</u> н			0.H	99	7F 8F 9F 10F 11F	42F	: >	
		4 3 2 1		12F 13	E 14E 15E 16E 17E 18E 19E 20E 21E	43F	B/P	
				2		44F	Y/B	
				22F 23	F 24F 25F 26F 27F 28F 29F 30F 31F	45F	Z	
Terminal	Color c	of		20F 33	E 34E 35E 36E 37E 38E 30E 40E 41E	46F	0	
No.	Wire	Signal Name				4/1		
-	-	TO ENGINE ROOM HARNESS		42F 4	3F 44F 45F 46F 47F	49F	- 8	
2	>	TO ENGINE ROOM HARNESS		48F	49F 50F 51F 52F	50F	SHIEL	9
e	•	TO ENGINE ROOM HARNESS		J		51F	-	
4	8	I U ENGINE HOUM HAHNESS	Terminal	Color of	Signal Name	52F	BB	
Connector	No.	F46	No.	Wire			:	H
Connector	Name	A/T ASSEMBLY (WITH	¥ ;	R/H	TO ENGINE ROOM HARNESS	Connecto	r No.	
		VK56VD)	7	a ça	TO ENGINE ROOM HARNESS TO ENGINE ROOM HARNESS	Connecto	r Name	F 0
Connector	Type	RK10FG	4F	W/R	TO ENGINE ROOM HARNESS	Connecto	r Twne	, 1
Connector	Color	GREEN	εF	B/R	TO ENGINE ROOM HARNESS	Connecto	Color	
			6F	οл	TO ENGINE ROOM HARNESS		0000	-
		<	7F	GR	TO ENGINE ROOM HARNESS	(424)		
H.S.			ßF	٩	TO ENGINE ROOM HARNESS			
			÷	M/HB	TO FNOINE POOM HARNESS			
			101	1 44	TO ENGINE POOM HARNESS			
			12F	Ma	TO ENGINE ROOM HARNESS			
			13F	GV	TO ENGINE ROOM HARNESS			
Terminal	Color 6	of Signal Name	14F	٨٧	TO ENGINE ROOM HARNESS	Terminal	Color	ę
.02			15F	ГG	TO ENGINE ROOM HARNESS	No.	Wire	•
- •		NDIV	16F	RY	TO ENGINE ROOM HARNESS	-	Z	
		CAN-H	17F	BR∕Y	TO ENGINE ROOM HARNESS	5	-	
4	BB	K-LINE	181	r :	TO FUGINE ROOM HARNESS		MA 1	
5	B	GND	191	> 0	TO ENGINE POOM HARNESS	4 u	55	
9	Y/R	VIGN	201					
2	æ	REV LAMP RELAY	215	1	TO FNOINE ROOM HARNESS	1 0	5	
8	٩	CAN-L	22F	2	TO FNOINE POOM HARNESS	~ 0	r [
6	B/B	STARTER RELAY	201		TO ENGINE POOM HARNESS	• •		
10	•	GND	241	W/B	TO ENGINE ROOM HARNESS	•	2	
			26F	BV	TO ENGINE ROOM HARNESS			
			27F	>	TO ENGINE ROOM HARNESS			
			28F	W/R	TO ENGINE ROOM HARNESS			
AAN			29F	20	TO ENGINE ROOM HARNESS			
1IA4			30F	8	TO ENGINE ROOM HARNESS			
196			31F	8	TO ENGINE ROOM HARNESS			
6G			32F	>	TO ENGINE ROOM HARNESS			

O ENGINE ROC																		
Ĕ	Ĕ	F	Ĕ	F	F	Ĕ	Ĕ	F	Ĕ	Ĕ	Ĕ	Ĕ	ř	Ĕ	ř	Ĕ	Ĕ	
L/R	RW	ГЛВ	2	ΜY	RN	G/B	×	≻	B/P	Y/B	5	0	W/L	-	BR	SHIELD	-	ĉ
34F	35F	36F	37F	38F	39F	40F	41F	42F	43F	44F	45F	46F	47F	48F	49F	50F	51F	Loi
Γ							5	<u> </u>	01F		31F] [Ë	[}		5	7	Ìſ

TO ENGINE ROOM HARNESS TO ENGINE ROOM HARNESS F212 F212 F212 F212 F212 F212 F212 F2	BR BR No. Name Type	51F 52F Connector Connector Connector
BLACK	Color	Connector
HS10FB	Type	Connector
TRANSMISSION RANGE SWITCH	Name	Connector
F212	No.	Connector
TO ENGINE ROOM HARNESS	BR	52F
TO ENGINE ROOM HARNESS	L	51F

Signal Name	RANGE SIGNAL C	RANGE SIGNAL B	IGNITION	RANGE SIGNAL PA	RANGE SIGNAL A	BATTERY	REVERSE RELAY CONT	NP SW
Color of Wire	ΓW	٩	RY	GВ	Y/R	O/L	æ	B/R
Terminal No.	1	2	3	4	5	9	7	8

TO ENGINE ROOM HARNESS																			
ГЛ	R/W	L/B	Г/0	ΜX	RV	G/B	M	۲	B/P	Y/B	5	0	WL		BR	SHIELD	٦	BR	
34F	35F	36F	37F	38F	39F	40F	41F	42F	43F	44F	45F	46F	47F	48F	49F	50F	51F	52F	

-212	No.	connector
TO ENGINE ROOM HARNESS	BR	52F
TO ENGINE ROOM HARNESS	L	51F
TO ENGINE ROOM HARNESS	SHIELD	50F
TO ENGINE ROOM HARNESS	BR	49F
TO ENGINE ROOM HARNESS		48F
TO ENGINE ROOM HARNESS	W/L	47F
TO ENGINE ROOM HARNESS	0	46F
TO ENGINE ROOM HARNESS	Ŋ	45F
TO ENGINE ROOM HARNESS	Y/B	44F
TO ENGINE ROOM HARNESS	B/P	43F
TO ENGINE ROOM HARNESS	٢	42F
TO ENGINE ROOM HARNESS	м	41F
	3	2

F212	TRANSMISSION RANGE SWITCH	HS10FB	BLACK	Ē
Connector No.	Connector Name	Connector Type	Connector Color	

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Signal Name	RANGE SIGNAL C	RANGE SIGNAL B	IGNITION	RANGE SIGNAL PA	RANGE SIGNAL A	BATTERY	REVERSE RELAY CONT	NP SW	IGNITION RELAY	
Color of Wire	ΓW	٩	RN	GR	Y/R	O/L	ж	B/R	BR/Y	
Terminal No.	-	2	8	4	5	9	7	8	6	

Revision: March 2016

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TO ENGINE ROOM HARNESS

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Connector No	M1 A	32	н	TO FRONT DOOR LH HARNESS
CONTRECTOR INO.	IVI 14	22	c	TO EDONT DOOD I U UADNESS
Contraction of the second seco		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	>	
Connector Name	WIRE IO WIRE	34		TO FRONT DOOR LH HARNESS
Connector Type	TH40MW-NH	35	×	TO FRONT DOOR I H HABNESS
Connector Color	WHITE	36		TO FRONT DOOR LH HARNESS
Æ		37		TO FRONT DOOR LH HARNESS
MHHH M		38	GR	TO FRONT DOOR LH HARNESS
ЗН		30	٩	TO FRONT DOOR LH HARNESS
1121314	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	40	œ	TO FRONT DOOR LH HARNESS
21 22 23 24	25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40			

2	6
\$	39
ę	38
17	37
9	98
\$	35
7	34
ę	33
12	32
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9	30
6	29
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Connector No.	M25
Connector Name	COMBINATION METER
	(WITH TYPE A)
Connector Type	TH12FW-NH
Connector Color	WHITE
6	

TO FRONT DOOR LH HARNE: (WITHOUT MEMORY MIRRO

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Signal Name

Color of Wire

Terminal No.

TO FRONT DOOR LH HAR (WITH MEMORY MIRRC

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TO FRONT DOOR LH HAI

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	4	47	
17	42	48	
	43	49	
	4	50	
	45	51	
	\$	52	
L	-		

TO FRONT DOOR LH HARNESS TO FRONT DOOR LH HARNESS

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												_
Signal Name	IGN	BAT	FUEL SENSOR GND	ILL CONT OUTPUT	CAN-L	CAN-H	G1	FUEL SENSOR	I	1	M CAN-L	
Color of Wire	M	æ	Nλ	GR	٩		в	BR/Y	-	1	ГС	0
Terminal No.	41	42	43	44	45	46	47	48	49	50	51	•

10 FRONT DOOR LH HARNESS 10 FRONT DOOR LH HARNESS

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TO FRONT DOOR LH HARNES

R/G

TO FRONT DOOR LH HAF

<	WIRING	DIAGRAM	>

TO FRONT DOOR LH HARNESS TO FRONT DOOR LH HARNESS TO FRONT DOOR LH HARNESS TO FRONT DOOR LH HARNESS

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TO FRONT DOOR LH HAR TO FRONT DOOR LH HAR

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TO FRONT DOOR LH HARN (WITHOUT MEMORY MIRF TO FRONT DOOR LH HARN (WITH MEMORY MIRROI

TO FRONT DOOR LH HAR

TO FRONT DOOR LH HARI (WITH MEMORY MIRRC

TO FRONT DOOR LH HARN (WITHOUT MEMORY MIRF

LG/B

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Ā	UNDE	NIE/	W MONITOR SYSTE	M CON	VECTO	RS
				25G	RW	TO ENGINE ROOM HARNI
	Connector	v	M3I	26G	œ	TO ENGINE ROOM HARNI
	Connector	Name	WIRE TO WIRE	27G	P	TO ENGINE ROOM HARNI
	Connector	Type	TH80FW-CS16-TM4	28G	G/B	TO ENGINE ROOM HARNI
	Connector	Color	WHITE	29G	G/B	TO ENGINE ROOM HARNI
	- EC			30G	BR/Y	TO ENGINE ROOM HARNI
	d Hill Ha			31G	в	TO ENGINE ROOM HARNI
	С H			32G	œ	TO ENGINE ROOM HARNI
-	5		1G 2G 3G 4G 5G	33G	٨Л	TO ENGINE ROOM HARNI
			6G 7G 8G 9G 10G	34G	GR	TO ENGINE ROOM HARNI
				35G	G/R	TO ENGINE ROOM HARNI
			116 126 136 146 156 166 176 186 196 206 216	36G	SB	TO ENGINE ROOM HARNI
	L	_	22623624625622652762862296306	37G	R/W	TO ENGINE ROOM HARNI
			31G 32G 33G 34G 35G 36G 57G 38G 39G 40G 41G	38G	BR	TO ENGINE ROOM HARNI
			426436446456466476486496506	39G	BR	TO ENGINE ROOM HARNI
			51G52G53G54G55G56C57G58G59C60C61G	40G	1	TO ENGINE ROOM HARNI
			62G 63G 64G 65G 66G 67G 68G 69G 70G	41G	R/G	TO ENGINE ROOM HARNI
			716/726/736/746/756/766/776/786/796/806/816	42G	0	TO ENGINE ROOM HARNI
			82G83G84G85G86G87G88G89G90G	43G	g	TO ENGINE ROOM HARNI
				44G	RN	TO ENGINE ROOM HARNI
			91G 92G 93G 94G 95G	45G	g	TO ENGINE ROOM HARNI
			96G 97G 98G 99G 100G	46G	ГG	TO ENGINE ROOM HARNI
]	47G	æ	TO ENGINE ROOM HARNI
				48G	×	TO ENGINE ROOM HARNI
				49G	1	TO ENGINE ROOM HARNI
	Terminal	Color o		50G	BR	TO ENGINE ROOM HARNI
	No.	Wire	signal Name	51G	в	TO ENGINE ROOM HARNI
	16	σ	TO ENGINE ROOM HARNESS	52G	L	TO ENGINE ROOM HARNI
	2G	B/B	TO ENGINE ROOM HARNESS	53G	W	TO ENGINE ROOM HARNI
	3G	>	TO ENGINE ROOM HARNESS	54G	W	TO ENGINE ROOM HARNI
	4G	BR/W	TO ENGINE ROOM HARNESS	55G	g	TO ENGINE ROOM HARNI
	5G	BB	TO ENGINE ROOM HARNESS	56G	M	TO ENGINE ROOM HARNI
	66	RW	TO ENGINE ROOM HARNESS	57G	٨	TO ENGINE ROOM HARNI
	7G	>	TO ENGINE ROOM HARNESS	58G	BG	TO ENGINE ROOM HARNI
	86	σ	TO ENGINE ROOM HARNESS	59G	BG	TO ENGINE ROOM HARNI
	96	œ	TO ENGINE ROOM HARNESS	60G	BG	TO ENGINE ROOM HARNI
	10G	>	TO ENGINE ROOM HARNESS	61G	0	TO ENGINE ROOM HARNI
	11G	R/G	TO ENGINE ROOM HARNESS	62G	M	TO ENGINE ROOM HARNI
	12G	W/B	TO ENGINE ROOM HARNESS	63G	0	TO ENGINE ROOM HARNI
	13G	BR	TO ENGINE ROOM HARNESS	64G	WL	TO ENGINE ROOM HARNI
	14G	Y/B	TO ENGINE ROOM HARNESS	65G	W/R	TO ENGINE ROOM HARNI
	15G	GW	TO ENGINE ROOM HARNESS	66G	BG	TO ENGINE ROOM HARNI
	16G	σ	TO ENGINE ROOM HARNESS	67G	0	TO ENGINE ROOM HARNI
	17G	0	TO ENGINE ROOM HARNESS	68G	B	TO ENGINE ROOM HARNI
	18G	Ğ	TO ENGINE ROOM HARNESS	969 260	>	TO ENGINE ROOM HARNI
	19G	٨X	TO ENGINE ROOM HARNESS	70G		TO ENGINE ROOM HARNI
	20G	G√	TO ENGINE ROOM HARNESS	71G	RW	TO ENGINE ROOM HARNI
	21G	ВΛ	TO ENGINE ROOM HARNESS	72G	LW	TO ENGINE ROOM HARNI
AAN	22G	G/R	TO ENGINE ROOM HARNESS -	73G	SHIELD	TO ENGINE ROOM HARNI
IA4	22G	GV	TO ENGINE ROOM HARNESS -	750	s c	TO ENGINE ROOM HARNI
1968			(WITH VK56VD)	DC/	н В/В	TO ENGINE ROOM HARN
3GB	23G	Υ/R	TO ENGINE ROOM HARNESS	2022	2 9	TO ENGINE ROOM HARNI
	24G	G/B	TO ENGINE ROOM HARNESS	3	3	

| TO ENGINE ROOM HARNESS |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| ٩ | 1 | н | | н | L | Г | M | B/B | × | U | ٩ | U | ٩ | ٨/٧ | BR | 8 | g | ж | н | W/B | н | GR/W |
| 78G | 79G | 80G | 81G | 82G | 83G | 84G | 85G | 86G | 87G | 88G | 89G | 90G | 91G | 92G | 93G | 94G | 95G | 96G | 97G | 98G | 99G | 1000 |

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FUSE BLOCK (J/B)	Name	Connector
M39	No.	Connector
		0001
TO ENGINE ROOM HARNES	W/B	98G
TO ENGINE ROOM HARNESS	æ	97G
TO ENGINE ROOM HARNESS	в	96G
TO ENGINE ROOM HARNESS	σ	95G
TO ENGINE ROOM HARNESS	в	94G
TO ENGINE ROOM HARNESS	BR	93G
TO ENGINE ROOM HARNESS	ΝΛ	92G

No.	M39
Name	FUSE BLOCK (J/B)
Type	NS08FW-CS
Color	WHITE
	30 20 10
	80 70 60 50 40

SS SS

SS SS SS

Signal Name	T	IGNITION	I	I	I	BATTERY	IGNITION	I	
Color of Wire	1	O/L	1	ı	1	R/W	R/W		
Terminal No.	ā	20	30	40	50	60	70	80	

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5 5 5 5 5 5	Signal Name	1	IGNITION	I	I	1	BATTERY	IGNITION	I
	Color of Wire	1	OVL	1	ı	ı	RW	R/W	1
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Revision: March 2016





2016 Titan NAM

AANIA4969GB

AROUND VIEW MONITOR SYSTEM [AROUND VIEW MONITOR SYSTEM]

< WIRING DIAGRAM >

CONNECTORS
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AROUND VIEW M

Connector No.	M70	Connector No.	M74
Connector Name	FUSE BLOCK (J/B)	Connector Name	WIRE TO WIRE
Connector Type	NS16FBR-CS	Connector Type	TH32MW-NH
Connector Color	BROWN	Connector Color	WHITE
H		EE E	
H.S. 7R 6 16R 15	R 5R 4R 3R 2R 1R 5R14R13R12R11R 10R 9R 8R	H.S.	20 21 22 23 24 25 26 27 28 29 30 31 32

erminal No.	Color of Wire	Signal Name	Termir No.
1R	_	TAIL LAMP 2	-
2R	G/R	IGNITION	N
ЗR	Y/R	BATTERY	ę
4H	•	1	4
5R	×	BATTERY	ŝ
68	GW	ACCESSORY	ω
7R	æ	BATTERY	2
88	'	Т	ø
98	•	I	6
10R	×	BATTERY	10
11R	1	I	F
12R	BG	BATTERY	12
13R	•	ACCESSORY	13
14R	G√	BATTERY	14
15R	>	BATTERY	15
16R	G/R	ACCESSORY	16
			17
nnector	No.	M73	18
notor	- Currol		19
Intector	Name	BAUN-UP LAMP RELAT	20
		-	

TO FRONT DOOR RH HARNESS TO FRONT DOOR RH HARNESS TO FRONT DOOR RH HARNESS TO FRONT DOOR RH HARNESS

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Signal Name

Color of Wire

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SB LV WR WL LG

TO FRONT DOOR RH HARI

13R 14R	в №	ACCESSORY BATTERY
	>	BATTERY
	G/R	ACCESSORY
ector No.	-	473
ector Na	me	3ACK-UP LAMP RELAY
ector Typ	- 0	A06FBR-R-LC
ector Co	or L	BROWN
نې ن		2

TO FRONT DOOR RH HARNESS TO FRONT DOOR RH HARNESS (WITHOUT AUTOMATIC DRIVE POSITIONER) TO FRONT DOOR RH HARNESS (WITH AUTOMATIC DRIVE POSITIONER)

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TO FRONT DOOR RH HARNI

TO FRONT DOOR RH HARN

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TO FRONT DOOR RH HARNESS TO FRONT DOOR RH HARNESS TO FRONT DOOR RH HARNESS

GR/R

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Signal Name	GROUND	REV LAMP RELAY	IGNITION	REVERSE	BATTERY	REVERSE	
Color of Wire	9	æ	9	G/W	W/B	Y/R	
Terminal No.	1	7	3	5	9	7	
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GROUND	REV LAMP RELAY	IGNITION	REVERSE	BATTERY	REVERSE	
U	н	U	G/W	W/B	Y/R	

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AV

BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000013023635

OVERALL SEQUENCE



• Reference 1: Refer to AV-306, "CONSULT Function".

- Reference 2: Refer to <u>AV-313, "DTC Index"</u>.
- Reference 3: Refer to <u>AV-358, "Symptom Table"</u>.

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 a malfunction?

2. DIAGNOSIS WITH CONSULT

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >	[AROUND VIEW MONITOR SYSTEM]
1. Connect CONSULT and perform a self-diagnosis for "MULT NOTE:	AV". Refer to <u>AV-306, "CONSULT Function"</u> .
Skip to step 4 of the diagnosis procedure if "MULTI AV" is no	ot displayed.
2. When DTC is detected, follow the instructions below:	
- Record DTC and Freeze Frame Data (FFD).	В
Is DTC displayed?	
YES >> GO TO 3. NO >> GO TO 4.	C
3. TROUBLE DIAGNOSIS FOR DTC	0
 Check the DTC indicated in the "Self Diagnostic Result". Perform the relevant diagnosis referring to the DTC Index. F 	Refer to <u>AV-313, "DTC Index"</u> .
>> GO TO 5.	_
4. TROUBLE DIAGNOSIS FOR SYMPTOMS	E
Perform the relevant diagnosis referring to the diagnosis characteristic terms of terms of the diagnosis characteristic terms of the diagnosis characteristic terms of terms	rt by symptom. Refer to <u>AV-358. "Symptom</u> F
>> GO TO 5.	
5. ERROR PART REPAIR	G
 Repair or replace the identified malfunctioning parts. Perform a self-diagnosis for "MULTI AV". 	
NOTE: Erase the stored self-diagnosis results after repairing or re	placing 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.	L
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ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CON-TROL UNIT

< BASIC INSPECTION >

[AROUND VIEW MONITOR SYSTEM]

ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT

Description

INFOID:000000013023636

When replacing around view monitor control unit, save or print current vehicle specification with CONSULT "Configuration" before replacement.

BEFORE REPLACEMENT

NOTE:

If "READ CONFIGURATION" can not be used, use the "MANUAL CONFIGURATION" after replacing around view monitor control unit

AFTER REPLACEMENT

- When replacing around view monitor control unit, you must perform "WRITE CONFIGURATION" with CONSULT.
- Never perform "WRITE CONFIGURATION" except for new around view monitor control unit

Work Procedure

INFOID:000000013023637

1.SAVING VEHICLE SPECIFICATION

CONSULT Configuration

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>AV-331, "Descrip-</u> tion".

NOTE:

If "READ CONFIGURATION" can not be used, use "MANUAL CONFIGURATION" after replacing around view monitor control unit.

>> GO TO 2.

2.REPLACE AROUND VIEW MONITOR CONTROL UNIT

Replace around view monitor control unit. Refer to <u>AV-360, "Removal and Installation"</u>.

>> GO TO 3.

3.WRITING VEHICLE SPECIFICATION

CONSULT Configuration

Perform "WRITE CONFIGURATION - Config file" or "MANUAL CONFIGURATION" to write vehicle specification. Refer to <u>AV-331, "Work Procedure"</u>.

>> GO TO 4.

4.CALIBRATE CAMERA IMAGE

Perform calibration of camera image. Refer to <u>AV-332</u>, "CALIBRATING CAMERA IMAGE (AROUND VIEW <u>MONITOR)</u>: Description".

>> Work End.

CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT) < BASIC INSPECTION > [AROUND VIEW MONITOR SYSTEM]

CONFIGURATION (AROUND VIEW MONITOR CONTROL UNIT)

Description

INFOID:000000013023638

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Function	Description
READ CONFIGURATION	 Reads the vehicle configuration of current around view monitor control unit. Saves the read vehicle configuration.
WRITE CONFIGURATION - Manual setting	Writes the vehicle configuration with manual setting.
WRITE CONFIGURATION - Config file	Writes the vehicle configuration with saved data.
 CAUTION: When replacing around view monit CONSULT. Never perform "WRITE CONFIGUR 	tor control unit, you must perform "WRITE CONFIGURATION" ATION" except for new around view monitor control unit.
Work Procedure	INFOID:0000000
1.WRITING MODE SELECTION	
CONSULT Configuration Select "CONFIGURATION" of AVM.	
When writing saved data>>GO TO 2. When writing manually>>GO TO 3.	
2.perform "write configurati	ION - CONFIG FILE"
CONSULT Configuration Perform "WRITE CONFIGURATION - (Config file".
>> Work End.	
3. PERFORM "MANUAL CONFIGURA	ATION"
CONSULT Configuration Select "MANUAL CONFIGURATION" to	o write vehicle specifications into the around view monitor control u
Thoroughly read and understand the control of ECU	he vehicle specification. Incorrect settings may result in abno
 Make sure to select "NEXT" even settings. If "NEXT" is not selected, NOTE: 	if the default settings displayed on the CONSULT are the des , the configuration process will be incomplete.
If manual configuration items are not di	isplayed, touch "NEXT".
>> GO TO 4.	

>> Work End.

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

PREDICTIVE COURSE LINE CENTER POSITION ADJUSTMENT

PREDICTIVE COURSE LINE CENTER POSITION ADJUSTMENT : Description

-INFOID:000000013023640

Adjust the center position of the predictive course line of the front view and rear view monitor.

PREDICTIVE COURSE LINE CENTER POSITION ADJUSTMENT : Work Procedure

INFOID:000000013023641

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.

>> Work End.

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description

INFOID:000000013023642

- 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 flow chart shown in the figure, perform calibration:



 For details of calibration operation, refer to <u>AV-332</u>. "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR): Work Procedure".

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Work Procedure

CAUTION:

INFOID:000000013023643

< BASIC INSPECTION >

[AROUND VIEW MONITOR SYSTEM]

When around view monitor control unit is replaced, perform the control unit setting before performing this calibration. Refer to <u>AV-332</u>, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : <u>Description</u>".

1.CHECK AROUND VIEW MONITOR SCREEN

Check whether or not un-match display "
Check whether or not 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.

Is around view monitor control unit replaced?

YES >> GO TO 3.

NO >> GO TO 5.

 $\mathbf{3.}$ Release un-match display (perform only when around view monitor control unit is replaced)

CONSULT Work Support
 Select "CALIBRATING CAMERA IMAGE".
 NOTE:

In random order, perform the operation for all cameras for which un-match display "

- 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", and then press "OK" button. CAUTION:
 - Never perform any operation other than selecting "APPLY" button.
 - Never perform "INITIALIZE CAMERA IMAGE CALIBRATION".
- 3. 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?

YE: NO	S >> Calibration end. >> GO TO 1.	M
4 . _P	PERFORM SIMPLIFIED CONFIRMATION/ADJUSTMENT BY "FINE TUNING OF BIRDS-EYE VIEW"	
1.	Put target line 1 beside each axle using packing tape, etc.	AV

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) (parallel to the vehicle as much as possible).

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< BASIC INSPECTION >



1. 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" on CONSULT screen and select camera position for adjustment.

CAUTION:

- 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



1. Target lines 1

A.

2. Target lines 2

3. Marker for target line 1

- 4. Boundary between cameras
 - Adjustment method for target lines 1 (right)
- 5. Crosshair cursor (mark indicated by the selected camera)
 - Adjustment method for target lines 2 (right)
- 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".

AV-334

< BASIC INSPECTION >

NOTE:

- The setting can be initialized to factory default condition using "CALIBRATING CAMERA IMAGE" of Work Support.
- The adjustment value on this mode is canceled 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. >> GO TO 5.

NO

5. PERFORM "CALIBRATING CAMERA IMAGE"

Preparation of target line

- Hang a string with a weight as shown in the figure. Put the points FM0 and RM0 (mark) on the ground at 1. the center of the vehicle front end and rear end using white packing tape or a pen.
- Route the vinyl string under the vehicle, and then pull and fix the vinyl string at a point approximately 1.0 2. m (39.37 in) at the front and rear of the vehicle through points FM0 and RM0 using packing tape.



4. Point RM0 (mark)

1.

- Packing tape (to fix the vinyl string)
- 6. Vinyl string
- 3. Put points FM and RM (mark) 75 cm (29.53 in) from the points FM0 and RM0 individually.

5.

- Route the vinyl string through points FM and RM using a triangle scale, and then fix it at approximately 1.5 4 m (59.06 in) on both sides with packing tape.
- Put points FL, FR, RL, and RR (mark) at a distance of half the vehicle width, plus 30 cm (11.81 in) to the 5. left and right from points FM and RM.



Revision: March 2016

2016 Titan NAM

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< BASIC INSPECTION >

3.

C:

1. Point FM

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- 4. Point FL (mark)
- Point RR (mark) 7

75 cm (29.53 in)

- 2. Point RM
- 5. Point FR (mark)

- Β. Approximately 1.5 m (59.06 in)

Triangle scale 6. Point RL (mark)

> 30 cm (11.81 in) [A half of the vehicle width plus 30 cm (11.81 in) from the points FM and RM]

- Draw the lines of the points FL RL and FR RR with the vinyl string, and fix them with packing tape. 6.
- 7. 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 (39.37 in) back-8. ward from the mark placed at the center of rear axle so that the line becomes perpendicular to the line drawn between point FL-RL and point FR-RR and fix with packing tape.

Target line preparation procedure 3



Point FL 1.

2. Point FR

Center position of axle

3. Point RL 6. Triangle scale

Point RR 4 A. 1 m (39.37 in)

Perform "CALIBRATING CAMERA IMAGE"

(P)CONSULT Work Support

Select "CALIBRATING CAMERA IMAGE". 1.

NOTE: In random order, perform the operation for all cameras.

- Front camera: "CALIBRATING CAMERA IMAGE (FRONT CAMERA)"

5.

- 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.
- Press "APPLY" on CONSULT screen. "Writing ... " is displayed, and then the adjustment result is displayed 3. on the display. CAUTION:

Check that "Writing..." is displayed. Never perform other operations while "Writing..." is displayed.

Press "APPLY" on CONSULT screen. "Writing..." is displayed, and then the adjustment result is written to 4. around view monitor control unit. CAUTION:

Check that "Writing..." is displayed. Never perform other operations while "Writing..." is displayed.

>> GO TO 6.

< BASIC INSPECTION >

[AROUND VIEW MONITOR SYSTEM]

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

1. Select "FINE TUNING OF BIRDS-EYE VIEW".



Perform adjustment operation slowly because approximately 1 second is required for changing image on screen. NOTE:

Press "SELECT" on CONSULT screen and select camera position for adjustment.

3. Press "APPLY" 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.

- F 4. Press "APPLY" 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 canceled when "INITIALIZE CAMERA IMAGE CALIBRATION" is performed.

>> Calibration end.

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DTC/CIRCUIT DIAGNOSIS U0428 STEERING ANGLE SENSOR

DTC Description

INFOID:000000013023644

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition
		Diagnosis condition	When ignition switch is ON
U0428 ST ANGLE SENSC U0428 TION (Steering angle ser	ST ANGLE SENSOR CALIBRA-	Signal (terminal)	—
	(Steering angle sensor calibration)	Threshold	_
		Diagnosis delay time	

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

DTC CONFIRMATION PROCEDURE

1.CHECK DTC PRIORITY

If DTC U0428 is displayed with DTC U1232, first perform the diagnosis for DTC U1232.

Is DTC U1232 detected?

YES >> Proceed to <u>AV-350, "DTC Description"</u>.

NO >> GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "AVM" using.
- 3. Check DTC.

Is DTC U0428 detected?

- YES >> Proceed to AV-338, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013023645

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 <u>BRC-70, "Work Procedure"</u>. 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

CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "AVM" using.
- 4. Check DTC.

U0428 STEERING ANGLE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is DTC U0428 detected? >> Replace steering angle sensor. Refer to <u>BRC-165, "Removal and Installation"</u>. А YES NO >> Inspection End. В С D Е F G Н J Κ

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U1000 CAN COMM CIRCUIT

DTC Description

INFOID:000000013023646

[AROUND VIEW MONITOR SYSTEM]

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 two 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-70</u>, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart".

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
		Diagnosis condition	When ignition switch is ON
111000	CAN COMM CIRCUIT	Signal (terminal)	—
01000	(CAN COMM CIRCUIT)	Threshold	_
		Diagnosis delay time	—

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

- When communication of steering angle sensor signal is not normal:
- Predicted course line is not displayed
- MOD (Moving Object Detection) function is stopped
- 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.

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "AVM".
- 3. Check DTC.

Is DTC U1000 detected?

- YES >> Proceed to <u>AV-340, "Diagnosis Procedure"</u>.
- NO-1 >> To check malfunction symptom before repair: GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013023647

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "AVM".
- Check DTC.

Is DTC U1000 detected?

- YES >> Refer to LAN-51, "Trouble Diagnosis Flow Chart".
- NO >> Refer to <u>GI-43, "Intermittent Incident"</u>.

U1010 CONTROL UNIT (CAN) [AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Description

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DTC No.	CONSULT screen terms (Trouble diagnosis content)		DTC detection condition	C
		Diagnosis condition	When ignition switch is ON	-
111010	CONTROL UNIT(CAN)	Signal (terminal)		-
01010	[Control unit(CAN)]	Threshold		C
		Diagnosis delay time	-	-
POSSIBLE Around view	CAUSE monitor control unit			E
				F
DTC CONF	RMATION PROCEDURE			
	M DTC CONFIRMATION PRO			G
				-
 Turn igni Select "S Check D 	tion switch ON. Self Diagnostic Result" mode o TC.	of "AVM".		H
Is DTC U101 YES >> F NO-1 >> 7 NO-2 >> 0	<u>0 detected?</u> Proceed to <u>AV-341, "Diagnosis</u> To check malfunction sympton Confirmation after repair: Insp	<u>s Procedure"</u> . n before repair: <u>GI-43, "I</u> ection End.	ntermittent Incident".	
Diagnosis	Procedure		INFQID:00000001302364	ل و
1.PERFORM	M DTC CONFIRMATION PRO	CEDURE		k
				- N
 Turn igni Erase D⁻ Select "S Check D 	tion switch ON. FC. Self Diagnostic Result" mode o TC.	of "AVM".		L
Is DTC U101 YES >> F NO >> I	<u>0 detected?</u> Replace around view monitor nspection End.	control unit. Refer to <u>AV</u>	-360, "Removal and Installation".	N
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U111A REAR CAMERA IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

U111A REAR CAMERA IMAGE SIGNAL CIRCUIT

DTC Description

INFOID:000000013023650

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition
		Diagnosis condition	When ignition switch is ON
	Si REAR CAMERA IMAGE SIGNAL	Signal (terminal)	Rear camera image signal (terminal 20)
U111A	(CAN COMM CIRCUIT)	Threshold	Rear camera image signal circuit is shorted or open
		Diagnosis delay time	—

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

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "AVM".
- 3. Check DTC.

Is DTC U111A detected?

- YES >> Proceed to AV-342, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013023651

1. CHECK CONTINUITY OF REAR VIEW CAMERA POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect around view monitor control unit connector B83 and rear view camera connector C151.
- Check continuity between around view monitor control unit connector B83 and rear view camera connector C151.

Around view monitor control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	Continuity
R83	17	C151	2	Vec
605	18	0151	1	165

4. Check continuity between around view monitor control unit connector B83 and ground.

Around view mo	onitor control unit		Continuity
Connector Terminal		Ground	Continuity
B83	B83 18		No

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE OF REAR VIEW CAMERA POWER SUPPLY

1. Connect around view monitor control unit connector B83 and rear view camera connector C151.

U111A REAR CAMERA IMAGE SIGNAL CIRCUIT [AROUND VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Turn ignition switch ON. Check voltage between a 2.

a..... . : 4 . • • tor DOO ٦ 4

	+)				
Around view mo	nitor control unit	(-)	Conditi	on	Voltage
Connector	Terminal				(Αρριολ.)
B83	18	Ground	"CAMERA" switch position is "R".	is ON or shift	6.0 V
s the inspection re	sult normal?				
YES >> GO TO	3.	ten eentrel ooit D			- 4 - 11 - 4 ¹ 11
NO >> Replac	e around view moni	tor control unit. Re	eter to <u>AV-360, "Re</u>	emoval and Ins	<u>stallation"</u> .
CHECK CONTIN	NULLY OF REAR VI		AGE SIGNAL CIRO		
tor C151.				 .	
Around view	monitor control unit	Rear view camera		Continuity	
Connector	Ierminal	Connec	tor le	rminal	
B83	19	C151	51 4		Yes
Oh a alu a antinui	20			3	
		new momilor contr	of unit namess co	Infector Dos a	na grouna.
Arour	d view monitor control u	nit			
7 4 0 0 1	Connector Terminal Ground				Continuity
Connector					
Connector B83		20			No
Connector B83 Sthe inspection re YES >> GO TO NO >> Repair	sult normal? 4. harness or connect	20 or.			No
Connector B83 the inspection res YES >> GO TO NO >> Repair CHECK REAR \	<u>sult normal?</u> 4. harness or connect /IEW CAMERA IMA	20 Dr.			No
Connector B83 Sthe inspection re: YES >> GO TO NO >> Repair CHECK REAR \ Connect aroun Turn ignition sv Check signal b	sult normal? 4. harness or connect /IEW CAMERA IMA d view monitor contr /itch ON. etween around view	20 or. GE SIGNAL rol unit connector	B83 and rear view nit connector B83.	camera conn	No ector C151.
Connector B83 Sthe inspection re: YES >> GO TO NO >> Repair CHECK REAR \ Connect aroun Turn ignition sv Check signal b Around view r	sult normal? 4. harness or connect /IEW CAMERA IMA d view monitor contro vitch ON. etween around view	20 or. GE SIGNAL rol unit connector monitor control u	B83 and rear view nit connector B83.	camera conn	No ector C151.

Connector	(+)	(-)	Condition	Reference value	
Connector	Terr	minal			- Α\/
B83	20	19	"CAMERA" switch is ON or shift posi- tion is "R".	$\begin{pmatrix} V \\ 1 \\ 0 \\ -1 \\ \hline 40 \\ \mu s \\ \end{bmatrix}$	O P

Is the inspection result normal?

>> Replace around view monitor control unit. Refer to AV-360. "Removal and Installation". YES

NO >> Replace rear view camera. Refer to AV-363, "Removal and Installation".

U111B SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

U111B SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

DTC Description

INFOID:000000013023652

[AROUND VIEW MONITOR SYSTEM]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
		Diagnosis condition	When ignition switch is ON	
	SIDE CAMERA RH IMAGE SIG- NAL (Side camera right image signal)	Signal (terminal)	Door mirror RH signal circuit (terminal 12)	
U111B		Threshold	Door mirror RH signal circuit is open or shorted	
		Diagnosis delay time	—	

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

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "AVM".
- 3. Check DTC.

Is DTC U111B detected?

- YES >> Proceed to AV-344, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013023653

1. CHECK CONTINUITY OF SIDE CAMERA RH POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect around view monitor control unit connector B83 and door mirror RH connector D107.
- Check continuity between around view monitor control unit connector B83 and door mirror RH connector D107.

Around view monitor control unit		Door m	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
R83	9	D107	19	Vec
883	10		7	165

4. Check continuity between around view monitor control unit connector B83 and ground.

Around view me	onitor control unit		Continuity
Connector	Terminal	Ground	Continuity
B83	10		No

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE OF SIDE CAMERA RH POWER SUPPLY

1. Connect around view monitor control unit connector B83 and door mirror RH connector D107.

U111B SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

2. Turn ignition switch ON.

Check voltage between around view monitor control unit connector B83 and ground 2

	(+)					Voltage
Around vie	ew monitor contro	ol unit	(-)	-) Condition "CAMERA" switch is ON or s		(Approx.)
B83	,	10	Ground	"CAMERA" switch is ON or shift po- sition is "R".		6.0 V
s the inspecti YES >> G NO >> R CHECK CO . Turn igniti Disconner Disconner D107.	on result norr O TO 3. eplace around DNTINUITY C ion switch OF ct around view ntinuity betwe	nal? d view monitor DF SIDE CAME F. w monitor cont een around vie	control unit ERA RH IMA rol unit conr w monitor c	Refer to <u>AV-3</u> AGE SIGNAL C nector B83 and ontrol unit con	60, "Removal and I CIRCUIT door mirror RH cor nector B83 and doo	nstallation". nnector D107. or mirror RH conne
Aroun	d view monitor c	ontrol unit		Door mirro	or RH	0 // //
Connect	or	Terminal	Со	Connector Terminal		Continuity
B83		11 12		D107 20 8		- Yes
Aroun	d view monitor c					
Connect	or	Terminal	Ground Conti		Ground	
B83		12				No
YES >> G NO >> R .CHECK SII . Connect a . Turn igniti . Check sig	O TO 4. epair harness DE CAMERA around view n on switch ON nal between	or connector. RH IMAGE Sinonitor control I. around view m	GNAL unit connec onitor contr	tor B83 and do	or mirror RH conne or B83.	ector D107.
Around	view monitor co	ntrol unit				
Connector	(+)	(-)]	Condition		eference value
Connector	Ter	minal				
	10		"CAMERA" s	switch is ON or shi		

Is the inspection result normal?

YES >> Replace around view monitor control unit. Refer to AV-360, "Removal and Installation".

NO >> Replace side camera RH. Refer to AV-362, "Removal and Installation". JSNIA0834GB

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U111C FRONT CAMERA IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

U111C FRONT CAMERA IMAGE SIGNAL CIRCUIT

DTC Description

INFOID:000000013023654

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
		Diagnosis condition	When ignition switch is ON	
U111C	FRONT CAMERA IMAGE SIG- NAL (Front camera image signal)	Signal (terminal)	Front view camera image signal (terminal 8)	
		Threshold	Front camera image signal circuit is open or shorted	
		Diagnosis delay time	—	

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

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "AVM".
- 3. Check DTC.

Is DTC U111C detected?

- YES >> Proceed to AV-346, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013023655

1. CHECK CONTINUITY OF FRONT CAMERA POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect around view monitor control unit connector B83 and front camera connector E169.
- Check continuity between around view monitor control unit connector B83 and front camera connector E169.

Around view mo	onitor control unit	Front	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
R83	5	E160	1	Vec	
883	000	6	L 103	2	165

4. Check continuity between around view monitor control unit connector B83 and ground.

Connector Terminal Ground B83 6 No	Around view mo	onitor control unit		Continuity
B83 6 No	Connector	Terminal	Ground	Continuity
	B83	6		No

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE OF FRONT CAMERA POWER SUPPLY

1. Connect around view monitor control unit connector B83 and front camera connector E169.

U111C FRONT CAMERA IMAGE SIGNAL CIRCUIT [AROUND VIEW MONITOR SYSTEM]

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2. Turn ignition switch ON.

3. Check voltage between around view monitor control unit connector B83.

					N / - 11
Connector	(+)	(-)	Condition		Voltage (Approx.)
Connector		Terminal			
B83	6	5	"CAMERA" switch is Of tion is "R".	N or shift posi-	6.0 V
s the inspection	on result norm	al?			
YES >> G NO >> R .CHECK CO	O TO 3. ∋place around)NTINUITY O'	view monitor	control unit. Refer to <u>AV-3</u> /IERA IMAGE SIGNAL CI	60, "Removal RCUIT	and Installation".
. Turn igniti 2. Disconnec 3. Check co E169.	on switch OFF around view ntinuity betwe	monitor contro en around vie	ol unit connector B83 and w monitor control unit co	front camera on nector B83 a	connector E169. nd front camera connecto
Around	d view monitor co	ntrol unit	Front car	nera	0
Connecto	or	Terminal	Connector	Terminal	Continuity
B83		7 8	– E169 –	E169 5	
B83		8	Grour	Ground	
s the inspection YES >> G	<u>on result norm</u> O TO 4. epair harness	<u>al?</u> or connector.			
NO >> Ro 1. CHECK FR 1. Connect a 2. Turn igniti 3. Check sig	CONT CAMER round view m on switch ON. nal between a	A IMAGE SIG onitor control u round view mo	NAL unit connector B83 and fro onitor control unit connect	ont camera cor or B83.	nector E169.
NO >> Re 1 .CHECK FR 1. Connect a 2. Turn igniti 3. Check sig Around	view monitor cor	A IMAGE SIG onitor control u round view mo	NAL unit connector B83 and fro onitor control unit connect	ont camera cor or B83.	inector E169.
NO >> Re 1. CHECK FR 1. Connect a 2. Turn igniti 3. Check sig Around	CONT CAMER round view m on switch ON. nal between a view monitor cor (+)	A IMAGE SIG onitor control u round view mo itrol unit (-)	NAL unit connector B83 and fro onitor control unit connect Condition	ont camera cor or B83.	nector E169. Reference value
NO >> Re 1 .CHECK FR 1. Connect a 2. Turn igniti 3. Check sig Around Connector	CONT CAMER round view m on switch ON. nal between a view monitor cor (+) Terr	A IMAGE SIG onitor control u round view mo itrol unit (-) ninal	NAL unit connector B83 and fro onitor control unit connect Condition	ont camera cor or B83.	nector E169. Reference value

>> Replace around view monitor control unit. Refer to <u>AV-360, "Removal and Installation"</u>. >> Replace front camera. Refer to <u>AV-361, "Removal and Installation"</u>. YES

NO

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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

INFOID:000000013023656

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition
		Diagnosis condition	When ignition switch is ON
U111D	SIDE CAMERA LH IMAGE SIG- NAL (Side camera left image signal)	Signal (terminal)	Side camera LH image signal (terminal 16)
		Threshold	Side camera LH image signal circuit is open or shorted
		Diagnosis delay time	—

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

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "AVM".
- 3. Check DTC.

Is DTC U111D detected?

- YES >> Proceed to AV-348, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: <u>GI-43, "Intermittent Incident"</u>.
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013023657

1. CHECK CONTINUITY OF SIDE CAMERA LH POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect around view monitor control unit connector B83 and door mirror LH connector D4.
- Check continuity between around view monitor control unit connector B83 and door mirror LH connector D4.

Around view mo	onitor control unit	Door mirror LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B83	13	ри	19	Vec
	14	D4	7	Tes

4. Check continuity between around view monitor control unit harness connector B83 and ground.

Around view control module			Continuity
Connector	Terminal	Ground	Continuity
B83	14		No

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE OF SIDE CAMERA LH POWER SUPPLY

1. Connect around view monitor control unit connector B83 and door mirror LH connector D4.

U111D SIDE CAMERA LH IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

2. Turn ignition switch ON.

3. Check voltage between around view monitor control unit connector B83 and ground.

	d view monitor co	ontrol unit			
Connector	(+)	(-)	Conditi	on	Voltage (Approx.)
Connector	Те	erminal			V FF - 7
B83	14	13	"CAMERA" switch i position is "R".	s ON or shift	6.0 V
<u>s the inspecti</u> YES >> G NO >> R 3. CHECK CC	on result norm O TO 3. eplace around ONTINUITY O	<u>ial?</u> I view monito F SIDE CAM	or control unit. Refer IERA LH IMAGE SIG	o <u>AV-360. "R</u> NAL CIRCUI	<u>emoval and Installation"</u> . T
 Turn igniti Disconnet Check col D4. 	on switch OFF ct around view ntinuity betwe	- / monitor con en around vi	ntrol unit connector B ew monitor control u	83 and door i nit connector	mirror LH connector D4. B83 and door mirror LH connecto
Around v	view monitor cont	rol unit	Door mir	or LH	Question vite
Connector	- Te	erminal	Connector	Terminal	Continuity
B83		15 16	D4	20 8	Yes
			Ground		CONTINUITY
Connector B83		rminals 16	Grou	nd	No
Connecto B83 Sthe inspecti YES >> G NO >> R CHECK SII CHECK SII Check sig Check sig	Te on result norm O TO 4. epair harness DE CAMERA around view m on switch ON nal between a	rminals 16 or connector LH IMAGE S onitor contro	Grou r. BIGNAL I unit connector B83 monitor control unit c	and door mir	ror LH connector D4.
Connector B83 S the inspection YES >> G NO >> R 4.CHECK SII 1. Connect a 2. Turn ignition 3. Check signation Around	Te on result norm O TO 4. epair harness DE CAMERA around view m on switch ON. nal between a	rminals 16 al? or connector LH IMAGE S onitor contro fround view r	Grou F. BIGNAL I unit connector B83 monitor control unit c	and door mir	ror LH connector D4.
Connector B83 s the inspection YES >> G NO >> R CHECK SII CONNECT a Connect a Connector	Te on result norm O TO 4. epair harness DE CAMERA around view m on switch ON. nal between a view monitor cor (+)	rminals 16 aal? or connector LH IMAGE S onitor contro pround view r httpl unit (-)	Grou SIGNAL I unit connector B83 monitor control unit c	and door mir onnector B83	ror LH connector D4.
Connector B83 YES >> G NO >> R 4.CHECK SII 1. Connect a 2. Turn igniti 3. Check sig Around Connector	Te on result norm O TO 4. epair harness DE CAMERA around view m on switch ON nal between a view monitor cor (+)	rminals 16 16 16 17 16 17 16 17 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17	Grou Grou Grou Grou Grou Grou Grou Grou	and door mir onnector B83	ror LH connector D4.

YES >> Replace around view monitor control unit. Refer to <u>AV-360, "Removal and Installation"</u>.

NO >> Replace side camera LH. Refer to <u>AV-362, "Removal and Installation"</u>.

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U1232 STEERING ANGLE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

U1232 STEERING ANGLE SENSOR

DTC Description

INFOID:000000013023658

[AROUND VIEW MONITOR SYSTEM]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
		Diagnosis condition	When ignition switch is ON	
111232	ST ANGLE SEN CALIB	Signal (terminal)	—	
(Steering angle sensor calibration	Threshold	—		
		Diagnosis delay time	—	

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

CONSULT

- Turn ignition switch ON.
- 2. Select "Self diagnostic result" mode of "AVM".
- 3. Check DTC.

Is DTC U1232 detected?

- YES >> Proceed to <u>AV-350, "Diagnosis Procedure"</u>.
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013023659

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

Adjust the steering angle sensor neutral position on ABS actuator and electrical unit (control unit) side. Refer to <u>BRC-70, "Work Procedure"</u>.

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

CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self diagnostic result" mode of "AVM".
- 4. Check DTC.

Is DTC U1232 detected?

- YES >> Replace steering angle sensor. Refer to <u>BRC-165</u>, "Removal and Installation".
- NO >> Inspection End.

< DTC/CIRCUIT DIAGNOSIS >

U1302 CAMERA POWER VOLT

DTC Description

INFOID:000000013023660

[AROUND VIEW MONITOR SYSTEM]

DTC No.	CONSULT screen terms (Trouble diagnosis content)		DTC detection condition
	Diagnosis condition	When ignition switch is ON	
		Signal (terminal)	Camera power supply circuits
U1302 (Camera power voltage)	Threshold	Camera power supply voltage is 5.9 V-6.5 V when ON, or 0 V when OFF	
		Diagnosis delay time	—
POSSIBLE Camera po Around vie	CAUSE ower supply output circuit aw monitor control unit		
Camera pov	ver output is stopped		
DTC CONF	IRMATION PROCEDURE		
1.PERFOR	M DTC CONFIRMATION PR	OCEDURE	
	Г		

1.	Turn ignition switch ON.	
2.	Select "Self Diagnostic Result" mode of "AVM".	
3.	Check DTC.	
ls E	DTC U1302 detected?	
Y	ES >> Proceed to <u>AV-351, "Diagnosis Procedure"</u> .	
N N	 O-1 >> To check malfunction symptom before repair: <u>GI-43, "Intermittent Incident"</u>. O-2 >> Confirmation after repair: Inspection End. 	
Dia	agnosis Procedure	INFOID:000000013023661
1.	CHECK CAMERA DATA MONITOR	

Check CAMERA IMAGE SIG for each camera in "Data Monitor" of "AVM".

Is "OK" displayed for all cameras?

YES >> Refer to <u>GI-43</u>, "Intermittent Incident".

NO-1 (Front camera)>>GO TO 2.

NO-2 (Rear view camera)>>GO TO 4.

NO-3 (LH side camera)>>GO TO 6.

NO-4 (RH side camera)>>GO TO 8.

2.CHECK FRONT CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

1. Turn ignition switch OFF.

2. Disconnect around view monitor control unit connector B83 and front camera connector E169.

3. Check continuity between around view monitor control unit connector B83 and front camera connector E169.

Around view m	onitor control unit	Front camera Connector Terminal		Continuity	
Connector	Terminal			Continuity	
B83	6	F160	2	Ves	
	5	L103	1	103	

4. Check continuity between around view monitor control unit connector B83 and ground.

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< DTC/CIRCUIT DIAGNOSIS >

Around view monitor control unit		Ground	Continuity	
Connector	Terminal	Crodina	Continuity	
B83	6		No	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3.check around view monitor control unit voltage

1. Connect around view monitor control unit connector B83 and front camera connector E169.

2. Turn ignition switch ON.

3. Check voltage between around view monitor control unit connector B83 terminals.

Around view moni	tor control unit B83		Voltage (Approx.)
(+)	(-)	Condition	
Terminal	Terminal		
6	5	CAMERA switch is ON or shift position is R.	6.2 V

Is the inspection result normal?

YES >> Replace front camera. Refer to <u>AV-361, "Removal and Installation"</u>.

NO >> Replace around view monitor control unit. Refer to <u>AV-360</u>, "<u>Removal and Installation</u>".

4. CHECK REAR VIEW CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINU-

ITY

1. Turn ignition switch OFF.

2. Disconnect around view monitor control unit connector B83 and rear view camera connector C151.

 Check continuity between around view monitor control unit connector B83 and rear view camera connector C151.

Around view mo	onitor control unit	Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B83	18	C151	1	Vec
	17	0151	2	165

4. Check continuity between around view monitor control unit connector B83 and ground.

Around view monitor control unit		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
B83	18	_	No	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness or connectors.

5. CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector B83 and rear view camera connector C151.

2. Turn ignition switch ON.

3. Check voltage between around view monitor control unit connector B83 terminals.

Around view moni (+)	tor control unit B83 (–)	Condition	Voltage (Approx.)
Terminal	Terminal		
18	17	CAMERA switch is ON or shift position is R.	6.2 V

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

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Is the inspection result normal?

- YES >> Replace rear view camera. Refer to <u>AV-363, "Removal and Installation"</u>.
- NO >> Replace around view monitor control unit. Refer to <u>AV-360, "Removal and Installation"</u>.

6.CHECK LH SIDE CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect around view monitor control unit connector B83 and LH side camera connector D4.
- 3. Check continuity between around view monitor control unit connector B83 and LH side camera connector D4.

Around view mo	onitor control unit	LH side camera		Continuity	- -
Connector	Terminal	Connector	Terminal	Continuity	L
B83	14	7	Yaa	_	
	13	D4	19	res	E

4. Check continuity between around view monitor control unit connector B83 and ground.

Around view monitor control unit		Ground	Continuity	F	
Connector	Terminal	Ground	Continuity		
B83	14	—	No	G	

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness or connectors.

7. CHECK AROUND VIEW MONITOR CONTROL UNIT VOLTAGE

1. Connect around view monitor control unit connector B83 and LH side camera connector D4.

2. Turn ignition switch ON.

3. Check voltage between around view monitor control unit connector B83 terminals.

Around view monitor control unit B83				
(+)	(-)	Condition	Voltage (Approx.)	
Terminal	Terminal		(Κ
14	13	CAMERA switch is ON or shift position is R.	6.2 V	

Is the inspection result normal?

YES >> Replace LH side camera. Refer to <u>AV-362, "Removal and Installation"</u>.

NO >> Replace around view monitor control unit. Refer to <u>AV-360, "Removal and Installation"</u>.

8.CHECK RH SIDE CAMERA POWER SUPPLY AND POWER SUPPLY GROUND CIRCUIT CONTINUITY \mathbb{N}

1. Turn ignition switch OFF.

2. Disconnect around view monitor control unit connector B83 and RH side camera connector D107.

3. Check continuity between around view monitor control unit connector B83 and RH side camera connector AV D107.

Around view monitor control unit		RH side camera		Continuity	(
Connector	Terminal	Connector	Terminal	Continuity	
B83	10	D107	7	Vaa	F
	9	0107	19	Tes	1

4. Check continuity between around view monitor control unit connector B83 and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal	Ground	Continuity
B83	10	_	No

< DTC/CIRCUIT DIAGNOSIS >

[AROUND VIEW MONITOR SYSTEM]

Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair or replace harness or connectors.

 $9. {\sf CHECK} \text{ around view monitor control unit voltage}$

1. Connect around view monitor control unit connector B83 and RH side camera connector D107.

2. Turn ignition switch ON.

3. Check voltage between around view monitor control unit connector B83 terminals.

Around view monitor control unit B83			
(+)	(-)	Condition	Voltage (Approx.)
Terminal	Terminal		
10	9	CAMERA switch is ON or shift position is R.	6.2 V

Is the inspection result normal?

YES >> Replace LH side camera. Refer to <u>AV-362, "Removal and Installation"</u>.

NO >> Replace around view monitor control unit. Refer to AV-360, "Removal and Installation".

U1304 CAMERA IMAGE CALIBRATION

< DTC/CIRCUIT DIAGNOSIS >

U1304 CAMERA IMAGE CALIBRATION

DTC Description

DTC DETE	CTION LOGIC		
DTC No.	DTC No. CONSULT screen terms DTC detection condition		detection condition
		Diagnosis condition	When ignition switch is ON
114004	CAMERA IMAGE CALIB	Signal (terminal)	_
U1304	(Camera image calibration)	Threshold	_
		Diagnosis delay time	-
POSSIBLE Camera calil	CAUSE pration is incomplete		
FAIL-SAFE			
Unmatched i	$\operatorname{con}[X]$ display (red) is displayed	ed (applicable for unmatched	d camera only)
DTC CONF	IRMATION PROCEDURE		
1 .PERFOR	M DTC CONFIRMATION PRO	DCEDURE	
2. Select "S 3. Check D Is DTC U130 YES >> NO-1 >> NO-2 >> 0	Self Diagnostic Result" mode of TC. <u>04 detected?</u> Proceed to <u>AV-355. "Diagnosis</u> To check malfunction sympton Confirmation after repair: Insp	of "AVM". <u>s Procedure"</u> . n before repair: <u>GI-43, "Inter</u> ection End.	mittent Incident".
Diagnosis	Procedure		INFOID:000000013023663
1.PERFOR	M CALIBRATING CAMERA IN	MAGE	
Perform carr	nera calibration. Refer to <u>AV-3</u>	32, "CALIBRATING CAMER	A IMAGE (AROUND VIEW MONITOR)
: Description			
>> (GO TO 2.		
2.PERFOR	M DTC CONFIRMATION PRO	DCEDURE	
CONSULT 1. Turn ign	ition switch ON.		
 Erase D Select "S Check D 	Self Diagnostic Result" mode o TC.	of "AVM".	
Is DTC U130 YES >> NO >>	04 detected? Replace malfunctioning came Inspection End.	ra.	

INFOID:000000013023662

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< DTC/CIRCUIT DIAGNOSIS >

U1305 CONFIG UNFINISH

DTC Description

INFOID:000000013023664

[AROUND VIEW MONITOR SYSTEM]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
		Diagnosis condition	When ignition switch is ON
11205	CONFIG UNFINISH	Signal (terminal)	—
01305	(Configuration unfinish)	Threshold	—
		Diagnosis delay time	—

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

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "AVM".
- 3. Check DTC.

Is DTC U1305 detected?

- YES >> Proceed to AV-356, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013023665

1.PERFORM CONFIGURATION OF AROUND VIEW MONITOR CONTROL UNIT

Perform configuration of around view monitor control unit. Refer to AV-331, "Work Procedure".

>> GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

()CONSULT

- Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "AVM".
- 4. Check DTC.

Is DTC U1305 detected?

- YES >> Replace around view monitor control unit. Refer to <u>AV-360, "Removal and Installation"</u>.
- NO >> Inspection End.

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

.1.

Terminal No. Signal name 40 Ignition signal Are the fuses blown? Ignition signal YES >> Replace the blown fuse after repairing the affected circ NO >> GO TO 2. 2.CHECK POWER SUPPLY CIRCUIT 1. Turn ignition switch OFF. 2. Disconnect around view monitor control unit connector B83. 3. Check voltage between around view monitor control unit connector Implant Around view monitor control unit Ground Around view monitor control unit Ground B83 40 Sthe inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness or connectors. 3.CHECK GROUND CIRCUIT 1. Turn ignition switch OFF.	ector B83 and ground Condition Ignition switch: ON	Fuse No. 29 (5A) Voltage (Approx.) Battery voltage
40 Ignition signal Are the fuses blown? YES >> Replace the blown fuse after repairing the affected circ NO >> GO TO 2. 2.CHECK POWER SUPPLY CIRCUIT I. Turn ignition switch OFF. 2. Disconnect around view monitor control unit connector B83. 3. Check voltage between around view monitor control unit connector Interminal Around view monitor control unit Ground B83 40 Sthe inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness or connectors. 3.CHECK GROUND CIRCUIT 1. Turn ignition switch OFF.	ector B83 and ground Condition Ignition switch: ON	29 (5A) Voltage (Approx.) Battery voltage
YES >> Replace the blown fuse after repairing the affected circ NO >> GO TO 2. CHECK POWER SUPPLY CIRCUIT . Turn ignition switch OFF. . Disconnect around view monitor control unit connector B83. 6. Check voltage between around view monitor control unit connector Intervention Around view monitor control unit Ground Around view monitor control unit Ground B83 40 sthe inspection result normal? YES YES > GO TO 3. NO CHECK GROUND CIRCUIT . Turn ignition switch OFF.	ector B83 and ground Condition Ignition switch: ON	Voltage (Approx.) Battery voltage
Around view monitor control unit Ground Connector Terminal B83 40 s the inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness or connectors. CHECK GROUND CIRCUIT . Turn ignition switch OFF.	Condition Ignition switch: ON	Voltage (Approx.) Battery voltage
Connector Terminal B83 40 s the inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness or connectors. J.CHECK GROUND CIRCUIT . Turn ignition switch OFF.	Ignition switch: ON	Battery voltage
s the inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness or connectors. 3. CHECK GROUND CIRCUIT 1. Turn ignition switch OFF.		Dattery voltage
2. Check continuity between around view monitor control unit con	nector B83 and grou	nd.
Around view monitor control unit		
Connector Terminal G	Ground	Continuity
B83 39	_	Yes
YES >> Inspection End. NO >> Repair or replace harness or connectors.		

POWER SUPPLY AND GROUND CIRCUIT

[AROUND VIEW MONITOR SYSTEM]

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SYMPTOM DIAGNOSIS AROUND VIEW MONITOR SYSTEM

Symptom Table

INFOID:000000013023667

AROUND VIEW MONITOR SYSTEM

Symptom	Check	items	Probable malfunction location
Screen is not switched to camera image when CAMERA button is pressed and when shift position is shifted to the reverse position.	"AVM" is not displayed on the system selection screen of CONSULT.		Around view monitor control unit power supply circuit • BAT power supply circuit • Ignition power supply circuit
	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 signalReverse signal	Camera switch signal or re- verse signal is not normal.	CAN communication circuit
Screen is switched when press- ing camera button or shifting se- lector lever to the reverse position; however, all views are not displayed	Only superimposing is displayed (only images that AV con- trol unit plots are displayed).		Camera image signal circuit Refer to AV-342, "Diagnosis Proce- dure", AV-344, "Diagnosis Proce- dure", AV-346, "Diagnosis Procedure", AV-348, "Diagnosis Procedure".
not displayed.	Superimposing is not displayed.		AV control unit Refer to <u>AV-328, "Work Flow"</u> .
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 normally.		Reverse signal circuit.
 Front view screen is not displayed. Front of top view screen is not displayed. 	Check the following Data Monitor items using CON- SULT: • Front camera image signal	• Image signal: NG	Front camera power supply circuit and image signal circuit Refer to <u>AV-346, "Diagnosis Proce-</u> <u>dure"</u> .
 The rear view screen is not displayed. Rear of top view screen is not displayed. 	Check the following Data Monitor items using CON- SULT: • Rear camera image signal	• Image signal: NG	Rear camera power supply circuit and image signal circuit Refer to <u>AV-342</u> , " <u>Diagnosis Proce-</u> <u>dure</u> ".
 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- nal		Side camera LH power supply cir- cuit and image signal circuit Refer to <u>AV-348</u> , "Diagnosis Proce- <u>dure"</u> .
Right side of top view image is not displayed.	Check the following Data Monitor items using CON- SULT: • Side camera RH image signal	Image signal: NG	Side camera RH power supply cir- cuit and image signal circuit. Refer to <u>AV-344</u> , "Diagnosis Procedure".

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION AV CONTROL UNIT

Exploded View

INFOID:000000013268447

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- 1. AV control unit
- AV control unit bracket (RH) 4

Removal and Installation

INFOID:000000013268448

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REMOVAL

CAUTION:

Before replacing AV control unit, perform "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT" to save current vehicle specification. Refer to AV-110, "ADDITIONAL SERVICE WHEN REPLAC-AV **ING AV CONTROL UNIT : Description".**

- Disconnect battery or batteries. Refer to <u>PG-174, "Battery Disconnect"</u>.
- 2. Remove cluster lid C lower. Refer to IP-17, "CLUSTER LID C LOWER : Removal and Installation".
- Remove A/C switch assembly. Refer to <u>HAC-117, "Removal and Installation"</u>.
- Remove AV control unit bracket screws, then pull out AV control unit.
- Disconnect harness connectors from AV control unit and remove AV control unit. 5.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After replacing AV control unit, perform "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT" to configure and register AV control unit. Refer to AV-110, "ADDITIONAL SERVICE WHEN **REPLACING AV CONTROL UNIT : Description".**

AV-359

AROUND VIEW MONITOR CONTROL UNIT

< REMOVAL AND INSTALLATION >

[AROUND VIEW MONITOR SYSTEM]

INFOID:000000013023670

AROUND VIEW MONITOR CONTROL UNIT

Removal and Installation

REMOVAL

CAUTION:

Before replacing around view monitor control unit, perform "ADDITIONAL SERVICE WHEN REPLAC-ING AROUND VIEW MONITOR CONTROL UNIT" to save current vehicle specification. Refer to <u>AV-330</u>, "<u>Description</u>".

- 1. Remove front seat (LH). Refer to SE-100, "Removal and Installation Captain Seats".
- 2. Remove around view monitor control unit screws (A).
- 3. Disconnect harness connectors from around view monitor control unit (1) and remove around view monitor control unit.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Be sure to perform "After Replace ECU" of "Read / Write Configuration" or "Manual Configuration" when replacing around view monitor control unit. Refer to <u>AV-330, "Description"</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. Refer to <u>AV-332</u>, <u>"CALIBRATING CAMERA</u> <u>IMAGE (AROUND VIEW MONITOR) : Description</u>".
FRONT CAMERA

Removal and Installation

REMOVAL

- Remove front grille. Refer to EXT-24, "Removal and Installation". 1.
- 2. Remove screws (A) and remove front camera (1).



INSTALLATION

Installation is in the reverse order of removal. 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. Refer to AV-332, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".

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[AROUND VIEW MONITOR SYSTEM]

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SIDE CAMERA

Removal and Installation

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REMOVAL

- 1. Remove door mirror rear finisher. Refer to MIR-29. "Removal and Installation".
- 2. Remove screws (A).
- 3. Disconnect harness connector from side camera and remove side camera (1).



[AROUND VIEW MONITOR SYSTEM]

INSTALLATION

Installation is in the reverse order of removal.

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. Refer to <u>AV-332</u>, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".

REAR CAMERA

Removal and Installation

REMOVAL

- 1. Remove tailgate handle. Refer to DLK-178, "TAILGATE HANDLE : Removal and Installation".
- 2. Remove screws (A) from rear camera (1).
- 3. Disconnect harness connector from rear camera and remove rear camera.



INSTALLATION

Installation is in the reverse order of removal. 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. Refer to AV-332, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".

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< 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. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

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

Cautions in Removing Battery Terminal, and AV Control Unit

CAUTION:

Remove battery terminal or terminals 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.

Precaution for Trouble Diagnosis

M-CAN 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 or cables from the negative terminal or terminals before checking the circuit. Refer to <u>PG-174</u>, "Battery Disconnect".

Precaution for Harness Repair

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INFOID:000000013023894

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M-CAN COMMUNICATION SYSTEM

PRECAUTIONS

< PRECAUTION >

[REAR VIEW MONITOR SYSTEM]

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



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

Precaution for Work

INFOID:000000013023896

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

PREPARATION

Special Service Tools

INFOID:000000013023897

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

Tool number (TechMate No.) Tool name		Description	
 (J-46534) Trim Tool Set	AWJIA048322	Removing trim components	

Commercial Service Tools

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

< SYSTEM DESCRIPTION > SYSTEM DESCRIPTION **COMPONENT PARTS**

Component Parts Location



No.	Component	Function	M
1.	Rear view camera	Refer to AV-368, "Rear View Camera".	
2.	AV control unit	Refer to AV-367, "AV Control Unit".	A. (
3.	Back-up lamp relay	Supplies the reverse signal to the AV control unit.	AV
4.	A/T assembly (VK56VD)	Refer to TM-266, "A/T CONTROL SYSTEM : Transmission Range Switch".	
5.	Transmission range switch (Cum- mins 5.0L)	Refer to TM-17, "A/T CONTROL SYSTEM : Transmission Range Switch".	0
6.	Combination meter	Refer to MWI-12, "METER SYSTEM : Combination Meter".	

AV Control Unit

Revision: March 2016

Description

INFOID:000000013244471

COMPONENT PARTS

< SYSTEM DESCRIPTION >

- A 7-inch QVGA display, an AM/FM electronic tuner radio, CD drive, audio amplifier, Bluetooth[®] module, camera controller and navigation unit are integrated into the AV control unit.
- The 7-inch display is a high resolution monitor that includes touch panel functions.
- Music files stored in iPod^{®*}/USB memory can be played using the separate USB interface.
- *: iPod[®] is a registered trademark of Apple, Inc. All rights reserved.

Rear View Camera

- The rear view camera is installed next to the tailgate handle.
- Power for the camera is supplied from the AV control unit and the image at the rear of the vehicle is sent to the AV control unit.

Steering Angle Sensor

- Steering angle sensor is installed to the spiral cable.
- Steering angle sensor sends the steering signal necessary for predictive course line of the rear view monitor to the AV control unit via CAN communication.





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[REAR VIEW MONITOR SYSTEM]

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[REAR VIEW MONITOR SYSTEM]

AWNIA4290

< SYSTEM DESCRIPTION >

SYSTEM

System Description

INFOID:000000013023903 SYSTEM DIAGRAM Reverse signa BACK-UP LAMP RELAY Camera power supply REAR VIEW CAMERA Camera video signa AV CONTROL UNIT

DESCRIPTION

Operation Description

When the selector lever is shifted to the reverse position, the rear view monitor image is displayed.

CAN communication

• 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

STEERING ANGLE SENSOR

CAN communication

- The AV control unit receives the reverse signal input and supplies power to the rear view camera.
- The AV control unit displays the rear view camera image when the reverse signal is received.
- The AV control unit generates the warning message, vehicle width guide lines and the predicted course lines on the image from the rear view camera.

Vehicle Width Guide Lines and Predicted Course Lines Display Function of 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 on 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 AV 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.
- The predicted course lines are not displayed when the steering angle is in the neutral position.



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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[REAR VIEW MONITOR SYSTEM]

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Description

INFOID:000000013244472

The AV control unit on board diagnosis performs the functions listed in the table below:

	Mode	Item	Content
	Version	_	Version data of the AV control unit is displayed.
	Touch Display Calibration	_	Calibration of the touch panel display can be performed.
User Configuration	Screenshot to USB	_	A screenshot of the display can be saved to USB memory.
	Time Interval	_	Destination time interval can be select- ed.
Radio	FM monitor	_	Monitors the dynamic values of the cur-
	AM monitor		rent tuner
	SXM monitor		Version data is displayed.
System State	Running System Status	 SD card slot acces. Power Supply Speed Signal Direction Signal Illumination Signal GPS Antenna GPS tracking Satellites visible Satellites tracked Microphone Current Steer. wheel key Radio Antenna #No translation requi SXM Antenna USB Device iPod firmware ver. BT Status 	The current system status is displayed.
	Speaker Test 4kHz		This activates a sequence of test tone outputs to the audio circuits one after the
	Display-Test		This provides a test sequence where test displays (plain colored display: e.g. white, black, red, blue, green) are shown one after the other. The respective color is shown for an in- dicated period of time (parameter). After the display test, the design of the display previously available is stored. While the screen shows a plain colored display, a pixel malfunction may be detected.
ξ	Self Test	 SD Card Access BT Module Access GPS Antenna Radio Antenna SXM Antenna 	A system self test is executed and the results are stored into the error memory.

Perform CONSULT diagnosis if the AV control unit on board diagnosis does not start or the screen does not display anything.

On Board Diagnosis Function

INFOID:000000013244473

METHOD OF STARTING

1. Turn the ignition ON.

Revision: March 2016

DIAGNOSIS SYSTEM (AV CONTROL UNIT) [REAR VIEW MONITOR SYSTEM]

< SYSTEM DESCRIPTION >

- 2. Turn the audio system OFF.
- 3. While pressing the APPS button, turn the TUNE-SCROLL dial counterclockwise 5 or more clicks, then clockwise 5 or more clicks, then counterclockwise 5 or more clicks. Shifting from current screen to previous screen is performed by pressing BACK button.

4. selected.







CONSULT Function

CAUTION:

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

CONSULT FUNCTIONS

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

Direct Diagnostic Mode	Description	
Ecu Identification	The AV control unit part number is displayed.	
Self Diagnostic Result	The AV control unit self diagnostic results are displayed.	
Data Monitor	The AV control unit input/output data is displayed in real time.	
Configuration	 The vehicle specification can be read and saved. The vehicle specification can be written when replacing AV control unit. 	Μ
CAN Diag Support Mntr	 The result of transmit/receive diagnosis of AV communication is displayed. The result of transmit/receive diagnosis of CAN communication is displayed. 	۵\/

ECU IDENTIFICATION

The part number of AV control unit is displayed.

SELF DIAGNOSTIC RESULT

Refer to AV-93, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
VHCL SPD SIG [On/Off]	Indicates vehicle speed signal received from combination meter on CAN communication line.
ILLUM SIG [On/Off]	Indicates condition of illumination signal for the AV control unit.

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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[REAR VIEW MONITOR SYSTEM]

Description

Monitor Item [Unit]

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IGN SIG [On/Off]

Indicates condition of ignition signal.

REV SIG [On/Off] Indicates condition of reverse signal received from BCM.

CONFIGURATION

Refer to <u>AV-111, "CONFIGURATION (AV CONTROL UNIT) : Description"</u>.

CAN DIAG SUPPORT MNTR

Refer to LAN-48, "CAN Diagnostic Support Monitor".

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION AV CONTROL UNIT List of ECU Reference

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[REAR VIEW MONITOR SYSTEM]

ECU	Reference	_
AV control unit (Navigation without amplifier)	AV-90, "Reference Value"	_ (
Av control unit (Navigation without ampliner)	AV-93, "DTC Index"	_
A) (control unit (Newigotion with amplifier)	AV-183. "Reference Value"	
	AV-187, "DTC Index"	_

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WIRING DIAGRAM REAR VIEW MONITOR SYSTEM

Wiring Diagram

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 VB
 : WITH VK56VD

 V9
 : WITH Cummins 5.0L

 WA
 : WITH AUDIO AMPLIFIER

 WM
 : WITHOUT AUDIO AMPLIFIER



Compositor No	Connector No. L3 Connector Name WIBE TO WIBE	Connector Type TH24MW-NH	Connector Color WHITE			H.S.	13 14 15 16 17 18 19 20 21 22 23 24			Terminal Color of Signal Name	No. Wire Jugnar Name	1 L/R TO ENGINE CONTROL HARNESS	2 BR TO ENGINE CONTROL HARNESS	4 I V TO ENGINE CONTROL HADNESS	5 W TO ENGINE CONTROL HARNESS	6 B/R TO ENGINE CONTROL HARNESS	7 Y/R TO ENGINE CONTROL HARNESS	8 BR TO ENGINE CONTROL HARNESS	9 W/L TO ENGINE CONTROL HARNESS	10 L/Y TO ENGINE CONTROL HARNESS	11 SB TO ENGINE CONTROL HARNESS	12 L TO ENGINE CONTROL HARNESS	13 W/R TO ENGINE CONTROL HARNESS	15 B TO ENGINE CONTROL HARNESS 15 B TO ENGINE CONTROL HARNESS	16 B TO ENGINE CONTROL HARNESS	17 R TO ENGINE CONTROL HARNESS	18 B TO ENGINE CONTROL HARNESS	19 B/R TO ENGINE CONTROL HARNESS 20 GR TO ENGINE CONTROL HARNESS	21 V/R TO ENGINE CONTROL HARNESS	22 B TO ENGINE CONTROL HARNESS	23 B TO ENGINE CONTROL HARNESS													
1 R TO CHASSIS SUB HARNESS	2 L/W TO CHASSIS SUB HARNESS	3 L TO CHASSIS SUB HARNESS	6 TO CHASSIS SUB HARNESS	6 R/W TO CHASSIS SUB HARNESS		nector No. C150	nector Name WIRE TO WIRE	nector Type RH06MB-1V	Inector Color BLACK	41) 			456)		rminal Color of circle Color	No. Wire Signal Name	1 R TO CHASSIS HARNESS	2 L/W TO CHASSIS HARNESS	3 L TO CHASSIS HARNESS	4 SHIELD TO CHASSIS HARNESS	5 G TO CHASSIS HARNESS	6 R/W TO CHASSIS HARNESS	C161	mector Nome BEAR VIEW CAMERA	Inector Name RH04ER	illector type https://www.commercenter.com/			HS.	(1234)		-	rminal Color of Signal Name No. Wire	1 L REAR VIEW CAMERA POWER	2 L/W GROUND	3 R REAR VIEW CAMERA VIDEO +	4 R/W REAR VIEW CAMERA VIDEO -						
SHIELD TO ENGINE ROOM HARNESS	G/B TO ENGINE ROOM HARNESS	G/B TO ENGINE ROOM HARNESS W TO ENGINE POOM HARNESS	B TO ENGINE ROOM HARNESS	LG TO ENGINE ROOM HARNESS	G/W TO ENGINE ROOM HARNESS	R/LG TO ENGINE ROOM HARNESS CO	B TO ENGINE ROOM HARNESS CO	R TO ENGINE ROOM HARNESS CO	L/W TO ENGINE ROOM HARNESS CO	L TO ENGINE ROOM HARNESS	L TO ENGINE ROOM HARNESS	Y TO ENGINE ROOM HARNESS	GR TO ENGINE ROOM HARNESS	R TO ENGINE ROOM HARNESS	P TO ENGINE ROOM HARNESS	V TO ENGINE ROOM HARNESS Te	LG/B TO ENGINE ROOM HARNESS		C TO ENGINE POOM HAPNESS	BR TO ENGINE ROOM HARNESS	B TO ENGINE ROOM HARNESS	Y/R TO ENGINE ROOM HARNESS	V TO ENGINE ROOM HARNESS -	(WITH VK56VD) B/V TO FNGINF ROOM HABNESS -	(WITH CUMMINS 5.0L)	B/Y TO ENGINE ROOM HARNESS - CO (WITH VK56VD) CO	B TO ENGINE ROOM HARNESS - CO	(WITH CUMMINS 5.0L)	(WITH VK56VD)	V TO ENGINE ROOM HARNESS - WITH CUMMINS 5.0L)	V/W TO ENGINE ROOM HARNESS		0. C8 mmo WIDE TO WIDE	pe RH06FB-1V	olor BLACK			R		6 5 4			Color of	Wire Signal Name
22C \$	23C	24C 26C	260	27C	28C	300	31C	32C	33C	34C 35C	360	37C	38C	39C	40C	41C	42C	430	244	46.0	47C	48C	49C	49C		50C	50C	510		51C	52C		Connector No	Connector Tyl	Connector Co	f	d HI HI	ЗН	5				Terminal	No.
5	VIET TO WIEE	RK26FGY-RS20-X6	GRAY		4C 3C 2C 1C	10C 9C 8C 7C 6C		1200 130 130 110 120 130 140 130 170	30C 29C 28C 27C 26C 25C 24C 23C 22C	400 340 380 370 340 350 340 330 320		2 46C 45C 44C 43C 42C	51C 50C 49C 48C		of	e signal Name	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	V TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS - (WITH VK56VD)	TO ENGINE ROOM HARNESS - (MITH CUMMINS 5.0L)	TO ENGINE ROOM HARNESS -	(WITH VK56VD)	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)	TO ENGINE ROOM HARNESS - (WITH VK56VD)	TO ENGINE ROOM HARNESS -	(WITH CUMMINS 5.0L)	I U ENGINE FOUN FARNESS - (WITH VK56VD)	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)	I TO ENGINE ROOM HARNESS - (WITH VK56VD)	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	G TO ENGINE ROOM HARNESS

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REAR VIEW MONITOR SYSTEM CONNECTORS

REAR VIEW MONITOR SYSTEM CONNECTORS

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TO CHASSIS HARNESS - (WITH VK56VD)

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TO CHASSIS HARNESS -CUMMINS 5.0L)

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Connector (Color V	NHITE		
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H.S.			11	0
		1 2 3 4	110	0
		-	12(
			130	0
Tominol	Color of		140	0
No.	Wire	Signal Name	150	
-	-	TO ENGINE CONTROL HARNESS		
2	M	TO ENGINE CONTROL HARNESS		
е С	٩	TO ENGINE CONTROL HARNESS		
4	SB	TO ENGINE CONTROL HARNESS	200	
			210	
Connector	No.	E41	22(
Connector i	Name V	WIRE TO WIRE	23(0
Connector	Tvpe	RK26MGY-RS20-X6	240	0
Connector	Color	VAG	25(0
			260	0
F			270	0
	5	2C 3C 4C 5C	280	0
H.S.	6C 7	7C 8C 9C 10C 11C	590	0
	12C 13	C 14C 15C 16C 17C 18C 19C 20C 21C	590	0
	22C 230	cl24cl25cl26cl27cl28cl29cl30cl31cl	300	0
			310	0
	32C 330	C 34C 35C 36C 37C 38C 39C 40C 41C	32(0
			330	0
	42C 4	3C 44C 45C 46C 47C	340	
	48C	49C 50C 51C 52C	350	0
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SHIELD

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2	30C	31C	32C	33C	34C	35C	36C	37C	38C	39C	40C	017	2	420	430	44C	45C	46C	47C	48C	49C	49C
							2	\														
11401300 100 110 100 100 200 200	240250260 270280290300310		34C 35C 36C 37C 38C 39C 40C 41C		3C 44C 45C 46C 47C	49C 50C 51C 52C			Signal Name		I U CHASSIS HAHNESS	TO CHASSIS HARNESS	TO CHASSIS HADNESS	CURASSIS HAHNESS - (WITH CUMMINS 5.0L)	TO CHASSIS HARNESS - (WITH	VK56VD)	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)	TO CHASSIS HARNESS - (WITH				
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40C	110	410	420	430	440	450	46C	47C	48C	49C	49C
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TO CHASSIS HARNESS -VK56VD)

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TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)	TO CHASSIS HARNESS - (WITH VK56VD)	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)	TO CHASSIS HARNESS - (WITH VK56VD)	TO CHASSIS HARNESS - (WITHOUT FFV)	TO CHASSIS HARNESS - (WITH FFV)	TO CHASSIS HARNESS
۵	ВΛ	>	в	в	-	MV
50C	50C	51C	51C	52C	52C	52C

TO CHASSIS HARNESS - (WITH VK56VD)

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TO CHASSIS HARNESS -CUMMINS 5.0L)

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TO CHASSIS HARNESS - (WITH VK56VD)

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< WIRING DIAGRAM >

TO CHASSIS HARNESS - (WITH BULB CHECK)

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Revision:	March 2016	

REAR VIEW MONITOR SYSTEM CONNECTORS

< WIRING DIAGRAM >

TO ENGINE CONTROL NO. 2 HARNESS

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TO ENGINE CONTROL NO. 2 HARNESS

ctor No. E119	ctor Name IPDM POWE	ctor Type NS16	ctor Color WHIT		nal Color of
	E/R (INTELLIGENT ER DISTRIBUTION JLE ENGINE ROOM)	-W-CS		7 6 7 6 7 15 16 1 5 4 3 15 14 13 12 14 10	Ciccol Nome

Signal Name	-	NP SW	H/LAMP HI RH	H/LAMP HI LH	H/LAMP LO LH	H/LAMP LO RH	FR FOG/L LH	1	ETC VB - (WITH VK56VD)	ETC VB - (WITH CUMMINS 5.0L)	FR FOG/L RH	A/T ECU IGN	REVERSE LAMP IGN	ABS ECU IGN	ETC RLY CONT - (WITH VK56VD)	ETC RLY CONT - (WITH CUMMINS 5.0L)	IGN COIL - (WITH VK56VD)	IGN COIL - (WITH CUMMINS 5.0L)	1
Color of Wire		B/R	۲W	σ	-	RY	G/W		0	Р	W/R	Y/R	IJ	GR	V/R	U	M	L/W	
Terminal No.	ę	4	5	9	7	8	6	10	Ħ	11	12	13	14	15	16	16	17	17	18

or No.	E119	
or Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION	
or Type	MODULE ENGINE ROOM) NS16FW-CS	
or Color	WHITE	
	9 8 7 6 5 4 3 18 17 16 15 14 13 12 11 10	

TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE HOOM HAHNESS	TO ENGINE ROOM HABNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS		F33	WIRE TO WIRE	NS04FW-CS	WHITE				4 3 2 1			f Cinnol Nomo		TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS																		
10 L/Y	- BB	12 L	14 A	15 B	16 B	17 R	18 B	19 B/R	20 64	21 V/H	23 SHIELD	24 P		Connector No.	Connector Name	Connector Type	Connector Color		d Hill Have	H.S.				Terminal Color o	No. Wire		2 F	4 SB																		
TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HADNESS	TO MAIN HABNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HADNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HADNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS								9 8 7 6 5 4 3 2 1	21 20 19 18 17 16 15 14 13			Signal Name	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS					
L	SHIELD	> 0	n B/B	3 0	N	1	ш	(× -		W/B	B/R	W/B	۹.	(5 0	5 M	BB	IJ	σ ;	> 0	W/B	BR	GR/W		VO. F14		Color WH				12 11 10	24 23 22		Joine of	Wire	К	BR	> -	3 >	B/B	Y/R	BR	W/L		
72G	73G	760	266	776	78G	79G	80G	81G	82G	839	85G	86G	87G	88G	568	909	506	93G	94G	95G	96G	9/6	966	100G		Connector		Connector (f	1444hh	H.S.				Terminel	No.	-	2	en 4	4 v.	9 9	2	ω	o		
TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HAHNESS TO MAIN HADNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS - (WITH	CUMMINS 5.UL)	I U MAIN HAHNESS - (WITH VK56VD)	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HADNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	CUMMINS 5.0L)	TO MAIN HARNESS - (WITH VK56VD)	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS			
G/B	Ma 4	x 9	2 B	G/B	BRY	۵.		r	٩	٨/L	GR GR	un en	R/W	BR	BR	'	R/G	0		IJ	RY	IJ	, LG	r >	,	BR	œ –	N N	N	ۍ ت	× ×	- Bg	BG	BG	8	× α	ML	W/R	BG	BG d	• >		RW			
24G	25G	266	286	296	30G	31G	U.F	5	32G	33G	34G	966	37G	38G	39G	40G	41G	42G	5	43G	44G	45G	46G	4/G	49G	50G	51G	53G	54G	55G	56G 57G	58G	59G	60G	61G	626	64G	65G	66G	679	500	70G	71G			
										9116	1310		351G		971G												NITH	VITH																		
22	RE TO WIRE	30MW-CS16-TM4	ITE				60 10 00 10	³⁰⁰ 46 36 26 16 106 96 86 76 66	control to the second	3 19G 18G 17G 16G 15G 15G 14G 13G 12C 3 29G 28G 27G 26G 25G 24G 23G 22C	3 396 386 376 366 356 346 336 326	3496486476486456446436420	3 596 586 576 586 556 546 536 520	369G68G67G66G65G64G63G62(379G78G77G76G76G75G74G73G72C		95G 94G 93G 92G 91G	1006 996 986 976 966				Signal Name	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HARNESS	TO MAIN HARNESS - (V	VK56VD) TO MAIN HARNESS - (V	CUMMINS 5.0L)	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS			
	N N	ŤĦ	or WH						2000010	216.20	416 400	201	61G 601	2	81G800	\$						Color of Wire	σ	B/R	W/B	BB	٩	RW		> 0		: ^	R/G	W/B	8	g/A	σ	GN	GY	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	BV	G/R	Υ/R			
lo. E1	ame	l g	; 7																		1.1	-											1	. 1		- 1	1									

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2016 Titan NAM

< WIRING DIAGRAM >

[REAR VIEW MONITOR SYSTEM]

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52	212	RANSMISSION RANGE	IS10FR		ILAUN				[5 4 3 2 1]	10 0 0				Signal Name				RANGE SIGNAL PA		BATTERY	REVERSE RELAY CONT	NP SW	IGNITION RELAY					'H12FW-NH	VHITE				46 45 44 43 42 41	52 51 50 49 48 47			Signal Name		IGN	BAT	FUEL SENSOR GND	ILL CONT OUTPUT	CAN-L	CAN-H	G1	FUEL SENSOR	1	
tor No	CIOL NO.	ctor Name T	-tor Tyne						3					al Color of	WIre			e e	5	1/0	~	B/B	BR/Y	_	N OT			stor Type T	tor Color W				3				nal Color of	Wire	×	œ	٨X	GR	٩	_	B	BR/Y	-	
ouro J	Collie	Conne	Conne		Conne	E		H						Termi			4 9	0 4	+ u	n e	2	. 60	6		Conc.			Conne	Conne			H					Termi	NO NO	41	42	43	44	45	46	47	48	49	
TO ENGINE ROOM HARNESS		TO ENGINE ROOM HARNESS	TO ENGINE FOOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE FOOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS																																		
GR	٩	BR/W	GV	N	RW	GN	V/W	ГG	RY	BRV	ď	- >		65	L/LG	ß	M/L	W/B	В∕Ү	>	W/R	9	m	m	>	98 .	H/I	87	3	WA	RN	G/B	> :	≻ a⁄a	87	5	0	M/L		BB	SHIELD		BR					
7F	8F	Ъ	10F	Ħ	12F	13F	14F	15F	16F	17F	18F	P P	100	21F	22F	23F	24F	25F	26F	27F	28F	29F	30F	31F	32F	33F	341	36F	37F	38F	39F	40F	41F	42F 42F	44F	45F	46F	47F	48F	49F	50F	51F	52F					
ar:	-40	4/T ASSEMBLY (WITH	3K10FG	DEEN	GREEN		~		5 4 3 2 1	10 9 8 7 6				Signal Name	NOW	NDIA		K-I INF	GND	NIGN	REV LAMP RELAY	CAN-L	STARTER RELAY	UND	Chips	500	VIRE TO WIRE	TROOMEY-BSON-YG		GRAT		2F 3F 4F 5F	7F 8F 9F 10F 11F	F 14F 15F 16F 17F 18F 19F 20F 21F		F 24F 25F 26F 27F 28F 29F 30F 31F	F 34F 35F 36F 37F 38F 39F 40F 41F		3F 44F 45F 46F 47F	49F 50F 51F 52F]		Signal Name		TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	
or No	OF NO.	or Name	or Two	or Color										I Color of	Alle		-	1 8	5 a	- RX			B/B	ď	2	or No	or Name					ŧ	6F /	12F 13		22F 23	32F 33f		42F 4.	48F]		I Color of	MIG	Y/R	8	BY	
Connoct	Connect	Connect	Connecto	Connect	Connect	E		S H						Termina	.0.	- •	4 9		+ u	, g	2	. 00	6	9	2	Connects	Connecto	Connects	Connocto	Connect	<u>P</u>	N H C	2										Termina	N	۴	2F	њ !	Ļ

REAR VIEW MONITOR SYSTEM CONNECTORS

143 V CONTROL UNIT (WITH	UDIO AMPLIFIER)	H18FW-CS2	/HILE				2 3 4 5 6 7 8 9	0 11 12 13 14 15 16 17 18 20				Signal Name	AMP ON	FB SPIH+	FR SP LH-	RR SP LH+	RR SP LH-	1	ACC	CAN-H	(+) ITT (+)	PRE AMP SHIELD	FR SP RH+	FR SP RH-	RR SP RH+	RR SP RH-		- CAN-I	SPEED SIG	BAT	GND																
Vo. Vame A	A :	ype .	Color			L		19 10			Color of	Wire	N/S	-		-	BB		œ	_	_	SHIELD	8	7	B/W	•	'	· •		> >		-															
Connector 1 Connector 1		Connector	Connector			H.S.					Terminal	No.	-			4	5	9	7	œ	6	10	11	12	13	14	<u>e</u> 4	17	- 6	19	50																
TO ENGINE ROOM HARNESS TO ENGINE ROOM HARNESS	TO ENGINE HOOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS		39	USE BLOCK (J/B)	SOBFW-CS	HITE				34 27 24 14	80 70 60 50 40			:	Signal Name	ı	IGNITION	1		BATTERY	IGNITION	-														
	: _	_	×	H/H		ۍ ا	۵.	σ	٩	٨/W	BR	8	σ	œ	щ	W/B	œ	GR/W		No.	Vame FI	N	Color W								Color of	Wire	•	OL			RW	R/W	,								
81G 82G	83G	84G	85G	86G	87G	88G	89G	906	91G	92G	93G	94G	95G	96G	97G	98G	966	100G		Connector 1	Connector 1	Connector 7	Connector (14HAN	S H	þ				Terminal	No.	ō	20	g ç	ð č	09	70	80								
TO ENGINE ROOM HARNESS TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS		TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS				TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS	TO ENGINE ROOM HARNESS				
G/B G/B	BRV	æ	æ	20	5	G/R	SB	RW	В	BR	ı	R/G	0	σ	RY	σ	ГG	œ	>	•	Han I	œ .		* *	: o	8	>	BG	BG	BG	0	×		W/R	BG	0	B	>	-	M/H	SHIFLD	N	: ~		BG	٩	
28G 29G	30G	31G	32G	336	34G	35G	36G	37G	38G	39G	40G	41G	42G	43G	44G	45G	46G	47G	48G	49G	50G	51G	529	54G	55G	56G	57G	58G	59G	60G	61G	62G	63G	65G	66G	67G	68G	69G	70G	202	736	746	756	76G	77G	78G	Cor
. M31 me WIRE TO WIRE	pe TH80FW-CS16-TM4	slor WHITE				16 26 36 46 56	66 76 86 96 106		116 126 136 146 156 166 176 186 196 206 216	nnchazhazha/shazhazhazhazhazhazz	316 326 330 346 350 366 376 380 396 406 416	42G43G44G45G46G47G48G49G50G	510520530540550560570530590600610	620650640650660670680690700	716/26/36/746/56/766/76/786/796/800816	82G83G84G85G86G87G88G89G905		910 926 936 946 956					color of Signal Name		G TO ENGINE POOM TARNESS	W TO ENGINE ROOM HARNESS	BR/W TO ENGINE ROOM HARNESS	BR TO ENGINE ROOM HARNESS	R/W TO ENGINE ROOM HARNESS	Y TO ENGINE ROOM HARNESS	G TO ENGINE ROOM HARNESS	R TO ENGINE ROOM HARNESS	W TO ENGINE ROOM HARNESS	W/R TO ENGINE ROOM HARNESS	BR TO ENGINE ROOM HARNESS	Y/B TO ENGINE ROOM HARNESS	G/W TO ENGINE ROOM HARNESS	G TO ENGINE ROOM HARNESS	O TO ENGINE ROOM HARNESS	G/Y TO ENGINE ROOM HARNESS	Y/V TO ENGINE ROOM HARNESS			V/D TO ENGINE POOM HARNESS	G/B TO ENGINE ROOM HARNESS	R/W TO FNGINE ROOM HARNESS	
	Γ _d	S.																				-	റ് പ	+	+	-	-	-					_	-	+	\vdash		_	-	+	+	-	+	+	+	-	

REAR VIEW MONITOR SYSTEM

Revision: March 2016

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REAR VIEW MONITOR SYSTEM CONNECTORS

< WIRING DIAGRAM >

AANIA4957GB

REV LAMP RELAY IGNITION

REVERSE BATTERY REVERSE

G/N G/N

Signal Name

Color of Wire

Terminal No.

(-) ILL (-)

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42 43 GROUND

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[REAR VIEW MONITOR SYSTEM]

(-) |||

Connector No.	M192
Connector Name	JOINT CONNECTOR-M02
Connector Type	NH24FW-J
Connector Color	WHITE
	4 3 2 1
Ю.П	8 7 6 5
	12 11 10 9
	16 15 14 13
	20 19 18 17
	24 23 22 21

	Signal Name	GND	I	SHIELD	SHIELD	SHIELD	GND	GND	GND	GND															
1	Color of Wire	8	в	8	0	8	в	В	в	8	в	8	8	Y/R	8	В	8	-	SHIELD	SHIELD	SHIELD	В	B	в	8
	Terminal No.	-	2	3	4	5	9	7	8	6	10	ŧ	12	13	14	15	16	17	18	19	20	21	22	23	24

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AV

BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000013023910

OVERALL SEQUENCE



• Reference 1: Refer to AV-371, "CONSULT Function".

• Reference 2: Refer to AV-389, "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 a malfunction?

YES >> GO TO 2.

NO >> Inspection End.

2. DIAGNOSIS WITH CONSULT

1. Connect CONSULT and perform a self-diagnosis for "MULTI AV". Refer to AV-371, "CONSULT Function".

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >	
	[
Skip to step 4 of the diagnosis procedure if "MULTI AV" is not dis	splayed.
2. When DTC is detected, follow the instructions below:	
- Record DTC and Freeze Frame Data (FFD).	
NO >> GO TO 4.	
3 .TROUBLE DIAGNOSIS FOR DTC	
1. Check the DTC indicated in the "Self Diagnostic Result".	
2. Perform the relevant diagnosis referring to the DTC list.	
>> GO TO 5.	
4. TROUBLE DIAGNOSIS FOR SYMPTOMS	
Perform the relevant diagnosis referring to the diagnosis chart by	v symptom. Refer to AV-389, "Symptom
Table".	
1. Repair or replace the identified malfunctioning parts.	
NOTE:	
Erase the stored self-diagnosis results after repairing or replac	ing the relevant components if any DTC
has been indicated in the "Self Diagnostic Result".	
Does the symptom occur?	
$VES \implies GO TO 1$	
NO >> Inspection End.	

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REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REAR VIEW MONITOR SYSTEM]

DTC/CIRCUIT DIAGNOSIS REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:000000013245245

Regarding Wiring Diagram information, refer to AV-374. "Wiring Diagram".

1.CHECK REVERSE INPUT SIGNAL

- 1. Turn ignition switch ON.
- 2. Shift the selector lever to R (reverse).
- 3. Check voltage between AV control unit connector M45 (with audio amplifier) or M98 (without audio amplifier) and ground.

AV contro	bl unit	Ground		N/ 11
(+)		Condition		Voltage (Approx.)
Connector	Terminal	()		(++)
M45 (with audio amplifier)	28		Selector lever is in "D"	Battery Voltage
M98 (without audio amplifier)	20			Dattery voltage

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2. CHECK CAMERA POWER SUPPLY CIRCUIT CONTINUITY

1. Turn ignition switch OFF.

- 2. Disconnect AV control unit connector M45 (with audio amplifier) or M98 (without audio amplifier) and rear view camera connector.
- 3. Check continuity between AV control unit connector M45 (with audio amplifier) or M98 (without audio amplifier) and rear view camera connector C151.

AV control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M45 (with audio amplifier)	34	C151	1	Vec
M98 (without audio amplifier)	34	0101	I	165

4. Check continuity between AV control unit connector M45 (with audio amplifier) or M98 (without audio amplifier) and ground.

AV control unit			Continuity
Connector	Terminal	Ground	Continuity
M45 (with audio amplifier)	31		No
M98 (without audio amplifier)	54		NU

Is inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

$\mathbf{3}$. CHECK CAMERA POWER SUPPLY VOLTAGE

1. Connect AV control unit connector M45 (with audio amplifier) or M98 (without audio amplifier) and rear view camera connector.

2. Turn ignition switch ON.

3. Shift the selector lever to R (reverse).

REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT GNOSIS > [REAR VIEW MONITOR SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

4. Check voltage between AV control unit connector M45 (with audio amplifier) or M98 (without audio amplifier) nd ground.

AV contro	l unit	Ground		
(+)			Condition	Voltage
Connector	Terminal			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
M45 (with audio amplifier)	34	- (-)	Selector lever is in "D"	601/
M98 (without audio amplifier)	54		Selector level is in R.	0.0 V
 sinspection result norma YES >> GO TO 4. NO >> Replace AV concerns and the second second	12 ontrol unit. Refer to A GE SIGNAL CIRCUI FF. I unit connector M45 or. ween AV control unit w camera connector	AV-390, "Removal an T CONTINUITY (with audio amplifien t connector M45 (wi C151.	n <mark>d Installation"</mark> . r) or M98 (without audio a ith audio amplifier) or M	amplifier) and rea 98 (without audio
COMP + AV contro	lunit	Reary	view camera	
COMP + AV contro Connector	l unit Terminal	Rear v	view camera	Continuity
COMP + AV contro Connector M45 (with audio amplifier)	l unit Terminal	Rear v Connector	view camera	Continuity
COMP + AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier)	l unit Terminal 36	Rear Connector C151	view camera Terminal 3	Continuity Yes
COMP + AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier) COMP –	l unit Terminal 36	Rear V Connector C151	view camera Terminal 3	Continuity Yes
COMP + AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier) COMP – AV contro	l unit Terminal 36	Rear v Connector C151 Rear v	view camera	Continuity Yes
COMP + AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier) COMP – AV contro Connector	l unit Terminal 36 I unit Terminal	Rear v Connector C151 Rear v Connector	view camera Terminal 3 view camera Terminal	Continuity Yes Continuity
COMP + AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier) COMP – AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier)	l unit Terminal 36 I unit Terminal 35	Rear v Connector C151 Rear v Connector C151	view camera Terminal 3 view camera View camera Terminal 4	Continuity Yes Continuity Yes
COMP + AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier) COMP – AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier) . Check continuity bet amplifier) and ground	l unit Terminal 36 I unit Terminal 35 ween AV control unit	Rear V Connector C151 Rear V Connector C151 t connector M45 (with	view camera Terminal 3 view camera Terminal 4 ith audio amplifier) or M	Continuity Yes Continuity Yes 98 (without audio
COMP + AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier) COMP – AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier) . Check continuity bet amplifier) and ground	I unit Terminal 36 I unit Terminal 35 ween AV control unit	Rear v Connector C151 Rear v Connector C151 t connector M45 (with	view camera	Continuity Yes Continuity Yes 98 (without audio
COMP + AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier) COMP – AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier) M98 (without audio amplifier) Check continuity bett amplifier) and ground AV c	I unit Terminal 36 I unit Terminal 35 ween AV control unit ontrol unit Terminal	Connector C151 Rear V Connector C151 t connector M45 (with the connector C151	view camera	Continuity Yes Continuity Yes 98 (without audio
COMP + AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier) COMP – AV contro Connector M45 (with audio amplifier) QOMP – AV contro Connector M45 (with audio amplifier) M98 (without audio amplifier) M98 (without audio amplifier) AVs (with audio amplifier) AV contro AV contro AV contro M45 (with audio amplifier)	I unit Terminal 36 I unit Terminal 35 Ween AV control unit ontrol unit Terminal 35	Connector C151 Rear v Connector C151 t connector M45 (with	view camera	Continuity Yes Continuity Yes 98 (without audio Continuity

YES >> GO TO 5.

NO >> Repair or replace harness or connectors.

5. CHECK CAMERA GROUND CIRCUIT CONTINUITY

Check continuity between AV control unit connector M45 (with audio amplifier) or M98 (without audio amplifier) and rear view camera connector C151.

AV contro	ol unit	Rear view	w camera	Continuity	- F
Connector	Terminal	Connector	Terminal	Continuity	
M45 (with audio amplifier)	22	C151	0	Voc	-
M98 (without audio amplifier)		0151	Z	Tes	_

Is inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness or connectors.

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REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

6.CHECK CAMERA IMAGE SIGNAL

- 1. Connect AV control unit connector M45 (with audio amplifier) or M98 (without audio amplifier) and rear view camera connector.
- 2. Turn ignition switch ON.
- 3. Shift the selector lever to R (reverse).
- 4. Check signal between AV control unit connector M45 (with audio amplifier) or M98 (without audio amplifier) and ground.

AV control unit connector M45 (v out audio	vith audio amplifier) or M98 (with- amplifier)	0	
(+)	(-)	Condition	Reference value
Terminal	Terminal		
36	35	Camera image displayed.	(V) 0.4 0 −0.4 • 40µs skib2251J

Is inspection result normal?

- YES >> Replace AV control unit. Refer to <u>AV-390, "Removal and Installation"</u>.
- NO >> Replace rear view camera. Refer to <u>AV-391, "Removal and Installation"</u>.

SYMPTOM DIAGNOSIS REAR VIEW MONITOR SYSTEM

Symptom Table

INFOID:000000013023912

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REAR VIEW MONITOR

Symptoms	Check items	Probable malfunction location
Rear view camera is inoperative.	Reverse signal circuit malfunction.	Reverse signal circuit malfunction between back-up lamp relay and AV control unit. Refer to <u>AV-373</u> . "List of ECU Reference".
	Camera image signal circuit malfunction.	Camera image signal circuit malfunction between rear view camera and AV control unit. Refer to <u>AV-386, "Diagnosis Procedure"</u> .
	Rear view camera malfunction.	Replace rear view camera. Refer to <u>AV-391. "Removal and Installa-</u> tion".

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< REMOVAL AND INSTALLATION > **REMOVAL AND INSTALLATION** AV CONTROL UNIT

Exploded View

INFOID:000000013023914



- 1. AV control unit
- 4. AV control unit bracket (RH)

Removal and Installation

INFOID:000000013023915

REMOVAL

CAUTION:

Before replacing AV control unit, perform "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT" to save current vehicle specification. Refer to <u>AV-211, "ADDITIONAL SERVICE WHEN REPLAC-</u> **ING AV CONTROL UNIT : Description".**

- Disconnect battery or batteries. Refer to <u>PG-174, "Battery Disconnect"</u>.
- 2. Remove cluster lid C lower. Refer to IP-17, "CLUSTER LID C LOWER : Removal and Installation".
- Remove A/C switch assembly. Refer to <u>HAC-117, "Removal and Installation"</u>.
- Remove AV control unit bracket screws, then pull out AV control unit.
- Disconnect harness connectors from AV control unit and remove AV control unit. 5.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After replacing AV control unit, perform "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT" to configure and register AV control unit. Refer to AV-211, "ADDITIONAL SERVICE WHEN **REPLACING AV CONTROL UNIT : Description".**

AV-390

REAR VIEW CAMERA

Removal and Installation

REMOVAL

- 1. Remove tailgate handle. Refer to DLK-178, "TAILGATE HANDLE : Removal and Installation".
- 2. Remove screws (A) from rear camera (1).
- 3. Disconnect harness connector from rear camera (1) and remove rear camera.



INSTALLATION Installation is in the reverse order of removal.

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< 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. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

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

Cautions in Removing Battery Terminal and AV Control Unit

CAUTION:

Remove battery terminal or terminals, display control unit, 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 display control unit and the AV control unit continue operating for approximately 30 seconds.

Therefore, data corruption may occur if battery voltage is cut off within 30 seconds.

Precaution for Trouble Diagnosis

INFOID:000000013023995

INFOID:000000013023996

INFOID:000000013268450

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 or cables from the negative terminal or terminals before checking the circuit. Refer to <u>PG-174</u>, "<u>Battery Disconnect</u>".

Precaution for Harness Repair

AV COMMUNICATION SYSTEM

Revision: March 2016

PRECAUTIONS

< PRECAUTION >

[TELEMATICS SYSTEM]

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



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

Precaution for Work

INFOID:000000013023997

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- · Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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< PREPARATION > PREPARATION

PREPARATION

Special Service Tool

INFOID:000000013023998

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

Tool number (TechMate No.) Tool name		Description
 (J-46534) Trim Tool Set	AWJIA048322	Removing trim components

Commercial Service Tools

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

COMPONENT PARTS

[TELEMATICS SYSTEM]

INFOID:000000013024000

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< SYSTEM DESCRIPTION > SYSTEM DESCRIPTION **COMPONENT PARTS**

Component Parts Location



No.	Component	Function	M
1.	Microphone	Refer to AV-397, "Microphone".	
2.	Telematics switch	Refer to AV-397, "Telematics Switch".	
3.	TEL antenna	Refer to AV-396, "Telematics Antenna".	AV
4.	TCU	Refer to <u>AV-396, "TCU"</u> .	
5.	AV control unit	Refer to AV-395, "AV Control Unit".	0

AV Control Unit

Description

COMPONENT PARTS

< SYSTEM DESCRIPTION >

- A 7-inch WVGA display, an AM/FM electronic tuner radio, CD drive and navigation unit are integrated into the AV control unit.
- AV control unit is connected to TCU with the USB harness, and signals necessary for Telematics function and NISSANCON-NECTSM function are sent and received.

TCU

- Telematics Communication Unit (TCU) is installed on the steering member.
- A radio communication terminal and SIM card are built into the unit and data is sent and received in SMS^{*}, DTMF tone signal with the NISSANCONNECTSM center through the TEL antenna.
 NOTE:

*: SMS stands for Short Message Service. It is also referred to as Text Messaging, Short Mail, etc. is the service that performs text based message communication.

- It is connected to the AV control unit with the USB harness for sound signal input/output and USB communication.
- It is connected to the airbag diagnosis sensor unit via CAN communication. TCU performs an emergency report when the air bag is inflated.
- VIN information necessary for the Telematics service is memorized.
- Audio signals received during SOS/Operator call are transmitted from TCU to each speaker via the AV control unit.
- During the communication with NISSANCONNECTSM center, TCU transmits a TEL ON signal to the AV control unit to prohibit the use of Bluetooth[®] hands-free phone.

Telematics Antenna

- The telematics antenna consists of TEL antenna and GPS antenna.
- It is installed in the instrument panel. **NOTE:**

The placement of an object on the instrument panel may cause desensitization in the receiver sensitivity.





INFOID:000000013024002

JSNIA7225Z


COMPONENT PARTS

< SYSTEM DESCRIPTION >

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



[TELEMATICS SYSTEM]

INFOID:000000013024004

INFOID:000000013024005

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Microphone

- · Microphone is installed on the map lamp assembly.
- The microphone is used for the operation of the NISSANCON-NECTSM, hands-free phone system, voice recognition function.
- The power is supplied from the TCU to the microphone, transmitting sound signals to the TCU during operation of the NISSAN-CONNECTSM system, hands-free phone communication, and voice recognition.



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< SYSTEM DESCRIPTION > SYSTEM

TELEMATICS SYSTEM

TELEMATICS SYSTEM : System Description

INFOID:000000013024006

SYSTEM DIAGRAM



DESCRIPTION

- The Telematics system is a system for providing information by connecting the vehicle and the user to the NISSANCONNECTSM center.
- Telematics Communication Unit (TCU) equipped with a radio communication terminal communicates with the information center (NISSANCONNECTSM center) via radio waves for receiving NISSANCONNECTSM services.
- With the equipment of the radio communication terminal, TCU communicates with NISSANCONNECTSM center by Packet communication^{*1} and SMS^{*2} via TEL antenna. **NOTE:**
 - *1: Packet communication means a communication method that data is broken down into smaller chunks for communication. The split data is called a packet and improves the efficiency of the communication circuit.
 - *2: SMS stands for Short Message Service, also known as text messaging or short mail, and provides textbased message communication services.
- While communicating with the operator, data (e.g. transmission of own vehicle location) is transmitted to the NISSANCONNECTSM Service Center by using DTMF tone signals and SMS via the radio communication module included in TCU.
- Audio signals transmitted and received while communicating with the operator are input by microphone connected to TCU.
- Audio signals are output from TCU via the audio data circuit connected to the AV control unit.

TELEMATICS SYSTEM : Fail-safe

INFOID:000000013252818

If a malfunction occurs in the telematics system, TCU performs fail-safe activation according to the detected malfunction.

SYSTEM

< SYSTEM DESCRIPTION >

Detection item	Telematics system operation in fail-safe mode	DTC	А
Air-bag connection	 Some telematics systems do not function. Inform a NISSANCONNECTSM center about abnormality. 	U1A10	
CAN communication	 Telematics system does not function. Inform a NISSANCONNECTSM center about abnormality. 	U1000	В
TEL antenna	 Telematics switch LED indicator OFF. (LED indicator turns ON 10 times when the SOS call switch is pressed.) When operating the telematics system, cannot be connected to the NISSANCON-NECTSM center. 	U1A06	С
GPS antenna	 Telematics system cannot send correct positional information. Inform a NISSANCONNECTSM center about abnormality. 	U1A09 U1A0A	D
	Telematics system function stops.	U1010	
тси	 Telematics system function stops. When operating the telematics system, cannot be connected to the NISSANCON-NECTSM center. 	U1A11	E
Telematics switch (SOS call switch)	Telematics system does not function. (Only SOS call inoperative.)Telematics switch LED indicator OFF.	U1A0E	F
Microphone	 Transmit vehicle position to the NISSANCONNECTSM center. Inform a NISSANCONNECTSM center about abnormality. 	U1A0B U1A0C	G

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DIAGNOSIS SYSTEM (TCU)

CONSULT Function

INFOID:000000013024008

[TELEMATICS SYSTEM]

CONSULT FUNCTIONS

CONSULT performs the following functions via communication with the TCU.

Direct Diagnostic Mode	Description				
Ecu Identification	The AV control unit part number is displayed.				
Self Diagnostic Result	The AV control unit self diagnostic results are displayed.				
Data Monitor	The AV control unit input/output data is displayed in real time.				
Work support	The settings for AV control unit functions can be changed.				
CAN Diag Support Mntr	 The result of transmit/receive diagnosis of AV communication is displayed. The result of transmit/receive diagnosis of CAN communication is displayed. 				

ECU IDENTIFICATION

The part number of TCU is displayed.

SELF DIAGNOSTIC RESULT

Refer to AV-405, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
HF TYPE [BT/NO BT]	HF type is displayed.
AUDIO UNIT TYPE [AUDIO/NAVI]	AV control unit type is displayed.
CALL SWITCH TYPE [SOS/OP]	Call switch type is displayed.
SPEAKER TYPE [INDRCT]	Speaker type is displayed.
ZONE [USA]	Zone is displayed.
CHANNEL [NISSAN]	Channel is displayed.
CAN COMM [GEN.3]	CAN comm is displayed.
AV COMM [ENABLE/DISABLE]	AV comm is displayed.
K-LINE [ENABLE/DISABLE]	K-Line is displayed.
VEHICLE TYPE [ENG]	Vehicle type is displayed.
ECHO CANCEL [TYPE 1/TYPE 2/TYPE 3/TYPE 4]	Echo cancel type is displayed.
NOISE CANCEL [TYPE 1/TYPE 2/TYPE 3/TYPE 4]	Noise cancel type is displayed.
TCU STANDBY TIME [2DAYS/14DAYS/30DAYS]	TCU standby time is displayed.
SENSOR ANGLE X	_
SENSOR ANGLE Y	_
SENSOR ANGLE Z	_
SVTB	
REMOTE DOOR LOCK [ENABLE/DISABLE]	Remote door lock is displayed.
REMOTE HORN & LAMP [ENABLE/DISABLE]	Remote horn and lamp is displayed.
REMOTE START [ENABLE/DISABLE]	Remote start is displayed.
NAD OUTPUT STATUS [On/Off]	TCU activation is displayed.
ACN COMM SEQUENCE LOG [1-255]	ACN communication sequence log is displayed.
SOS COMM SEQUENCE LOG [1-10]	SOS communication sequence log is displayed.
SOS SW [ON/OFF]	SOS switch is displayed.

WORK SUPPORT

DIAGNOSIS SYSTEM (TCU)

< SYSTEM DESCRIPTION >

[TELEMATICS SYSTEM]

Conditions	Description	A
SAVE VIN DATA	VIN data saved in TCU is stored in CONSULT.	
CENTER CONNECTION SETTING	Connection to INFINITI CONNECTION data center can be set.	
	Off: TCU activation Off.	B
TCO ACTIVATE SETTING	On: TCU activation On.	
WRITE VIN (SAVED DATA)	VIN data from SAVE VIN DATA can be written to new TCU.	С
WRITE VIN (MANUAL INPUT)	VIN data can be manually written to new TCU.	

CAN DIAG SUPPORT MNTR

Refer to LAN-48, "CAN Diagnostic Support Monitor".

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< ECU DIAGNOSIS INFORMATION > ECU DIAGNOSIS INFORMATION

TCU

Reference Value

INFOID:000000013024009

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
HF TYPE		BT
AUDIO UNIT TYPE		NAVI
CALL SWITCH TYPE		SOS
SPEAKER TYPE		INDRCT
ZONE		USA
CHANNEL		NISSAN
CAN COMM		GEN.3
AV COMM		ENABLE
K-LINE		DISABLE
VEHICLE TYPE		ENG
ECHO CANCEL		TYPE1
NOISE CANCEL		TYPE1
	Set at 14 days (default)	14DAYS
	Set at 2 days	2DAYS
TCO STANDET TIME	Set at 30 days	30DAYS
	No setting	NON
SENSOR ANGLE X		4.0
SENSOR ANGLE Y		4.0
SENSOR ANGLE Z		4.0
SVTB	Ignition switch ON	DISABLE
REMOTE DOOR LOCK		DISABLE
REMOTE HORN & LAMP		DISABLE
REMOTE START		DISABLE
	When TCU activation is ON	On
NAD COTPOT STATUS	When TCU activation is OFF	Off
ACN COMM SEQUENCE LOG	_	—
SOS COMM SEQUENCE LOG	_	—
SOS SW	SOS switch pressed	On
505 SW	SOS switch released	Off

TERMINAL LAYOUT



< ECU DIAGNOSIS INFORMATION >

PHYSICAL VALUES

Terr (Wire	minal color)	Description		Condition	Reference value
+	-	Signal name	Input/ Output	Condition	(Approx.)
1 (Y)	29 (B)	Battery power supply	Input	Ignition switch OFF	Battery Voltage
2 (R)	29 (B)	ACC power supply	Input	Ignition switch ACC	Battery Voltage
3 (R)	29 (B)	ACC power supply	Output	Ignition switch ACC	Battery Voltage
5	28	SOS switch LED sig-	Input	Ignition switch ACC When not illuminated LED lamp of SOS switch 	Battery Voltage
(W/L)	(B)	nal	mput	Ignition switch ACC • When illuminated LED lamp of SOS switch	0 V
6 (L)	_	CAN high	Input/ Output	_	_
7 (P)		CAN low	Input/ Output	_	
10 (G/R)	29 (B)	Ignition signal	Input	Ignition switch ON	Battery Voltage
11 (Shield)	_	Microphone shield	_	_	
12 (W)	11 (Shield)	Microphone signal	Output	Ignition switch ACC • When inputting interior sound	(V) 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
16 (Shield)		Microphone ground		_	SKIB3609E
17 (W)	16 (Shield)	Microphone signal	Input	Ignition switch ACC • When inputting interior sound	(V) 1 0 -1 2 ms SKIB3009E
18 (R)	16 (Shield)	Microphone VCC	Input	Ignition switch ACC	5 V
26 (SB)		AV communication high	Input/ Output	_	_
27 (LG)		AV communication low	Input/ Output	_	_
28 (B)	Ground	Ground	_	Ignition switch ON	0 V
29 (B)	Ground	Ground		Ignition switch ON	0 V

TCU

< ECU DIAGNOSIS INFORMATION >

	[TELEMATICS SYSTEM]
a	Reference value

Terr (Wire	ninal color)	Description		Condition	Reference value	
+	_	Signal name	Input/ Output	Condition	(Approx.)	
31 (W)	32 (R)	Sound signal (+)	Output	Ignition switch ACC When inputting interior sound 	(V) 1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	
37	28	SOS call switch signal	Input	Ignition switch ACC When pressing SOS switch 	0 V	
(P)	(B)		mput	Ignition switch ACC Except for above 	5 V	
41 (B)	_	V BUS signal	_	_	_	
43 (G)	_	D- signal	Input/ Output	_	_	
44 (W)	_	D+ signal	Input/ Output	_	_	
45 (R)		ground	Input	_	_	
46 (Shield)	_	Shield	_	_	_	
47 (B)	Ground	TEL antenna signal	Input	Not connected TEL antenna con- nector.	2.8 V	
48 (Shield)	_	Shield	—	_	_	
49 (B)	Ground	GPS antenna signal	Input	Not connected GPS antenna con- nector.	2.8 V	
50 (Shield)	_	Shield	—		_	

Fail-safe

INFOID:000000013024010

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 systems do not function. Inform a NISSANCONNECTSM center about abnormality. 	U1A10		
CAN communication	 Telematics system does not function. Inform a NISSANCONNECTSM center about abnormality. 			
TEL antenna	 Telematics switch LED indicator OFF. (LED indicator turns ON 10 times when the SOS call switch is pressed.) When operating the telematics system, cannot be connected to the NISSANCON-NECTSM center. 			
GPS antenna	 Telematics system cannot send correct positional information. Inform a NISSANCONNECTSM center about abnormality. 	U1A09 U1A0A		
	Telematics system function stops.	U1010		
тси	 Telematics system function stops. When operating the telematics system, cannot be connected to the NISSANCON-NECTSM center. 	U1A11		

TCU

< ECU DIAGNOSIS INFORMATION >

[TELEMATICS SYSTEM]

Detection item	Telematics system operation in fail-safe mode	DTC	^
Telematics switch (SOS call switch)	Telematics system does not function. (Only SOS call inoperative.)Telematics switch LED indicator OFF.	U1A0E	A
Microphone	 Transmit vehicle position to the NISSANCONNECTSM center. Inform a NISSANCONNECTSM center about abnormality. 	U1A0B U1A0C	В

DTC Inspection Priority Chart

INFOID:000000013024011

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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	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT(CAN)	
3	 U1A00: ACC not connected U1A05: USB COMM U1A06: TEL ANTENNA ERROR U1A09: GPS ANTENNA CONN U1A0A: GPS MODULE COMM U1A0B: MIC IN CONN 	1
	 U1A0C: MIC OUT CONN U1A0E: SOS SWITCH ON STUCK U1A10: AIRBAG SIGNAL U1A11: TEL MUTE OUTPUT SIGNAL NO CONN 	C

DTC Index

INFOID:000000013024012

DTC	Display contents of CONSULT	Reference	
U1000	CAN COMM CIRCUIT	AV-417, "DTC Description"	_
U1010	CONTROL UNIT (CAN)	AV-418, "DTC Description"	
U1A00	ACC NO CONN	AV-419, "DTC Description"	0
U1A05	USB COMM	AV-420, "DTC Description"	
U1A06	TEL ANTENNA ERROR	AV-422, "DTC Description"	K
U1A09	GPS ANTENNA CONN	AV-424, "DTC Description"	
U1A0A	GPS MODULE COMM	AV-425, "DTC Description"	_
U1A0B	MIC IN CONN	AV-426, "DTC Description"	- L
U1A0C	MIC OUT CONN	AV-428, "DTC Description"	
U1A0E	SOS SWITCH ON STUCK	AV-430, "DTC Description"	M
U1A10	AIR BAG SIGNAL	AV-432, "DTC Description"	
U1A11	TEL MUTE OUTPUT SIGNAL NO CONN	AV-433, "DTC Description"	

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< WIRING DIAGRAM > WIRING DIAGRAM TELEMATICS SYSTEM

Wiring Diagram

INFOID:000000013024013



Domector Num Inc. Commector Num To MAIN HARRESS Domector Name IHBOMW-CS15-TM4 266 R TO MAIN HARRESS Domector Name WHIT 266 CB TO MAIN HARRESS Domector Name WHIT 266 CB TO MAIN HARRESS Domector Color WHIT 266 CB TO MAIN HARRESS Main Main Harress 266 CB TO MAIN HARRESS	736 S 736 S 746 756 756 776 776 776 776 776 776 776 776 776 776 776 776 776 776 776 776 776 86 805 86 866 876 866 976 986 976 986 976 986 976 986 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976 976	HIELD A R R R R R R R R R R R R R R R R R R R	TO MAIN HARNESS TO MAIN HARNESS	11 12 13 14 16 16 17 16 18 18 18 18 20 20 21 23 23 23	GR L	TO ROOM LAMP HARNESS
Somector Name Infloxiver.Stder.TM4 See TROMN HARRES Somector Color HITE WITE Somector Color WITE WITE Somector Color WITE Somector Color WITE Somector Color P	746 756 756 756 775 764 776 776 786 816 816 854 854 854 856 856 856 856 996 966 966 967 968 976 986 916 916 963 965 966 966 966 966		TO MAIN HAPNESS TO MAIN HAPNESS	12 13 14 16 16 17 16 19 20 21 22 23 23	명	
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Image: Section of the sectio	763 779 779 810 810 813 814 814 814 814 814 814 814 814 814 814	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	TO MAIN HAPNESS TO MAIN HAPNESS	14 15 16 17 17 19 20 21 21 21 23 23		TO ROOM LAMP HARNESS
Image: Section of the sectio	773 785 816 816 816 816 816 836 856 856 856 856 856 856 856 856 856 85		TO MAIN HARNESS TO MAIN HARNESS	15 16 17 17 28 20 21 23 23	æ	TO ROOM LAMP HARNESS
Image: Second	78G 79G 81G 81G 82G 83G 83G 83G 83G 83G 83G 83G 83G 83G 83		TO MAIN HARNESS TO MAIN HARNESS	16 17 18 18 20 21 21 23 23	W/B	TO ROOM LAMP HARNESS
Bit COMM HARKES - WITH COMMANNESS - WITH COM	79G 80G 82G 82G 83G 84G 84G 86G 84G 86G 94G 92G 92G 92G 92G 92G 92G 92G 92G 92G 92	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	TO MAIN HARNESS TO MAIN HARNESS	17 18 19 20 21 21 23 23	RВ	TO ROOM LAMP HARNESS
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Image:	925 936 946 956 956 956 976 976	5 × 8 5 5	TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS TO MAIN HARNESS	90	g/B	TO BOOM I AMP HABNESS
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minal Columnes 50.0 minal Color of Signal Name No. Wire 44G R/Y TO MAIN HARNESS - (WTH HARNE	94G 95G 96G 97G 98G 99G	σσ	TO MAIN HARNESS TO MAIN HARNESS	15	LG/B	IO ROOM LAMP HAHNESS
43G G TO MAIN HARNESS - WITH VIGENDI minal Color of Wire Signal Name 44G R/Y TO MAIN HARNESS No. Wire Signal Name 45G G TO MAIN HARNESS 1G Z TO MAIN HARNESS 45G G TO MAIN HARNESS 2G B/R TO MAIN HARNESS 47G R TO MAIN HARNESS 2G B/R TO MAIN HARNESS 47G R TO MAIN HARNESS	95G 96G 97G 98G 99G	σ	TO MAIN HARNESS	32	Ŷ	TO ROOM LAMP HARNESS
minal Color of No. Signal Name 44G R/Y TO MAIN HARNESS 10 Wire Signal Name 45G G TO MAIN HARNESS 13 G TO MAIN HARNESS 46G LG TO MAIN HARNESS 26 B/R TO MAIN HARNESS 47G R TO MAIN HARNESS 26 B/R TO MAIN HARNESS 47G W TO MAIN HARNESS	96G 97G 98G 99G					
minal Color of Wire Signal Name 44G R/V TO MAIN HARKESS No. Wire Signal Name 45G G TO MAIN HARKESS 1G G TO MAIN HARNESS 46G LG TO MAIN HARNESS 2G B/R TO MAIN HARNESS 47G R TO MAIN HARNESS 2G B/R TO MAIN HARNESS 47G R TO MAIN HARNESS	97G 98G 99G	~	TO MAIN HARNESS	Connecto		CF.
No. Operation Signal Name 45G G TOMIN HARKES 1G G TO MAIN HARKES 46G LG TO MAIN HARKES 1G G TO MAIN HARKES 47G LG TO MAIN HARKES 2G B/R TO MAIN HARKES 47G R TO MAIN HARKES	98G 99G	œ	TO MAIN HARNESS			
With the second secon	966	W/B	TO MAIN HARNESS	Connecto	r Name	-USE BLOCK (J/B)
10 10 Main Instruction 47G R TO MAIN HARNESS 26 B/R TO MAIN HARNESS 48G W TO MAIN HARNESS		BR	TO MAIN HARNESS	Connecto	r Type (CS06FW-M2
24 D/N 10 MAIN TATIVESS 48G W TO MAIN HARNESS	100G	GR/W	TO MAIN HARNESS	Connecto	r Color	NHITE
JG W/D T/O MAIN HARNESS 49G - TO MAIN HARNESS				14H4h		
+4 Drvw 1 / www.manueco 50G BR TO MAIN HARNESS	Connector No.	5				3N
5G BH IO MAIN HAHNESS 51G R TO MAIN HARNESS	Connector Nar	meWIF	RE TO WIRE	0 E		NL NZ
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C DAW TO MAIN LADRESS ANTTU 53G W TO MAIN HARNESS	Connector Col	lor WH	TE			NO 110 110
CUMMINS 5.0L) 54G W TO MAIN HARNESS	9		1			
7G Y TO MAIN HARNESS 55G G TO MAIN HARNESS	LED -					
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9G R TO MAIN HARNESS 57G Y TO MAIN HARNESS	H.S.			No.	Wire	signal Name
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	Terminal	olor of		SN	>	BATTERY
	No	Wire	Signal Name	EN	M	RATTEDV
134 U MAIN FARINESS 834 H I MAIN FARINESS 0 70.44410 74.44100 74.44100 74.44100 74.44100 74.44100 74.44100 74.44100 74.44100 74.44100 74.44100 74.44100 74.441000 74.41000 74.44100<	-		TO POOM I AMP LIADNESS	NP NF	: -	
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17G G/Y TO MAIN HARNESS 65G W/R TO MAIN HARNESS	2	æ	TO ROOM LAMP HARNESS	8N	×	IGNITION
18G G/Y TO MAIN HARNESS 66G BG TO MAIN HARNESS	3	×	TO ROOM LAMP HARNESS			
19G Y/V TO MAIN HARNESS 67G BG TO MAIN HARNESS	4	SB	TO ROOM LAMP HARNESS			
20G G/Y TO MAIN HARNESS 68G B TO MAIN HARNESS	5	G/W	TO ROOM LAMP HARNESS			
21G B/Y TO MAIN HARNESS 69G Y TO MAIN HARNESS	9	G/R	TO ROOM LAMP HARNESS			
22G G/R TO MAIN HARNESS 70G L TO MAIN HARNESS	2	8	TO ROOM LAMP HARNESS			
23G Y/R TO MAIN HARNESS 71G R/W TO MAIN HARNESS	80		TO ROOM LAMP HARNESS			
	6	B/G	TO BOOM LAMP HARNESS			
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TELEMATICS SYSTEM

< WIRING DIAGRAM >

[TELEMATICS SYSTEM]

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Revision: March 2016

MIS	92		COMBLSW OUT 2	23G	R/Y	TO ENGINE POOM HARNESS TO ENGINE POOM HAPNESS	76G	B/G	TO ENGINE ROOM HAHNESS TO ENGINE POOM HAPNESS
BCM (BODY CONTROL	80	-		25G	a Ma	TO ENGINE ROOM HARNESS	78G	2 a	TO ENGINE ROOM HARNESS
MODULE)				26G	œ	TO ENGINE ROOM HARNESS	79G	1	TO ENGINE ROOM HARNESS
TH40FB-NH	Connector	, NO.	M31	27G	ΓC	TO ENGINE ROOM HARNESS	80G	н	TO ENGINE ROOM HARNESS
BLACK	Connector	Name	WIRE TO WIRE	28G	G/B	TO ENGINE ROOM HARNESS	81G	-	TO ENGINE ROOM HARNESS
	Connector	Type	TH80FW-CS16-TM4	29G	G/B BB/V	TO ENGINE ROOM HARNESS TO ENGINE BOOM HARNESS	82G 83G	œ _	TO ENGINE ROOM HARNESS TO ENGINE ROOM HARNESS
	Connector	Color \	NHITE	31G	œ	TO ENGINE ROOM HARNESS	84G		TO ENGINE ROOM HARNESS
57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41				32G	œ	TO ENGINE ROOM HARNESS	85G	×	TO ENGINE ROOM HARNESS
77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61	d Hite			33G	٨L	TO ENGINE ROOM HARNESS	86G	B/B	TO ENGINE ROOM HARNESS
	HS		havened	34G	GR	TO ENGINE ROOM HARNESS	87G	M	TO ENGINE ROOM HARNESS
			16 26 36 46 ⁵⁶	35G	G/R	TO ENGINE ROOM HARNESS	88G	9	TO ENGINE ROOM HARNESS
r of			6G 7G 8G 9G 10G	36G	ß	TO ENGINE ROOM HARNESS	89G	٩	TO ENGINE ROOM HARNESS
e Signal Name				37G	RM	TO ENGINE ROOM HARNESS	90G	σ	TO ENGINE ROOM HARNESS
TRAILER LIGHT CHECK RELAY		EJ	0 120 130 140 130 180 170 189 130 200 200	380	88 8	TO ENGINE ROOM HARNESS	91G 02G	P	TO ENGINE ROOM HARNESS TO ENGINE DOOM HADNESS
			G12C633C634C35C38C37C538C39C40C41C		5	TO ENGINE POOM HADNESS	520		TO ENGINE POOM HADNESS
CAHGO LAWF OUT			426436446456466476486496506	41G	B/G	TO ENGINE ROOM HARNESS	94G	5 @	TO ENGINE ROOM HARNESS
		2	ตไรวต่ะจะต่ะระต่ะระต่ะสุดครั้งต่ะสุดได้สุด	42G	c	TO ENGINE ROOM HARNESS	956		TO FNGINE BOOM HABNESS
			6266366466566666766866896706	43G	5 0	TO ENGINE ROOM HARNESS	996	, a	TO ENGINE ROOM HARNESS
				44G	- NB	TO ENGINE ROOM HARNESS	976		TO ENGINE ROOM HABNESS
		<u> </u>	0 /20 /30 /40 /30 /70 /70 /80 /80 800810	45G	0	TO ENGINE ROOM HARNESS	986	W/B	TO ENGINE ROOM HARNESS
HIGH SIDE START SW I ED				46G	P	TO ENGINE ROOM HARNESS	966		TO ENGINE ROOM HARNESS
			^{91G} 92G 93G 94G 95G	47G	6	TO ENGINE ROOM HARNESS	100G	GR/W	TO ENGINE ROOM HARNESS
,			96G 97G 98G 99G 100G	48G	>	TO ENGINE ROOM HARNESS			
-]	49G		TO ENGINE ROOM HARNESS			
AUDIO DONGLE				50G	BB	TO ENGINE ROOM HARNESS			
1				51G	œ	TO ENGINE ROOM HARNESS			
L PW UART	Terminal	Color of	Cicnol Namo	52G	L	TO ENGINE ROOM HARNESS			
B L&R SENSOR K-LINE	No.	Wire		53G	M	TO ENGINE ROOM HARNESS			
1	16	σ	TO ENGINE ROOM HARNESS	54G	×	TO ENGINE ROOM HARNESS			
1	2G	B/R	TO ENGINE ROOM HARNESS	55G	σ	TO ENGINE ROOM HARNESS			
1	ä	M	TO ENGINE ROOM HARNESS	56G	>	TO ENGINE ROOM HARNESS			
CAN-L	4G	BR/W	TO ENGINE ROOM HARNESS	57G	>	TO ENGINE ROOM HARNESS			
CAN-H	5G	BR	TO ENGINE ROOM HARNESS	58G	BG	TO ENGINE ROOM HARNESS			
REAR DEFOGGER RELAY OUT	99	RW	TO ENGINE ROOM HARNESS	59G	Bg	TO ENGINE ROOM HARNESS			
STARTER RELAY OUT	7G	>	TO ENGINE ROOM HARNESS	60G	g	TO ENGINE ROOM HARNESS			
1	98	σ	TO ENGINE ROOM HARNESS	61G	0	TO ENGINE ROOM HARNESS			
BUZZER OUT	96	æ	TO ENGINE ROOM HARNESS	62G	8	TO ENGINE ROOM HARNESS			
-	10G	×	TO ENGINE ROOM HARNESS	63G	0	TO ENGINE ROOM HARNESS			
BLOWER FAN RELAY OUT	11G	R/G	TO ENGINE ROOM HARNESS	64G	ML	TO ENGINE ROOM HARNESS			
IGN ELEC RELAY OUT 2	12G	W/B	TO ENGINE ROOM HARNESS	65G	W/R	TO ENGINE ROOM HARNESS			
MR OUTPUT	13G	BB	TO ENGINE ROOM HARNESS	999	BG	TO ENGINE ROOM HARNESS			
3 AT DEVICE OUT	14G	Y/B	TO ENGINE ROOM HARNESS	67G	0	TO ENGINE ROOM HARNESS			
IGN USM OUT 1	15G	G/W	TO ENGINE ROOM HARNESS	68G	•	TO ENGINE ROOM HARNESS			
DR REQUEST SW	16G	σ	TO ENGINE ROOM HARNESS	69G	۲	TO ENGINE ROOM HARNESS			
AS REQUEST SW	17G	0	TO ENGINE ROOM HARNESS	70G		TO ENGINE ROOM HARNESS			
	18G	G√	TO ENGINE ROOM HARNESS	71G	R/W	TO ENGINE ROOM HARNESS			
-	19G	٨٨	TO ENGINE ROOM HARNESS	72G	Ŋ	TO ENGINE ROOM HARNESS			
V COMBI SW OUT 5	20G	GV	TO ENGINE ROOM HARNESS	73G	SHIELD	TO ENGINE ROOM HARNESS			
COMBI SW OUT 4	21G	ΒΛ	TO ENGINE ROOM HARNESS	74G	M	TO ENGINE ROOM HARNESS			
COMBI SW OUT 3	22G	G/R	TO ENGINE ROOM HARNESS	75G	œ	TO ENGINE ROOM HARNESS			
이 이 가지 않는 것 같은 것 같	MODULE MODULE TH40FB-NH TH40FB-NH TH40FB-NH TH40FB-NH Triangle State Signal Name rol Signal Name rol<	MODULE MODULE MODULE THAOFE-NH Enderty Connector Signal Name Signal Name Connector Y Caraco Lane our Connector Y Caraco Lane our Connector Y Caraco Lane our Signal Name L TAUIDIO DONGLE MURIT Y Caraco Lane our Signal Name L TAULEN LEIN Signal Name L Hauten Lont Creck RELAY Connector Y Caraco Lane our Signal Name L Hules SIDE STAT SW LED Signal Name L L Signal Name Signal Name R AUDIO DONGLE Signal Name Signal Name L L Signal Name Signal Name L Hules SIDE STAT SW LED Signal Name Signal Name L AUDIO DONGLE Signal Name Signal Name L Caraco Lane our Signal Name Signal Name R L Signal Name Signal Name	MODULE MODULE HadOFE-NH Connector Name Tages sease and market and	MODUE MODUE MODUE THADERLAIN Connector Name WIRE TO WIRE THADERLAIN Connector Name WIRE TO WIRE TMM NAM NEW MIRE MERINA Connector Name WIRE TO WIRE TMM NAM NEW MIRE Connector Name WIRE TO WIRE TMM NAM NEW MIRE Connector Name WIRE TO WIRE TMM NAM NEW MIRE Signal Name MODUE Modue Signal Name MODUE Modue Signal Name MIRE TO WIRE Modue Mire New M	MODULE MODULE MOL M	Immobility Immobil			

TELEMATICS SYSTEM CONNECTORS

2016 Titan NAM



TELEMATICS SYSTEM

< WIRING DIAGRAM >

[TELEMATICS SYSTEM]

Revision: March 2016

TELEMATICS SYSTEM CONNECTORS

				:						
Connector No.		M142	Connector	.No.	M156	Connector	No.	M161	Connector	No.
Connector Nai	ame /	AV CONTROL UNIT (WITH	Connector	· Name	TCU	Connector	Name	TCU	Connector	Name
	1	AUDIO AMPLIFIER)	Connector	Type	USCAR30-MD-M	Connector	Type	3FA1ANCSJ-C02W0	Connector	Type
Connector Typ	be	TH08FW-NH	Connector	. Color	GREEN	Connector	Color	BLUE	Connector	Color
Connector Col	olor V	NHITE	f			Ŧ			E	
Ę			MHAHN	L		d bit bit			AHAHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
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H.S.					46 45 44 43 42 41					
		67 66 65 64								
			Tominol	o volo C		Tominol	0,000	-		
Terminal Co	color of	Sinnal Nama	No.	Wire	Signal Name	No.	Wire	Signal Name		
No.	Wire		41	m	VBUS	49	m	GPS ANT		
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61 S	SHIELD	DCM SHIELD	43	σ	<u>ط</u>				No.	Wire
62	ī	-	44	w	D+	Connector	NO	M162	-	BR
63	1	-	45	æ	GND				2	в
64	ш	TCU IN-	46	SHIELD	SHIELD	Connector	Name	I CU AN I ENNA	e	в
65		I				Connector	Type	GT16CN-2PP-HUA	4	8
99	1	-	Connector	QN.	M158	Connector	Color	BROWN	2	BR
67	ī	1			001101	f			9	m
			Connector	name -					7	8
Connector No.		M152	Connector	Type	FAKRA CODE H 4003	HS			80	в
Connector No.			Connector	. Color	PINK				6	BB
			Ę						10	m
Connector Tvp	be	JSCAR30-MD-M							F	в
Connector Co		DEFN	H.S.		PG))	12	8
	5	direrv			\$(()				13	в
						Terminal	Color o Wire	Signal Name	14	
SH						-	-	GSM ANT	5 6	<u></u>
		3 72 71 70 69 68				2	SHIELD	GSM SHIELD	17	ď
			Terminal	Color o	f Signal Name	e	•	GPS ANT	8	
			No.	Wire	2	4	SHIELD	GPS SHIELD	19	SHIELD
			4/		GSM ANI				20	8
Terminal Co	inlor of		48	SHIELU	GOM SHIELU				21	в
No.	Wire	Signal Name							22	в
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Signal Name

Color of Wire BR B

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< WIRING DIAGRAM >

JOINT CONNECTOR-M01 NH24FW-J WHITE

M191

[TELEMATICS SYSTEM]

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nnector No.	Ŵ	197	39	1		1	Connector	ON	B5
	ε ί	10	40	'		1			
nector Nai	me IC	0					Connector	Name	MICHOPHONE
nector Typ	e F	140FB-NH	Connecto	or No.	æ		Connector	Type	TK04FW
nector Col	lor BL	ACK	Connecto	or Name	WIRE TO V	NIRE	Connector	Color	WHITE
			Connecto	or Type	TH32MW-P	HN	E		
U T			Connecto	or Color	WHITE		Ч		
20 19 40 39	9 18 17 16 1	5 14 13 12 11 10 9 8 7 6 5 4 3 2 5 34 33 22 31 30 29 28 27 26 25 24 23 22 1	E				2		1 2 3 4
			H.S.	1 2 3	4 5 6 7 8	8 9 10 11 12 13 14 15 16			
No.	olor of Wire	Signal Name		8 0 7	7 07 77 17 07	70 10 00 67 07 17 07 07 47	Terminal No.	Color of Wire	f Signal Name
-	>	BAT		-	-		-	8	MIC +
2 0	<u>م</u>	ACC	Terminal No.	Color Wire	of	ignal Name	5 6	SHIELD	MIC GROUND
0 4	: ,	-	-	SHIELI	T01	MAIN HARNESS	0 4	œ	MIC V +
c,	WL	LED A	2	в	TOI	MAIN HARNESS			
6	L	CAN-H	e	×	101	MAIN HARNESS	Connector	ON	R15
7	٩	CAN-L	4	Υ/R	TOL	MAIN HARNESS	Connector	Name	TELEMATICS SWITCH
8	,	I	ŝ	9 Ng	101	MAIN HARNESS			
6	,	T	9	G/R	TOL	MAIN HARNESS	CONTRECTO	adki	
10	G/R	IGN	2	m .	101	MAIN HARNESS	Connector	Color	WHIE
11	HIELD	MIC OUT GND			101	MAIN HARNESS	E		
12	>	MIC OUT SIGNAL	₽ ÷	2 0		MAIN HARNESS MAIN LADNESS			R
2		1	= =			MAIN HARNESS	Ъ. К.		
<u>+</u> 5			12		Tol	MAIN HARNESS			4 3 2 1
16	HIELD	MIC GND	13	В	TOT	MAIN HARNESS			
17	>	MIC SIGNAL	14	œ	TOI	MAIN HARNESS			
18	œ	MIC VCC	15	W/B	TOT	MAIN HARNESS	- - 	-	
19	1	1	16	L/B	TOI	MAIN HARNESS	lerminal	Color of	f Signal Name
20	,	1	17	1	TOI	MAIN HARNESS			
21	,	1	18	٩	TOI	MAIN HARNESS	- 0		
22		1	19	WL	TOI	MAIN HARNESS	N 6	•	
23	,	1	20	W/B	TOI	MAIN HARNESS		2	ECALL SW
24	,	1	21	1	TOI	MAIN HARNESS	4 r		
25	,	1	22	1	TOI	MAIN HARNESS	0	- 6	
26	ß	M-CAN H	23	'	TOI	MAIN HARNESS	י פ	Ξ,	ILLUMINALION -
27	ГG	M-CAN L	24	'	TOI	MAIN HARNESS		2	GHOUND
28		GND	25	'	TOT	MAIN HARNESS	30	1	-
29	8	GND	26	1	TOI	MAIN HARNESS			
30	,	-	27	'	TOI	MAIN HARNESS			
31	×	AUDIO HU OUT+	28	Y/R	TOL	MAIN HARNESS			
32	æ	AUDIO HU OUT-	29	G/R	TOI	MAIN HARNESS			
33	,	1	30	G/W	TOI	MAIN HARNESS			
34	,	1	31	LG/B	TOI	MAIN HARNESS			
35		1	32	٨X	TOI	MAIN HARNESS			
36	,	1							
27	•	FCALL SW							



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BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000013024014

OVERALL SEQUENCE



• Reference 1... Refer to AV-400, "CONSULT Function".

- Reference 2^{...} Refer to <u>AV-405</u>, "DTC Index".
- Reference 3^{...} Refer to AV-436. "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?

NO >> Inspection End.

2. DIAGNOSIS WITH CONSULT

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION > [TELEMATICS SYSTEM]	
 Connect CONSULT and perform a self-diagnosis for "TCU". Refer to <u>AV-400, "CONSULT Function"</u>. When DTC is detected, follow the instructions below: Record DTC and Freeze Frame Data. 	A
Is DTC displayed?	
YES >> GO TO 3.	E
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-405</u>, "<u>DTC Index</u>". 	C
>> GO TO 5.	
4.TROUBLE DIAGNOSIS FOR SYMPTOMS	
Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to <u>AV-436</u> , "Symptom <u>Table"</u> .	E
>> GO TO 5.	F
5. ERROR PART REPAIR	
 Repair or replace the identified malfunctioning parts. Perform a self-diagnosis for "TCU" with CONSULT. Check that the symptom does not occur. 	(
Does the symptom occur?	ŀ
YES >> GO TO 1.	
NO >> Inspection End.	[
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ADDITIONAL SERVICE WHEN REPLACING TCU

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING TCU

Description

NOTE:

- You must have ALL customer keys before beginning this procedure.
- Each TCU is registered to a specific VIN. TCU's cannot be swapped between vehicles. Once a TCU is registered to a vehicle, the TCU cannot be used in another vehicle.
- The replacement TCU must come from Nissan North America parts supply.

When TCU is replaced, TCU activation operation is required. Refer to AV-414, "Work Procedure".

Preparation before activation operation

- Subscribe to telematics service
- Preregister user ID and password (can be performed from owner homepage)
- Open the driver's door and leave it open during entire procedure.

Work Procedure

INFOID:000000013268414

1.TURN TCU OFF

CONSULT Work support

- 1. Select TCU ACTIVATE SETTING, then Start.
- 2. Select Start, then select Off to turn OFF the TCU.
- 3. Select End to return to the Work support Test Item screen.

>> GO TO 2.

2.SAVE VIN DATA

NOTE:

If the VIN data cannot be saved, it will have to be entered manually later in this procedure.

(P)CONSULT Work support

- 1. Select SAVE VIN DATA, then Start.
- 2. Select Start to save the VIN data.
- 3. Select End to return to the Work support Test Item screen.

>> GO TO 3.

3.REMOVE TCU

Remove the TCU. Refer to AV-439, "Removal and Installation".

>> GO TO 4.

4.RECORD TCU PART LABEL INFORMATION

Collect, record and have the following information ready:

• VIN.

- International Mobile Equipment Identity (IMEI) number of the original TCU. Located on the TCU part label.
- International Mobile Equipment Identity (IMEI) number of the replacement TCU. Located on the TCU part label.
- Serial number of the replacement TCU. Located on the TCU part label.

[TELEMATICS SYSTEM]

INFOID:000000013268413

ADDITIONAL SERVICE WHEN REPLACING TCU

< BASIC INSPECTION >



[TELEMATICS SYSTEM]

		DURING SUMMER AND LIMITED TIME DURING TRANSPORT UP TO 60C UNTIL 492015 (WWYYYY) SEE RECOMMENDATIONS OF USE TCU GEN2 DOCUMENT FOR MORE DETAILS Advanced Automotive Antennas S.L.	PAT. US7.148.850 ET ALT. (c) 2009 Advanced Automotive Antennas. S.L. All rights reserved.	ALNIA1892ZZ	E
5 .INST	>> GO TO 5. ALL TCU				F
Install th	ne TCU. Refer to <u>/</u> >> GO TO 6.	V-439, "Removal and Installation	<u>"</u> .		G
6.vin i	DATA				Н
Was the YES NO 7 wor	e VIN data saved of >> GO TO 7. >> GO TO 8.	during step 2?			I
ON ON	SULT Work suppo ect WRITE VIN D. ect Start. er the data writing	rt ATA, then Start. has been completed, select End t	to return to the Work supp	ort Test Item screen.	J
8 .man	>> GO TO 9. IUALLY ENTER V	IN DATA			L
CON 1. Sel 2. Ent 3. Ent 4. Sel	SULT Work suppo ect WRITE VIN (N er the VIN numbe er the VIN numbe	rt IANUAL INPUT), then Start. r in the VIN (1ST TIME) field. r in the VIN (2ND TIME) field.			Μ
5. Afte	er the VIN registra	tion has been completed, select E	End to return to the Work s	support Test Item screen.	AV
9.reg	>> GO TO 9. ISTER INTELLIG	ENT KEYS			0
For initian screen i	alization and regis instructions. >> GO TO 10.	stration of Intelligent Keys, refer t	o CONSULT Immobilizer	mode and follow the on-	Ρ

10.CONTACT SIRIUSXM CALL CENTER

NOTICE:

ADDITIONAL SERVICE WHEN REPLACING TCU

< BASIC INSPECTION >

[TELEMATICS SYSTEM]

This step must be performed to activate the replacement TCU. If this step is not performed, the TCU will not be able to communicate with the NissanConnectSM Data Center.

- 1. Call the SiriusXM call center. You will be asked for your name, dealer name, and the information collected in step 4. The call center agent will deactivate the original TCU and activate the replacement TCU.
- 2. Wait for the SiriusXM Call center agent to call back, confirming TCU registration.
- NOTE:

This step may take 1–2 hours.

>> GO TO 11.

11.TURN TCU ON

- 1. Open driver's door and leave open.
- 2. Turn ignition switch ON.
- 3. Press the hazard warning flasher switch and leave ON.
- 4. Turn ignition switch OFF. Make sure ACC mode is also OFF.
- 5. Wait 3 minutes and 30 seconds.

NOTE: You MUST wait the full 3 minutes and 30 seconds.

- During this wait time:
- Keep the driver door open
- Keep the ignition/ACC OFF
- Do not press the telematics switch
- Do not operate the navigation or audio systems
- Do not change door lock/unlock status

NOTE:

If any of the bulleted instructions above are not followed, turn the ignition ON, then OFF and perform Step 4 again.

- 6. Press and hold the telematics switch for more than 10 seconds.
- 7. After releasing the telematics switch, turn ignition switch ON.
- 8. Wait 60 seconds (1 minute). **NOTE:**

You MUST wait the full 60 seconds (1 minute).

- Keep the ignition ON and do not press the telematics switch during this wait time
- 9. Confirm the telematics switch LED indicator is turned ON.
- 10. Press the hazard warning flasher switch to turn OFF.

>> GO TO 12.

12. CONFIRM TELEMATICS OPERATION

Press the headset icon on the map screen to initiate a call.

Is the voice menu heard?

- YES >> Work End.
- NO >> GO TO 10.

DTC/CIRCUIT DIAGNOSIS U1000 CAN COMM CIRCUIT

DTC Description

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INFOID:000000013024032

[TELEMATICS SYSTEM]

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-70. "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart".

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition	F
		Diagnosis condition	When ignition switch is ON.	
111000	CAN COMM CIRCUIT	Signal (terminal)	—	G
01000	(CAN COMM CIRCUIT)	Threshold	—	
		Diagnosis delay time	—	Н

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

|--|

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "TELEMATICS".
- 3. Check DTC.

Is DTC U1000 detected?

- YES >> Proceed to <u>AV-417</u>, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to <u>GI-43, "Intermittent Incident"</u>.

NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

1.PERFORM SELF DIAGNOSTIC RESULT

CONSULT

- 1. Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS".
- 4. Check DTC.

Is DTC U1000 detected?

- YES >> Refer to LAN-51. "Trouble Diagnosis Flow Chart".
- NO >> Refer to <u>GI-43, "Intermittent Incident"</u>.



INFOID:000000013024033

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< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Description

INFOID:000000013024034

[TELEMATICS SYSTEM]

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-70, "CAN COMMUNICATION SYSTEM : CAN Communica-</u> tion Signal Chart".

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition
		Diagnosis condition	When ignition switch is ON.
11010	CONTROL UNIT(CAN)	Signal (terminal)	—
01010	[Control unit(CAN)]	Threshold	—
		Diagnosis delay time	—

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "TELEMATICS".
- 3. Check DTC.

Is DTC U1010 detected?

- YES >> Proceed to AV-418, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013250929

1.PERFORM SELF DIAGNOSTIC RESULT

CONSULT

- 1. Turn ignition switch ON.
- Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS".
- Check DTC.

Is DTC U1010 detected?

- YES >> Replace the TCU. Refer to <u>AV-439</u>, "Removal and Installation".
- NO >> Refer to <u>GI-43, "Intermittent Incident"</u>.

U1A00 TCU

< DTC/CIRCUIT DIAGNOSIS > U1A00 TCU

DTC Description

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition	С		
		Diagnosis condition	When ignition switch is ON.			
114 0 00	ACC not connected	Signal (terminal)				
UTAUU	(ACC not connected)	Threshold	No input of ACC signal	D		
		Diagnosis delay time	_			
POSSIBLE TCU	CAUSE			Ε		
FAIL-SAFE —				F		
DTC CONF 1 .perfor	IRMATION PROCEDURE	CEDURE		G		
CONSULT 1. Turn ign 2. Select " 3. Check D	- ition switch ON. Self Diagnostic Result" mode c ITC.	of "TELEMATICS".		Η		
<u>Is DTC U1A(</u> YES >> NO-1 >> NO-2 >>	<u>00 detected?</u> Proceed to <u>AV-419, "Diagnosis</u> To check malfunction symptom Confirmation after repair: Inspe	<u>s Procedure"</u> . 1 before repair: Refer to <u>GI-43</u> ection End.	, "Intermittent Incident".	I		
Diagnosis	Diagnosis Procedure					
1. снеск <i>А</i>	I.CHECK ACC POWER CIRCUIT INFOID:000000013024036					
Check the A	CC power circuit. Refer to AV-4	435, "Diagnosis Procedure".				
Is the inspec YES >> NO >>	<u>tion result normal?</u> Replace TCU. Refer to <u>AV-439</u> Repair or replace malfunctioni	9, "Removal and Installation". ng parts.		L		
				M		

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[TELEMATICS SYSTEM]

INFOID:000000013024035

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< DTC/CIRCUIT DIAGNOSIS >

U1A05 TCU

DTC Description

INFOID:000000013248577

[TELEMATICS SYSTEM]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition
		Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	-
U1A05	(USB comm)	Threshold	Malfunction in USB communication be- tween TCU and AV control unit
		Diagnosis delay time	_

POSSIBLE CAUSE

USB harness

• TCU

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "TELEMATICS".
- 3. Check DTC.

Is DTC U1A05 detected?

- YES >> Proceed to <u>AV-420. "Diagnosis Procedure"</u>.
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013248578

Regarding Wiring Diagram information, refer to AV-406. "Wiring Diagram".

1. CHECK USB CIRCUITS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect TCU connector M156 and AV control unit connector M152.
- 3. Check continuity between TCU connector M156 and AV control unit connector M152.

Т	CU	AV control unit		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
	41			68	
	43		70		
M156	44	M152	71	Yes	
	45		72		
	46		73		

4. Check the continuity between TCU connector M156 and ground.

U1A05 TCU

< DTC/CIRCUIT DIAGNOSIS >

[TELEMATICS SYSTEM]

TC	U	Ground	Continuity
Connector	Terminal	Ground	Continuity
	41		
M156	44	—	No
he inspection result norr	nal?		
ES >> Replace TCU	Refer to AV-439 "Remova	l and Installation"	
O >> Repair or repla	ce harness or connectors.	and motanation.	

< DTC/CIRCUIT DIAGNOSIS >

U1A06 TEL ANTENNA

DTC Description

INFOID:000000013024042

[TELEMATICS SYSTEM]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
		Diagnosis condition	When ignition switch is ON.
U1A06 TEL ANTENNA ERROR (TEL antenna error)		Signal (terminal)	—
	Threshold	Malfunction detected in TEL antenna signal circuit between TCU and TEL antenna	
		Diagnosis delay time	—

POSSIBLE CAUSE

- TEL antenna signal circuit
- TEL antenna
- TCU

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "TELEMATICS".
- 3. Check DTC.

Is DTC U1A06 detected?

- YES >> Proceed to AV-422, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013024043

Regarding Wiring Diagram information, refer to AV-406, "Wiring Diagram".

1.CHECK TELEMATICS ANTENNA

Visually check telematics antenna and antenna feeder. Refer to AV-441. "Removal and Installation".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK TCU VOLTAGE

- 1. Disconnect TCU harness connector M158.
- 2. Turn ignition switch ON.
- 3. Check voltage between TCU connector M158 and ground.

TCU			Voltage
Connector	Terminal	Ground	(Approx.)
M158	47		2.8 V

Is the check result normal?

YES >> Replace telematics antenna. Refer to <u>AV-441, "Removal and Installation"</u>.

U1A06 TEL ANTENNA

[TELEMATICS SYSTEM]

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NO >> Replace TCU. Refer to <u>AV-439</u>, "Removal and Installation".

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< DTC/CIRCUIT DIAGNOSIS >

U1A09 GPS ANTENNA

DTC Description

INFOID:000000013024044

[TELEMATICS SYSTEM]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
		Diagnosis condition	When ignition switch is ON.
111000	GPS ANTENNA CONN	Signal (terminal)	—
(GPS antenna conn)	Threshold	No input of GPS antenna signal	
		Diagnosis delay time	—

POSSIBLE CAUSE

- GPS antenna signal circuit
- GPS antenna
- TCU

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- $\check{1}$. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "TELEMATICS".
- 3. Check DTC.

Is DTC U1A09 detected?

- YES >> Proceed to <u>AV-424, "Diagnosis Procedure"</u>.
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013024045

Regarding Wiring Diagram information, refer to AV-406, "Wiring Diagram".

1.CHECK TELEMATICS ANTENNA

Visually check telematics antenna and antenna feeder. Refer to <u>AV-441, "Removal and Installation"</u>. <u>Is the inspection result normal?</u>

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK TCU VOLTAGE

- 1. Disconnect TCU harness connector M161.
- 2. Turn ignition switch ON.
- 3. Check voltage between TCU connector M161 and ground.

TCU			Voltage
Connector	Terminals	Ground	(Approx.)
M161	49		2.8 V

Is the check result normal?

YES >> Replace telematics antenna. Refer to AV-441, "Removal and Installation".

NO >> Replace TCU. Refer to <u>AV-439</u>, "Removal and Installation".



< DTC/CIRCUIT DIAGNOSIS > U1A0A TCU

01/10/11/00

DTC Description

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition	
		Diagnosis condition	When ignition switch is ON.	
		Signal (terminal)	_	
U1A0A	(GPS module comm)	Threshold	Malfunction in the GPS module internal to TCU	
		Diagnosis delay time	—	
POSSIBLE TCU	CAUSE			
FAIL-SAFE				
—				
DTC CONF	IRMATION PROCEDURE			
1.PERFOR	M DTC CONFIRMATION PRC	CEDURE		
CONSULT	tion switch ON.			
2. Select "S 3. Check D	Self Diagnostic Result" mode c TC.	f "TELEMATICS".		
Is DTC U1A	A detected?			
YES >>	Proceed to <u>AV-425, "Diagnosis</u>	<u>Procedure"</u> .		
NO-1 >> (Confirmation after repair: Inspe	ection End.	<u>, intermittent incident</u> .	
Diagnosis	Procedure		INFQID:000000013024051	
4				
I.PERFOR	M SELF DIAGNOSTIC RESU	_T		
 CONSULT Turn igni Frase D 	ition switch ON. TC			
 Select "S Check D 	Self Diagnostic Result" mode c TC.	f "TELEMATICS".		
Is DTC U1A	A detected?			
YES >> I NO >> I	Replace the TCU. Refer to <u>AV-</u> Refer to <u>GI-43, "Intermittent In</u>	439, "Removal and Installatic cident".	<u>on"</u> .	ŀ

INFOID:000000013024050

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U1A0B MICROPHONE

< DTC/CIRCUIT DIAGNOSIS >

U1A0B MICROPHONE

DTC Description

INFOID:000000013024052

[TELEMATICS SYSTEM]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
		Diagnosis condition	When ignition switch is ON.
	MIC IN CONN	Signal (terminal)	—
UTAUB	(MIC in conn)	Threshold	No input of microphone circuits
		Diagnosis delay time	_

POSSIBLE CAUSE

- Harness or connectors
- Microphone
- TCU

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "TELEMATICS".
- 3. Check DTC.

Is DTC U1A0B detected?

- YES >> Proceed to <u>AV-426, "Diagnosis Procedure"</u>.
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013024053

Regarding Wiring Diagram information, refer to AV-406, "Wiring Diagram".

1. CHECK MIC IN SIGNAL CIRCUIT AND MIC VCC CIRCUIT CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect TCU connector M197 and microphone connector R5.
- 3. Check continuity between TCU connector M197 and microphone connector R5.

T	CU	Microphone		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	16		2	
M197	17	R5	1	Yes
	18		4	

4. Check the continuity between TCU connector M197 and ground.

TCU		Ground	Continuity
Connector	Terminal	Cround	Conuntury

U1A0B MICROPHONE

< DTC/CIRCUIT DIAGNO	SIS >		[TELEMATICS SYSTEM]
M197	17 18		No
Is the inspection result norr YES >> GO TO 2. NO >> Repair or repla 2.CHECK MIC VCC VOLT	<u>nal?</u> ce harness or connector ĀGE	S.	
 Connect TCU connect Turn ignition switch ON Check voltage between 	or M197 and microphone I. n terminals of TCU conne	e connector R5. ector M197.	
	TCU connector M197		
(+) Terminal	Те	(-)	Voltage (Approx.)
18		16	5.0 V
3. CHECK MIC IN SIGNAL Check signal between term	- inals of TCU connector I	W197.	
TCU conne	ector M197	_	
(+) Torminal	(-) Torminal	Condition	Reference value
17	16	Speak into microphone.	(V) 1 0 -1 • 2ms SKIB3609E
s the inspection result nor	mal?		
YES >> Replace TCU. NO >> Replace micro	Refer to <u>AV-439, "Remov</u> phone. Refer to <u>AV-442,</u>	val and Installation". "Removal and Installation".	

U1A0C MICROPHONE

< DTC/CIRCUIT DIAGNOSIS >

U1A0C MICROPHONE

DTC Description

INFOID:000000013024054

[TELEMATICS SYSTEM]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
		Diagnosis condition	When ignition switch is ON.
U1A0C	MIC OUT CONN (MIC out conn)	Signal (terminal)	_
		Threshold	No output of microphone circuits
		Diagnosis delay time	_

POSSIBLE CAUSE

- Harness or connectors
- TCU
- AV control unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "TELEMATICS".
- 3. Check DTC.

Is DTC U1A0C detected?

- YES >> Proceed to <u>AV-428, "Diagnosis Procedure"</u>.
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013024055

Regarding Wiring Diagram information, refer to AV-406, "Wiring Diagram".

1. CHECK TCU MIC SIGNAL CIRCUIT CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect TCU connector M197 and AV control unit connector M45.
- 3. Check continuity between TCU connector M197 and AV control unit connector M45.

TCU		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M107	11	M45	41	Vec
IVI 197	12	10145	43	165

4. Check the continuity between TCU connector M197 and ground.

Т	CU	Ground	Continuity	
Connector Terminal		Ground	Continuity	
M197	12	—	No	

U1A0C MICROPHONE

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connectors.

2. CHECK TCU MIC SIGNAL

Check signal between TCU connector M197.

TCU connector M197				
(+)	(-)	Condition	Reference value	
Terminal	Terminal			С
12	11	Speak into microphone.	(V) 1 0 -1 + 2ms	D

Is the inspection result normal?

YES >> Replace TCU. Refer to <u>AV-439</u>, "Removal and Installation".

NO >> Replace AV control unit. Refer to <u>AV-438</u>, "<u>Removal and Installation</u>".

[TELEMATICS SYSTEM]

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< DTC/CIRCUIT DIAGNOSIS >

U1A0E TELEMATICS SWITCH

DTC Description

INFOID:000000013024056

[TELEMATICS SYSTEM]

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
	SOS SWITCH ON STUCK (SOS switch ON stuck)	Diagnosis condition	When ignition switch is ON.
U1A0E		Signal (terminal)	_
		Threshold	ECALL SW short circuit
		Diagnosis delay time	—

POSSIBLE CAUSE

- Harness or connectors
- Telematics switch
- TCU

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "TELEMATICS".
- 3. Check DTC.

Is DTC U1A0E detected?

- YES >> Proceed to <u>AV-430, "Diagnosis Procedure"</u>.
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013024057

Regarding Wiring Diagram information, refer to AV-406, "Wiring Diagram".

1. CHECK ECALL SW FOR SHORT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect TCU connector M197 and telematics switch connector R15.
- 3. Check the continuity between TCU connector M197 and ground.

T	CU	Ground	Continuity	
Connector	Terminal	Croand	Continuity	
M197	37	—	No	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2. CHECK TELEMATICS SWITCH

Check continuity between telematics switch terminals.

Telematics swite	h connector R15	Condition	Continuity
Terminal	Terminal	Condition	Continuity

U1A0E TELEMATICS SWITCH

DTC/CIRCUIT DIAGN	DSIS >		
3	7	Switch pressed	Yes
J		Switch released	No
the inspection result no	rmal?		
ES >> Replace TCU	. Refer to <u>AV-439, "Remo</u>	val and Installation".	
O >> Replace telen	natics switch. Refer to <u>Av</u>	-440, Removal and Installatio	<u>.</u> .

< DTC/CIRCUIT DIAGNOSIS > U1A10 TCU

DTC Description

INFOID:000000013024046

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
U1A10	AIRBAG SIGNAL (Airbag signal)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	—
		Threshold	When an abnormal signal from air bag diag- nosis sensor is detected
		Diagnosis delay time	_

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "TELEMATICS".
- 3. Check DTC.

Is DTC U1A10 detected?

- YES >> Proceed to AV-432, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-43, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000013024047

1.PERFORM SELF DIAGNOSTIC RESULT OF AIR BAG

CONSULT

- Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "AIR BAG".
- 4. Check DTC.

Are any DTCs detected?

YES >> Refer to <u>SRC-14, "DTC Index"</u>.

NO >> GO TO 2.

2.PERFORM SELF DIAGNOSTIC RESULT OF TELEMATICS

CONSULT

- Turn ignition switch ON.
- 2. Erase DTC.
- 3. Select "Self Diagnostic Result" mode of "TELEMATICS".
- 4. Check DTC.

Is DTC U1A10 detected?

- YES >> Replace TCU. Refer to <u>AV-439</u>, "Removal and Installation".
- NO >> Refer to <u>GI-43, "Intermittent Incident"</u>.
U1A11 TCU

< DTC/CIRCUIT DIAGNOSIS >

U1A11 TCU

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC de	etection condition	C
		Diagnosis condition	When ignition switch is ON.	
	TEL MUTE OUTPUT SIGNAL NO	Signal (terminal)	_	
U1A11	CONN (TEL mute output signal NO conn)	Threshold	Malfunction is detected in audio signal cir- cuits between TCU and AV control unit	
		Diagnosis delay time	-	
POSSIBLE (• Harness or • TCU • AV control (FAIL-SAFE —	CAUSE connectors unit			F
DTC CONFI	RMATION PROCEDURE			
1.PERFORM	M DTC CONFIRMATION PRO	CEDURE		ŀ
CONSULT 1. Turn igni 2. Select "S 3. Check D Is DTC 11141	tion switch ON. elf Diagnostic Result" mode o TC. 1 detected?	f "TELEMATICS".		
YES >> F NO-1 >> T NO-2 >> C	Proceed to <u>AV-433, "Diagnosis</u> To check malfunction symptom Confirmation after repair: Inspe	Procedure". before repair: Refer to <u>GI-43.</u> ection End.	, "Intermittent Incident".	,
Diagnosis	Procedure		INFOID:000000013024049	ŀ
- Regarding W	iring Diagram information, refe	er to <u>AV-406, "Wiring Diagram</u>	<u>"</u> .	I
1.снеск с	IRCUIT CONTINUITY BETWE	EEN TCU AND AV CONTROL	UNIT	ľ

1. Turn ignition switch OFF.

2. Disconnect TCU connector M197 and AV control unit connector M142.

3. Check continuity between TCU connector M197 and AV control unit connector M142.

T	Continuity	-			
Connector	Connector Terminals		Connector Terminals		0
M107	31	M142	60	Voo	_
101197	32	IVI 142	64	Tes	D

4. Check continuity between TCU connector M197 and ground.

T	CU		Continuity	
Connector	Terminals	Ground		
M197 31			No	

Is the inspection result normal?

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INFOID:000000013024048

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< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK AUDIO SIGNAL

1. Connect TCU connector M197 and AV control unit connector M142.

2. Turn ignition switch ON.

3. Check signal between TCU connector M197 terminals.

TCU conn	ector M197				
Terminal	Terminal	Condition	Reference value		
(+)	(-)				
31	32	When inputting interior sound	(V) 1 0 -1 +2ms SKIB3609E		

Is the inspection result normal?

YES >> Replace TCU. Refer to <u>AV-439</u>, "Removal and Installation".

NO >> Replace AV control unit. Refer to <u>AV-438, "Removal and Installation"</u>.

	POWER SUF	PLY AND GRO	OUND CIRCUIT	
< DTC/CIRCUIT DIA	GNOSIS >		נדנ	ELEMATICS SYSTEM]
POWER SUPP	LY AND GROU	IND CIRCUIT		
Diagnosis Proced	lure			INFOID:000000013024058
-				
Regarding Wiring Diag	aram information. refe	er to AV-406. "Wiring	Diagram".	
	· · ·			
1.CHECK FUSE				
Check that the following	ng fuses are not blow	n.		
 Terminal N	0	Signal name		Fuse No
1		Battery power suppl	v	6 (10A)
2		ACC power supply	, 	25 (5A)
10		Ignition signal		29 (5A)
Are the fuses blown?	I		I	
YES >> Replace the NO >> GO TO 2. 2.CHECK POWER S	ne blown fuse after re	pairing the affected	circuit.	
2. Disconnect TCU c	connector M197.			
3. Check voltage bet	ween TCU connector	M197 and ground.		
TC	CU			Voltage
Connector	Terminal	- Ground	Condition	(Approx.)
	1		Ignition switch: OFF	
M197	2		Ignition switch: ACC	; Battery voltage
	10		Ignition switch: ON	
Is the inspection result	t normal?			
YES >> GO TO 3. NO >> Repair or	replace harness or co	onnectors		
3. CHECK GROUND	CIRCUIT			
1 Turn ignition switc				
2. Check continuity b	between TCU connec	tor M197 and groun	d.	
	тоц			
Connector	Termin	al	Ground	Continuity
Connector	28			
M197	20		-	Yes
Is the inspection result	t normal?			
YES >> Inspection	End.			
NO >> Repair or	replace harness or co	onnectors.		

SYMPTOM DIAGNOSIS TELEMATICS SYSTEM

Symptom Table

INFOID:000000013024059

TELEMATICS SYSTEM

Symptom	Display icon	Error message	Possible cause
		Telematics unit is not connected.	Perform self-diagnosis with CONSULT. Refer to <u>AV-400, "CONSULT Function"</u> .
		The connection to the center failed.	 Check ON/OFF status of TCU using the data monitor of CONSULT. Replace TCU if it is ON. Refer to <u>AV-439</u>. "Removal and Installation". Turn it ON again if it is OFF. Replace TCU if ON is switched to OFF. Refer to <u>AV-439</u>. "Removal and Installation".
	×	No service.	 Use a cellular phone to check reception. If service is available, replace TCU or TEL antenna. For TCU replacement, refer to <u>AV-439</u>, "<u>Removal and Installation</u>". For TEL antenna replacement, refer to <u>AV-441</u>, "<u>Removal and Installation</u>". If the service is not available, move the vehicle to the position where service is available and perform the operation again.
Telematics operation not available.	*	Service inoperative due to poor reception.	 Use a cellular phone to check reception. If it is OK, there may be a cause at the NISSANCON-NECTIONSM Data Center. Check connection after a short period of time. If there is no problem at the NIS-SANCONNECTIONSM Data Center, replace TCU or TEL antenna. For TCU replacement, refer to <u>AV-439</u>. "<u>Removal and Installation</u>". For TEL antenna replacement, refer to <u>AV-441</u>. "<u>Removal and Installation</u>". If it is NG, check connection again after a short period of time.
		Service not registered.	Check input of user ID and password from the naviga- tion setting screen. If malfunction such as input or no memory despite input is detected, replace AV control unit. Refer to <u>AV-438, "Removal and Installation"</u> .
		TCU line is used.	Check connection after a short period of time. Replace TCU if it is frequently displayed. Refer to <u>AV-439</u> . " <u>Removal and Installation</u> ".
		The connection to the center failed.	 There may be a cause at the NISSANCONNECTIONSM Data Center. Check connection after a short period of time. If there is no problem at the NISSANCONNEC- TIONSM Data Center, replace TCU or TEL antenna. For TCU replacement, refer to <u>AV-439</u>, "<u>Removal and Installation</u>". For TEL antenna replacement, refer to <u>AV-441</u>, "<u>Removal and Installation</u>".

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

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INFOID:000000013024060

[TELEMATICS SYSTEM]

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NOTE:

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

Symptom	Possible cause	Possible solution
	A subscription for the CONNECT service has not been established.	Sign up for a subscription to the NISSAN- CONNECT SM service. For details about subscriptions, contact an NISSAN dealer or visit the NISSANCONNECT SM Data Center website.
	The user ID and password are not entered.	Enter the user ID and password.
	The communication line is busy.	Try again after a short period of time.
The system cannot connect to the NISSANCONNECT SM Data Center.	The vehicle is in a location where reception is difficult.	When the vehicle moves to an area where radio waves can be transmitted sufficiently, communication will be restored. When the icon on the display shows that the vehicle is inside the communication area, the sys- tem can be used.
	TCU reception is insufficient.	When the vehicle moves to an area where radio waves can be transmitted sufficiently, communication will be restored. When the icon on the display shows that the vehicle is inside the communication area, the sys- tem can be used.
Some of the items that are dis- played on the menu screen cannot be selected.	The vehicle is being driven and some menu items are	The vehicle is being driven. Stop the vehi- cle in a safe location and apply the parking brake before operating the functions.
Some parts of the screen are not displayed	disabled.	Operate the system after stopping the ve- hicle in a safe location and applying the parking brake.
The system does not announce information.	The volume level is set to the minimum.	Adjust the volume level by operating the VOL switches located on the control panel or on the steering switch while the system is announcing information.

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[TELEMATICS SYSTEM]

< REMOVAL AND INSTALLATION > **REMOVAL AND INSTALLATION** AV CONTROL UNIT

Exploded View

INFOID:000000013024061



- 1. AV control unit
- 4. AV control unit bracket (RH)

Removal and Installation

INFOID:000000013024062

REMOVAL

CAUTION:

Before replacing AV control unit, perform "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT" to save current vehicle specification. Refer to <u>AV-211, "ADDITIONAL SERVICE WHEN REPLAC-</u> **ING AV CONTROL UNIT : Description".**

- Disconnect the negative battery terminal. Refer to <u>PG-174, "Battery Disconnect"</u>.
- 2. Remove cluster lid C. Refer to IP-20, "Removal and Installation".
- Remove the A/C switch assembly. Refer to <u>HAC-117</u>, "Removal and Installation".
- Remove the AV control unit bracket screws, then pull out the AV control unit.
- Disconnect the harness connectors from the AV control unit and remove AV control unit. 5.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After replacing AV control unit, perform "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT" to configure and register AV control unit. Refer to AV-211, "ADDITIONAL SERVICE WHEN **REPLACING AV CONTROL UNIT : Description".**

AV-438

TCU

Removal and Installation

REMOVAL

CAUTION:

Before replacing TCU, perform "SAVE VIN DATA" to save current vehicle specification. For details, refer to AV-414, "Description".

TCU

- Remove body control module. Refer to <u>BCS-79, "Removal and Installation"</u>.
- 2. Disconnect harness connectors from the TCU (1).
- 3. Remove screws (A) from bracket, remove bracket from steering member and remove TCU (1) from bracket (2).



INSTALLATION Installation is in the reverse order of removal. **CAUTION:** After installation, perform activation. Refer to AV-414, "Description".

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INFOID:000000013024063

Revision: March 2016

< REMOVAL AND INSTALLATION >

TELEMATICS SWITCH

Removal and Installation

REMOVAL

- 1. Remove front room/map lamp assembly. Refer to INL-68. "Removal and Installation".
- 2. Disconnect harness connector (A) from telematics switch.
- 3. Release pawls using suitable tool and remove telematics switch (1) from front room/map lamp assembly (2).



INSTALLATION Installation is in the reverse order of removal. [TELEMATICS SYSTEM]

< REMOVAL AND INSTALLATION >

TEL ANTENNA

Removal and Installation

REMOVAL

- 1. Remove instrument panel. Refer to IP-14, "Removal and Installation".
- 2. Remove screw (A) to remove tel antenna (1) from instrument panel.



INSTALLATION

Installation is in the reverse order of removal.

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Revision: March 2016

< REMOVAL AND INSTALLATION >

MICROPHONE

Removal and Installation

REMOVAL

- 1. Remove front room/map lamp assembly. Refer to INL-68, "Removal and Installation".
- 2. Disconnect harness connector from microphone (A).
- 3. Release pawls using suitable tool and remove microphone (1) from front room/map lamp assembly (2).

(]) :Pawl



INSTALLATION Installation is in the reverse order of removal.

< PRECAUTION >

PRECAUTION PRECAUTIONS

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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. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

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

Precaution for Trouble Diagnosis

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 or cables from the negative terminal or terminals before checking the circuit. Refer to <u>PG-174</u>, "<u>Battery Disconnect</u>".

Precaution for Harness Repair

AV COMMUNICATION SYSTEM

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



INFOID:000000013235202

< PRECAUTION >

PRECAUTIONS [REAR SEAT ENTERTAINMENT (RSE) SYSTEM]

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



Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION [REAR SEAT ENTERTAINMENT (RSE) SYSTEM]

PREPARATION PREPARATION

Special Service Tools

INFOID:000000013235205

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

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

Commercial Service Tools

INFOID:000000013235206

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

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COMPONENT PARTS [REAR SEAT ENTERTAINMENT (RSE) SYSTEM]

SYSTEM DESCRIPTION COMPONENT PARTS

Component Parts Location



No.	Component	Function
1.	Headrest display unit (passenger seat)	7-inch color TFT-LCD panel with top loading DVD player and infrared transmitter for wireless headphones.
2.	Rear seat entertainment control unit	Controls the headrest display units.
3.	AV control unit	Refer to AV-171, "AV Control Unit".
4.	AUX in jack	Refer to AV-173, "USB Interface and AUX In Jack".
5.	Headrest display unit (driver seat)	7-inch color TFT-LCD panel with top loading DVD player and infrared transmitter for wireless headphones.

ECU DIAGNOSIS INFORMATION REAR SEAT ENTERTAINMENT SYSTEM

Reference Value

INFOID:000000013209058

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TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description			Condition	Reference value	
+	_	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)	
1 (B)	Ground	Ground		ON	_	0 V	Η
3 (R)	Ground	ACC power supply	Input	ACC	_	Battery voltage	I
4 (Shield)		Audio and video shield (Driver seat)		_	_	_	
5 (Y)	Ground	Video (Driver seat)	_	_	_	_	J
6 (R)	Ground	Audio RH (Driver seat)	_		_	_	K
7 (W)	Ground	Audio LH (Driver seat)		_	_	_	
8 (B)	Ground	Monitor ground (Driver seat)		_	_	_	L
9 (R/W)	Ground	Monitor power (Driver seat)	—	—	_	_	N
10 (Shield)	_	Audio and video shield (Driver seat)	_	_	_	_	IV
11 (Y)	Ground	Video (Driver seat)	_	_	_	_	AV
12 (R)	Ground	Audio RH (Driver seat)	_	_	_	_	
13 (W)	Ground	Audio LH (Driver seat)	_	_	_	_	U
14 (B)	Ground	Monitor SCL (Driver seat)	—	_	_	_	Ρ
15 (R/W)	Ground	Monitor SDA (Driver seat)	_	_	_	_	
16 (R)	—	(Not used)	_	_	_	_	
17 (B/R)	_	(Not used)			_	_	

REAR SEAT ENTERTAINMENT SYSTEM < ECU DIAGNOSIS INFORMATION > [REAR SEAT ENTERTAINMENT (RSE) SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value
+	-	Signal name	Input/ Output	Ignition switch	Operation	(Approx.)
18 (W)	_	(Not used)	_	_	_	_
19 (L)	_	(Not used)	_	_	_	_
21 (R/W)		(Not used)	_		_	_
22 (R/B)	Ground	AUX audio signal LH	Input	ON	AUX audio signal received	(V) 1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
23 (B/W)	Ground	AUX audio signal RH	Input	ON	AUX audio signal received	(V) 1 0 -1 2 ms SKIB3609E
24 (W/B)	_	AUX ground	_	ON	_	0V
25 (Shield)	_	Audio and video shield (Passenger seat)	_		_	_
26 (Y)	Ground	Video (Passenger seat)	_		_	_
27 (R)	Ground	Audio RH (Passenger seat)	_		_	_
28 (W)	Ground	Audio LH (Passenger seat)	_	_	_	_
29 (B)	Ground	Monitor SCL (Passenger seat)	_	_	_	_
30 (R/W)	Ground	Monitor SDA (Passenger seat)	_	_	_	_
31 (Shield)	_	Audio and video shield (Passenger seat)	_	_	_	_
32 (Y)	Ground	Video (Passenger seat)	_	_	_	_
33 (R)	Ground	Audio RH (Passenger seat)	_	_	_	_
34 (W)	Ground	Audio LH (Passenger seat)	_	_	—	_
35 (B)	Ground	Monitor ground (Passenger seat)	_		—	_
36 (R/W)	Ground	Monitor power (Passenger seat)	_	_	—	

REAR SEAT ENTERTAINMENT SYSTEM [REAR SEAT ENTERTAINMENT (RSE) SYSTEM]

WIRING DIAGRAM REAR SEAT ENTERTAINMENT SYSTEM

Wiring Diagram

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Revision: March 2016

TO MAIN HARNESS																					
W	SHIELD	L/R	1	-	Y/B	G	B/R	SHIELD	GR/R	L	L/B	SB	в	L	FG	ж	ВΛ	L/B	W/L	SB	
80J	81J	82J	83J	84J	85J	86J	۲ <i>1</i> 8	88J	89J	06	61J	92J	93.J	94J	95J	96.1	67J	98J	66	100J	

| TO MAIN HARNESS |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| - | G/O | SB | FG | в | - | 7 | ٩ | G/R | LG/B | ß | ٨L | BR | | Г | SB | BR | BG | ΡΛ | Y/GR | ۷ | BR/Y | G/W | | SHIELD | ж | _ | ж | N | R | 0 | ' | SHIELD | 5 | - 100 | MA I | SHIELD | 8 | SHIELD | OL | SHIELD | BB | LVV | | - | - | SHIELD | LG/B | н | SHIELD | GR/B | 8 |
| 28,1 | 29J | 30J | 31J | 32J | 33J | 34J | 35J | 36J | 37J | 38J | 39J | 40J | 41J | 42J | 43J | 44J | 45J | 46J | 47J | 48J | 49J | 50J | 51J | 52J | 53J | 54J | 55J | 56J | 57J | 58J | 59.1 | 601 | F19 | 929 | 64.1 | 65J | 66J | F29 | 68J | 691 | 707 | C117 | 72J | 72J | 73.1 | 74.J | 75J | 76J | L77 | 78.J | C62 |



0	0	0	0	Ø						
83	WIRE TO WIRE	TH16FW-NH	WHITE			8 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9	Signal Name	TO FRONT SEAT LH HARNESS	TO FRONT SEAT LH HARNESS	TO FRONT SEAT LH HARNESS
No.	Name	Type	Color				Color of Wire	1	SHIELD	B/R
Connector	Connector	Connector	Connector	F	H.S.		Terminal No.	-	2	e

Terminal No.	Color of Wire	Signal Name
1	1	TO FRONT SEAT LH HARNE
2	SHIELD	TO FRONT SEAT LH HARNE
ю	B/R	TO FRONT SEAT LH HARNE
4	SHIELD	TO FRONT SEAT LH HARNE
5	Y/B	TO FRONT SEAT LH HARNE
9	LG/B	TO FRONT SEAT LH HARNE
7	IJ	TO FRONT SEAT LH HARNE
8	œ	TO FRONT SEAT LH HARNE
6	ı	TO FRONT SEAT LH HARNE
10	SHIELD	TO FRONT SEAT LH HARNE
11	M	TO FRONT SEAT LH HARNE
12	SHIELD	TO FRONT SEAT LH HARNE
13	GR/B	TO FRONT SEAT LH HARNE
14	GR/R	TO FRONT SEAT LH HARNE
15	8	TO FRONT SEAT LH HARNE
16	L	TO FRONT SEAT LH HARNE

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< WIRING DIAGRAM >

Connector	ON	B102	Connector No.	B149	23A	A/LG	TO MAIN HARNESS	76A	GR/R	TO MAIN HAR
Connector	Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	24A	BRV	TO MAIN HARNESS	77A		TO MAIN HARN
					25A	1	TO MAIN HARNESS	78A	SHIELD	TO MAIN HARNI
Connector	Type	TH24FW-NH	Connector Type	TH80MDGY-CS16-TM4	26A	GR	TO MAIN HARNESS	79A	>	TO MAIN HARNI
Connector	Color	WHITE	Connector Color	GRAY	27A	ГG	TO MAIN HARNESS	80A	-	TO MAIN HARNE
E					28A	LG/B	TO MAIN HARNESS	81A	æ	TO MAIN HARNE
					29A	,	TO MAIN HARNESS	82A	SHIELD	TO MAIN HARNE
H.S.H			E S H		30A	1	TO MAIN HARNESS	83A	LG/B	TO MAIN HARNE
	-	2 3 4 5 6 7 8 9 10 11 12		5A 4A 3A 2A 1A	31A	R/W	TO MAIN HARNESS	84A	R SULLS	TO MAIN HARNE
	13 1	4 15 16 17 18 19 20 21 22 23 24		10A 9A 7A 6A	476	c ÌÌ		WC0	SUIELU	
				21A 20A 19A 18A 17A 18A 15A 14A 13A 12A 11A	334	-	TO MAIN HARNESS	804	GH/B	TO MAIN HARNE
		-		30A 29A 28A 27A 26A 25A 24A 23A 22A	34A 35A	P	TO MAIN HARNESS TO MAIN HARNESS	8/A 88A	2 ×	TO MAIN HARNE TO MAIN HARNE
Terminal	Color o	f Signal Name		41A 40A 38A 38A 37A 36A 35A 34A 33A 32A 31A EAA 40A 47A 46A 47A 46A 47A 46A 44A 24A 47A	36A	8	TO MAIN HARNESS	89A	SHIELD	TO MAIN HARNE
		TO EDONT SEAT DH HADNESS		W7 h	37A		TO MAIN HARNESS	90A	σ	TO MAIN HARNE
- 2	SHIELD	TO FRONT SEAT RH HARNESS		61A 60A 59A 58A 57A 55A 55A 55A 53A 52A 52A 51A 70A 69A 68A 67A 66A 65A 65A 63A 63A 62A	384	R/B	TO MAIN HARNESS	91A	WL	TO MAIN HARNE
6	>	TO FRONT SEAT RH HARNESS		2	39A	G/O	TO MAIN HARNESS	92A	H	TO MAIN HARNE
4	GR/R	TO FRONT SEAT RH HARNESS		81A 80A / 84 / 78 / 78 / 78 / 78 / 58 / 58 / 58 / 58	40A	>	TO MAIN HARNESS	93A	5	TO MAIN HARNE
5	GR/B	TO FRONT SEAT RH HARNESS			41A	SHIELD	TO MAIN HARNESS	94A	2	TO MAIN HARNE
9	-	TO FRONT SEAT RH HARNESS		95A 94A 93A 92A 91A	42A	SHIELU	I O MAIN HARNESS	Ace	Ha	I O MAIN HAHNE
7	8	TO FRONT SEAT RH HARNESS		1004 99A 98A 98A 96A	43A	œ (TO MAIN HARNESS	96A	œ !	TO MAIN HARNE
α	'	TO FRONT SFAT RH HARNESS			44A	σ	TO MAIN HARNESS	97A	P	TO MAIN HARNE
, ,		TO FRONT SEAT BH HABNESS			45A	1	TO MAIN HARNESS	98A	BV	TO MAIN HARNE
Ģ	1	TO EDONT SEAT DH HADNESS			46A	1	TO MAIN HARNESS	99A	νо	TO MAIN HARNE
2	'		T-minel O	-	47A	۲	TO MAIN HARNESS	100A	BR/W	TO MAIN HARNE
= ;	'	TO FRONT SEAL HH HAHNESS	No Mir	or Signal Name	48A	RM	TO MAIN HARNESS			
2 9		TO FROM SEAL HIT MARINESS			49A	R/L	TO MAIN HARNESS			
13	SHIELD	TO FRONT SEAT RH HARNESS	1A SB/	CLIMATE CONTROLLED SEATS)	50A	в	TO MAIN HARNESS			
4			1A SB	TO MAIN HARNESS -(WITH	51A	ı	TO MAIN HARNESS			
0				CLIMATE CONTROLLED SEATS)	52A	1	TO MAIN HARNESS			
<u>0</u>			2A L	TO MAIN HARNESS	53A	ı	TO MAIN HARNESS			
- ;	r (TO FHONI SEAL HH HAHNESS	3A V	TO MAIN HARNESS	54A	1	TO MAIN HARNESS			
8	י ד	TO FRONT SEAL RH HARNESS	4A SB/.	R TO MAIN HARNESS	55A	1	TO MAIN HARNESS			
19	8	TO FRONT SEAT RH HARNESS	5A –	TO MAIN HARNESS	56A	1	TO MAIN HARNESS			
20	SHIELD	TO FRONT SEAT RH HARNESS	6A LG/	Y TO MAIN HARNESS - (WITHOUT	57A	1	TO MAIN HARNESS			
21	SHIELD	TO FRONT SEAT RH HARNESS		CLIMALE CONTROLLED SEALS)	58A	1	TO MAIN HARNESS			
52	-	TO FRONT SEAT RH HARNESS	6A LG	TO MAIN HARNESS -(WITH CLIMATE CONTROLLED SEATS)	59A		TO MAIN HARNESS			
5	: פ	TO FRONT SEAL HH HAHNESS	7A W	TO MAIN HARNESS	60A	G/W	TO MAIN HARNESS			
24	-	IO FHONI SEAL HIT HAHNESS	8A B	TO MAIN HARNESS	61A	1	TO MAIN HARNESS			
			9A L/E	TO MAIN HARNESS	62A	'	TO MAIN HARNESS			
			10A W	TO MAIN HARNESS	63A	1	TO MAIN HARNESS			
			11A LG	TO MAIN HARNESS	64A	-	TO MAIN HARNESS			
			12A BR/	D TO MAIN HARNESS	65A	1	TO MAIN HARNESS			
			13A Y.M	/ TO MAIN HARNESS	66A	-	TO MAIN HARNESS			
			14A R/G	TO MAIN HARNESS	67A	1	TO MAIN HARNESS			
			15A Y/L	TO MAIN HARNESS	68A	1	TO MAIN HARNESS			
			16A 0/1	TO MAIN HARNESS	69A	Y/R	TO MAIN HARNESS			
			17A L	TO MAIN HARNESS	70A	R/G	TO MAIN HARNESS			
			4 V		71A	,	TO MAIN HARNESS			
			18A Y	TO MAIN HARNESS	V01	۵,	TO MAIN LABNESS			
			19A LG	TO MAIN HARNESS	471					
			20A BR/	Y TO MAIN HARNESS	/3A	5	TO MAIN HARNESS			
			21A BG	TO MAIN HARNESS	/44	B/H	TO MAIN HARNESS			
			22A LG/	R TO MAIN HARNESS	Wei	OUIELLU				

REAR SEAT ENTERTAINMENT SYSTEM CONNECTORS

< WIRING DIAGRAM >

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REAR SEAT ENTERTAINMENT SYSTEM

[REAR SEAT ENTERTAINMENT (RSE) SYSTEM]

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REAR SEAT ENTERTAINMENT SYSTEM CONNECTORS



jnal Name	VUDIO SHIELD	P2 VIDEO	2 AUDIO-R	2 AUDIO-L	2 MON SCL	
Sig	P2 A		ď	4	a	
Color of Wire	SHIELD	٨	В	M	В	
Terminal No.	-	2	3	4	5	

B333	HEADREST DISPLAY UNIT (PASSENGER SEAT)	99U8VZ060-SP	BLACK	
Connector No.	Connector Name	Connector Type	Connector Color	F

Signal Name	P1 AUDIO SHIELD	P1 VIDEO	P1 AUDIO-R
Color of Wire	SHIELD	٢	œ
ferminal No.	7	8	6

REAR SEAT ENTERT	AINMENT SYSTEM
I	REAR SEAT ENTERTAINMENT (RSE) SYSTEM]

< WIRING DIAGRAM >

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	:		24G	G/B	TO MAIN HARNESS	72G		15
Connector	No.	E152	25G	RW	TO MAIN HARNESS	73G		I BIR
Connector	Name	WIRE TO WIRE	26G	œ	TO MAIN HARNESS	74G		≥
Connector	Type	TH80MW-CS16-TM4	27G	P	TO MAIN HARNESS	75G		۳ ۳
Connector	Color	WHITE	28G	G/B	TO MAIN HARNESS	76G		Å
f			29G	G/B	TO MAIN HARNESS	776		G
MHAN .			30G	BR/Y	TO MAIN HARNESS	78G		3
S H			31G	٩	TO MAIN HARNESS - (WITH	79G		'
<u>.</u>	L				CUMMINS 5.0L)	808 008		6
		5G 4G 3G 2G 1G	31G	œ	TO MAIN HARNESS - (WITH VK56VD)	81G		-
		106 30 90 70 90	32G	•	TO MAIN HARNESS	82G		æ
		216206196186176166156146136126116	33G	٨٣	TO MAIN HARNESS	83G		-
L		306/296/286/276/286/256/246/236/226	34G	ß	TO MAIN HARNESS	84G	_	-
		416 406 396 386 376 366 356 346 336 326 316	35G	G/R	TO MAIN HARNESS	85G		Ň
		506496486476466456446436426	36G	8	TO MAIN HARNESS	86G		8
		616 606 596 586 576 566 556 546 536 526 516	37G	RW	TO MAIN HARNESS	87G		ž
J		70G 69G 68G 67G 66G 65G 65G 65G 65G 65G	38G	BR	TO MAIN HARNESS	88G		•
		816 806 796 786 776 766 756 746 736 726 716	39G	BR	TO MAIN HARNESS	968		-1
		903896885876866856856856835826	40G	-	TO MAIN HARNESS	906		σ
		95G 94G 93G 92G 91G	41G	R/G	TO MAIN HARNESS	910		G
		100G 99G 98C 97G 96G	42G	0	TO MAIN HARNESS	926		≤la
]	43G	8	TO MAIN HARNESS - (WITH CUMMINS 5.0L)	93G 94G		<u>م</u> م
			43G	σ	TO MAIN HARNESS - (WITH	956		g
				ò		996		3
Terminal	Color	of	44G	Å,	TO MAIN HARNESS	97G		۳
No.	Wire	signal Name	456	<u> </u>	TO MAIN HARNESS	986		Ŵ
1G	σ	TO MAIN HARNESS	476	2 a	TO MAIN HARNESS	966		۳
2G	B/R	TO MAIN HARNESS	48G	. >	TO MAIN HARNESS	1000	(5	В
3G	W/B	TO MAIN HARNESS	49G		TO MAIN HARNESS			
4G	BR/W	TO MAIN HARNESS	50G	B	TO MAIN HARNESS	Conne	ctor N	ö
5G	BB	TO MAIN HARNESS	51G	œ	TO MAIN HARNESS	Conne	ctor N	ame
99	٩.	TO MAIN HARNESS - (WITH VK56VD)	52G	_	TO MAIN HARNESS	Conne	ctor T	/be
66	ΝA	TO MAIN HARNESS - (WITH	53G	×	TO MAIN HARNESS	Conne	ctor C	olor
		CUMMINS 5.0L)	54G	×	TO MAIN HARNESS	f		
7G	>	TO MAIN HARNESS	55G	σ	TO MAIN HARNESS			
86	σ	TO MAIN HARNESS	56G	×	TO MAIN HARNESS	H	a	
56	× 3	TO MAIN HARNESS	57G	> :	TO MAIN HARNESS		5	
110	a di	TO MAIN HARNESS TO MAIN HARNESS	586	3	TO MAIN HARNESS			
126	W/B	TO MAIN HARNESS	500		TO MAIN HAPNESS			
136	BB	TO MAIN HARNESS	919 919	3 a	TO MAIN HARNESS			
14G	Y/B	TO MAIN HARNESS	62G	>	TO MAIN HARNESS	Termi	nal	900
15G	G/W	TO MAIN HARNESS	63G	œ	TO MAIN HARNESS	No.		Š
16G	U	TO MAIN HARNESS	64G	WL	TO MAIN HARNESS	ř		0
17G	G√	TO MAIN HARNESS	65G	W/R	TO MAIN HARNESS	2N		>
18G	G√	TO MAIN HARNESS	66G	BG	TO MAIN HARNESS	3N		3
19G	٨X	TO MAIN HARNESS	67G	BG	TO MAIN HARNESS	4N		>
20G	G∑	TO MAIN HARNESS	68G	m	TO MAIN HARNESS	5N		>
21G	B∕	TO MAIN HARNESS	969	>	TO MAIN HARNESS	89 I		≥.
22G	G/H	TO MAIN HARNESS	70G		TO MAIN HARNESS	N NB	+	2 3
236	H/Y	I U MAIN HAHNESS	716	RW	TO MAIN HARNESS	5	1	-

| TO MAIN HARNESS |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| LW | SHIELD | w | æ | R/G | σ | w | • | æ | _ | ж | | | W/B | B/R | W/B | 4 | L L | σ | Ð | ٨/٧ | BR | σ | σ | M | н | W/B | BR | GR/W |
| 72G | 73G | 74G | 75G | 76G | 77G | 78G | 79G | 80G | 81G | 82G | 83G | 84G | 85G | 86G | 87G | 88G | 89G | 90G | 91G | 92G | 93G | 94G | 95G | 96G | 97G | 98G | 99G | 100G |

W TO MAIN HARNESS	B TO MAIN HARNESS	TO MAIN HARNESS	BR TO MAIN HARNESS	3 GR/W TO MAIN HARNESS	ctor No. M3	ctor Name FUSE BLOCK (J/B)	ctor Type CS06FW-M2	ctor Color WHITE	
96G	97G	98G	99G	100G	Connector	Connector	Connector	Connector	E C

Terminal No. Color of Vire Signal Name 1N 0 ISN 2N W ISN 2N W ISN 3N W ISN 4N V BATTERY 5N W BATTERY 5N V BATTERY 5N L ACCENTY			-	_	_	_		_	_	_
Terminal Color of No. Wire 2N W Wire 3N W W 5N W 5N W 5N W 2N SU M SU M W 2N W		Signal Name	IGN	BATTERY	IGNITION	BATTERY	BATTERY	BATTERY	ACC RELAY OUT	IGNITION
Terminal No. 1N 2N 3N 4N 5N 5N 5N]	Color of Wire	0	w	M	V	۲	w	L	M
		Terminal No.	۱۲	2N	ЗN	4N	SN	6N	NŹ	8N

7N 6N 5N 4N

3N 8N

Revision: March 2016

REAR SEAT ENTERTAINMENT SYSTEM CONNECTORS

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Connector N	ö	M31	27G	
Connector N	ame	WIRE TO WIRE	900	Ϊ
Connector T	vpe	TH80FW-CS16-TM4	30G	′ "
Connector C	olor	WHITE	31G	
			32G	
4444n			33G	ſ
SH			34G	
		16 26 36 46 56	35G	0
		66 76 86 96 106	36G	
			37G	ľ
	=	G 12G 13G 14G 15G 16G 17G 18G 19G 20G 21G	38G	–
L		22G23G24G25G27G28G27G28G29G30G	39G	-
		G 32G 33G 34G 35G 36G 37G 38G 39G 40G 41G	40G	
		42G43G44G45G45G47G48G49G50G	41G	"
	5	G 52C 53C 54C 55C 55C 57C 58C 59C 60C 61C	42G	
		62G63G64G65G66G67G68G69G70G	43G	- I'
	5	G72G73G74G75G76G77G78G79G80G81G	440	-
			46G	
		916 926 936 946 956	47G	
		96G 97G 98G 39G 100G	48G	
]	49G	
			50G	
			51G	
Terminal	Color of	Signal Name	52G	
No.	Wire	0	53G	
1G	σ	TO ENGINE ROOM HARNESS	54G	
2G	B/R	TO ENGINE ROOM HARNESS	55G	
ЗG	M	TO ENGINE ROOM HARNESS	56G	
4G	BR/W	TO ENGINE ROOM HARNESS	57G	
5G	BR	TO ENGINE ROOM HARNESS	58G	
6G	RW	TO ENGINE ROOM HARNESS	59G	
7G	>	TO ENGINE ROOM HARNESS	60G	
8G	σ	TO ENGINE ROOM HARNESS	61G	
96	æ	TO ENGINE ROOM HARNESS	62G	
10G	M	TO ENGINE ROOM HARNESS	63G	
11G	R/G	TO ENGINE ROOM HARNESS	64G	-
12G	W/B	TO ENGINE ROOM HARNESS	696	> ·
13G	BH	TO ENGINE ROOM HARNESS	000 67G	
156	g/M	TO ENGINE ROOM HARNESS	68G	
16G	σ	TO ENGINE ROOM HARNESS	969	
17G	0	TO ENGINE ROOM HARNESS	70G	
18G	GΛ	TO ENGINE ROOM HARNESS	71G	"
19G	٨٨	TO ENGINE ROOM HARNESS	72G	-
20G	GΛ	TO ENGINE ROOM HARNESS	73G	공
21G	ВΛ	TO ENGINE ROOM HARNESS	74G	
22G	G/R	TO ENGINE ROOM HARNESS	75G	
23G	Y/R	TO ENGINE ROOM HARNESS	76G	- ·
24G	G/B	TO ENGINE ROOM HARNESS	780	-
25G	NH C		796	
564	r	TO ENGINE HOUM MAHINESS	>>>	

						_		_											_	_
TO ENGINE ROOM HARNESS																				
œ		œ			M	B/B	M	σ	٩	σ	٩	٨/٧	BR	8	U	œ	œ	W/B	œ	GR/W
80G	81G	82G	83G	84G	85G	86G	87G	88G	89G	90G	91G	92G	93G	94G	95G	96G	97G	98G	996	100G

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Connector No		M36	.4	2A	σ	TO BODY NO. 2 HARNESS	75A	SHIELD	TO BODY NO. 2 HARNESS
		DCM		A N	7	TO BODY NO. 2 HARNESS	76A	æ	TO BODY NO. 2 HARNESS
Connector Né	ame	WIRE TO WIRE		4A	-	TO BODY NO. 2 HARNESS	77A	_	TO BODY NO. 2 HARNESS
Connector Ty	'pe	TH80FDGY-CS16-TM4		5A		TO BODY NO. 2 HARNESS	78A	SHIELD	TO BODY NO. 2 HARNESS
Connector Co	olor	GRAY		6A	GR	TO BODY NO. 2 HARNESS	79A	GR	TO BODY NO. 2 HARNESS
				TA T	LG	TO BODY NO. 2 HARNESS	80A	>	TO BODY NO. 2 HARNESS
1444h				8A	ГG	TO BODY NO. 2 HARNESS	81A	œ	TO BODY NO. 2 HARNESS
ЗН				PA Pa	GR	TO BODY NO. 2 HARNESS	82A	SHIELD	TO BODY NO. 2 HARNESS
5				0A		TO BODY NO. 2 HARNESS	83A	œ	TO BODY NO. 2 HARNESS
		1A 2A 3A 4A 3A		HA A	W/R	TO BODY NO. 2 HARNESS	84A	0	TO BODY NO. 2 HARNESS
		04 /A 0A 3A 10A		2A	G/R	TO BODY NO. 2 HARNESS	85A	SHIELD	TO BODY NO. 2 HARNESS
		11A 12A 13A 14A 15A 16A 17A 18A 19A 20A 21A		BA I		TO BODY NO. 2 HARNESS	86A	~	TO BODY NO. 2 HARNESS
		22A 23A 24A 25A 26A 27A 28A 29A 30A		14A	SHIELD	TO BODY NO. 2 HARNESS	87A	•	TO BODY NO. 2 HARNESS
L	1	314 324 334 344 354 354 374 384 304 406 414		ISA ISA	٩	TO BODY NO. 2 HARNESS	88A	M	TO BODY NO. 2 HARNESS
		42A 43A 44A 45A 46A 46A 47A 48A 48A 49A 50A		t6A		TO BODY NO. 2 HARNESS	89A	SHIELD	TO BODY NO. 2 HARNESS
				17A		TO BODY NO. 2 HARNESS	90A	σ	TO BODY NO. 2 HARNESS
		51A 52A 53A 53A 55A 55A 55A 57A 58A 59A 60A 61A		84	R/B	TO BODY NO. 2 HARNESS	91A	WL	TO BODY NO. 2 HARNESS
		wn / has knool y /s has hnool y the hors has		A0	G/O	TO BODY NO. 2 HARNESS	92A	BB	TO BODY NO. 2 HARNESS
		71A 72A 73A 74A 75A 76A 77A 78A 79A 80A 81A	4	DA NO	>	TO BODY NO. 2 HARNESS	93A	Ŋ	TO BODY NO. 2 HARNESS
		824 834 844 854 854 86 87 8 884 884 884 884 884	4	HA	SHIELD	TO BODY NO. 2 HARNESS	94A	R/L	TO BODY NO. 2 HARNESS
		91A 92A 93A 94A 95A	4	2A	SHIELD	TO BODY NO. 2 HARNESS	95A	BR	TO BODY NO. 2 HARNESS
		96A 97A 98A 99A 100A	4	3A	н	TO BODY NO. 2 HARNESS	96A	н	TO BODY NO. 2 HARNESS
			4	14A	σ	TO BODY NO. 2 HARNESS	97A	ГG	TO BODY NO. 2 HARNESS
			[▼]	5A		TO BODY NO. 2 HARNESS	98A	BV	TO BODY NO. 2 HARNESS
			4	6A		TO BODY NO. 2 HARNESS	99A	OL	TO BODY NO. 2 HARNESS
			4	I7A	¥	TO BODY NO. 2 HARNESS	100A	BR/W	TO BODY NO. 2 HARNESS
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64	BG	TO BODY NO. 2 HARNESS -		5A	,	TO BODY NO. 2 HARNESS			
		(WITH CLIMATE CONTROLLED SFAT)		6A	1	TO BODY NO. 2 HARNESS			
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15A	0	TO BODY NO. 2 HARNESS		A8	,	TO BODY NO. 2 HARNESS			
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18A	>	TO BODY NO. 2 HARNESS		A1		TO BODY NO. 2 HARNESS			
19A	BN	TO BODY NO. 2 HARNESS		24	>	TO BODY NO. 2 HARNESS			
20A	BRV	TO BODY NO. 2 HARNESS		A	: 0	TO RODY NO. 2 HARNESS			
21A	BG	TO BODY NO. 2 HARNESS		4A	M	TO RODY NO. 2 HARNESS			

TEM CONNECTORS REAR SEAT ENTER

< WIRING DIAGRAM >

SYSI					
TAINMENT 5	WIRE	Y-CS16-TM4		24 34 4A 5A 7A 8A 9A 10A	

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27	R/Y TO BODY HARNESS	55J	œ	TO BODY HARNESS	E			29	1	-
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8 6	BR TO BODY HARNESS	62J	י פ	TO BODY HARNESS	ŀ			35	SHIELD	COMP- (WITH AROUND VIEW CAMERA)
10.1	R TO BODY HARNESS	63J	RW	TO BODY HARNESS		Wire	Signal Name	35	RW	COMP- (WITH REAR VIEW
L11	O/B TO BODY HARNESS	64J	LW	TO BODY HARNESS	-	W/S	AMP ON			CAMERA)
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13J	W TO BODY HARNESS	66J	ß	TO BODY HARNESS	ę	M	FR SP LH-	36	œ	COMP+ (WITH REAR VIEW
14.0	Y TO BODY HARNESS	F29	SHIELD	TO BODY HARNESS	4	_	RR SP LH+			CAMERA)
15J	 TO BODY HARNESS 	68J	N	TO BODY HARNESS	5	ВВ	RR SP LH-	37	G/R	IGN
16J	R TO BODY HARNESS	F69	SHIELD	TO BODY HARNESS	9	,	1	38	ГG	M CAN1-L
L71	G TO BODY HARNESS	C07	B/R	TO BODY HARNESS	2	œ	ACC	39	SB	M CAN1-H
18.1	SB TO BODY HARNESS	L17	LW	TO BODY HARNESS	8	_	CAN-H	40	SHIELD	AUX SHIELD
19.1	0 TO BODY HARNESS	72J	1	TO BODY HARNESS	6	-	(+) ILL (+)	41	SHIELD	MIC GND
20J	O/B TO BODY HARNESS	73J	'	TO BODY HARNESS	10	SHIELD	PRE AMP SHIELD	42	œ	MIC VCC(WITHOUT TELEMATICS)
21J	Y TO BODY HARNESS	74J	SHIELD	TO BODY HARNESS	=		FR SP RH+	43	W	MIC SIGNAL
22J	P TO BODY HARNESS	75J	ш	TO BODY HARNESS	12	>	FR SP RH-	44	GR	ILL (-)
23J	W TO BODY HARNESS	76J	0	TO BODY HARNESS	1	BW	BR SP BH+			
24J	W/R TO BODY HARNESS	L77	SHIELD	TO BODY HARNESS	14	٩	RR SP RH-			
25J	P TO BODY HARNESS	78.1	×	TO BODY HARNESS	15		-			
26J	L TO BODY HARNESS	L97	œ	TO BODY HARNESS	16	'	1			
27J	R TO BODY HARNESS	807	M	TO BODY HARNESS	17	٩	CAN-L			



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Termina	I Color of	Signal Name
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5	ГG	M CAN2-L
52	SB	M CAN2-H
23	T	MR OUTPUT
24	1	1
25	1	1
26	1	1
27	1	1
28	G/W	REVERSE SIGNAL
29	-	I
30	v	AUX L
31	GR	AUX GND
32	σ	AUX R
33	ΓM	CAMERA GND
34	-	CAMERA ON
35	SHIELD	COMP- (WITH AROUND VIEW CAMERA)
35	R/W	COMP- (WITH REAR VIEW CAMERA)
36	g	COMP+ (WITH AROUND VIEW CAMERA)
36	æ	COMP+ (WITH REAR VIEW CAMERA)
37	G/R	IGN
38	ГG	M CAN1-L
39	SB	M CAN1-H
40	SHIELD	AUX SHIELD
41	SHIELD	MIC GND
42	R	MIC VCC(WITHOUT TELEMATICS)
43	M	MIC SIGNAL

REAR SEAT ENTERTAINMENT SYSTEM	
[REAR SEAT ENTERTAINMENT (RSE) SYSTE	M]

< WIRING DIAGRAM >

Revision: March 2016

AANIA4979GB



REAR SEAT ENTERTAINMENT SYSTEM [REAR SEAT ENTERTAINMENT (RSE) SYSTEM]

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REAR SEAT ENTERTAINMENT SYSTEM CONNECTORS

SYMPTOM DIAGNOSIS REAR SEAT ENTERTAINMENT SYSTEM

Symptom Table

INFOID:000000013211365



ALNIA1833GB

AV CONTROL UNIT [REAR SEAT ENTERTAINMENT (RSE) SYSTEM]

REMOVAL AND INSTALLATION AV CONTROL UNIT

Exploded View

INFOID:000000013268451

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- 1. AV control unit
- AV control unit bracket (RH) 4

Removal and Installation

INFOID:000000013268452

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REMOVAL

CAUTION:

Before replacing AV control unit, perform "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT" to save current vehicle specification. Refer to AV-110, "ADDITIONAL SERVICE WHEN REPLAC-AV **ING AV CONTROL UNIT : Description".**

- Disconnect battery or batteries. Refer to <u>PG-174, "Battery Disconnect"</u>.
- 2. Remove cluster lid C lower. Refer to IP-17, "CLUSTER LID C LOWER : Removal and Installation".
- Remove A/C switch assembly. Refer to <u>HAC-117, "Removal and Installation"</u>.
- Remove AV control unit bracket screws, then pull out AV control unit.
- Disconnect harness connectors from AV control unit and remove AV control unit. 5.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After replacing AV control unit, perform "ADDITIONAL SERVICE WHEN REPLACING AV CONTROL UNIT" to configure and register AV control unit. Refer to AV-110, "ADDITIONAL SERVICE WHEN **REPLACING AV CONTROL UNIT : Description".**

AV-461

USB INTERFACE AND AUX IN JACK < REMOVAL AND INSTALLATION > [REAR SEAT ENTERTAINMENT (RSE) SYSTEM]

USB INTERFACE AND AUX IN JACK

Exploded View

INFOID:000000013268453



1. Cluster lid C lower

2. USB interface and aux in jack

<⊐ Front

Removal and Installation

INFOID:000000013268454

REMOVAL

- 1. Remove cluster lid C lower. Refer to IP-17. "CLUSTER LID C LOWER : Removal and Installation".
- 2. Disconnect harness connector from USB interface and aux in jack
- 3. Release pawls using suitable tool and remove USB interface and aux in jack.

INSTALLATION

Installation is in the reverse order of removal.

HEADREST DISPLAY UNIT

HEADREST DISPLAY UNIT

Removal and Installation

REMOVAL

- 1. Pull gently at the top of the display unit to release magnets.
- 2. Release headrest display unit lock tab (A) in the direction shown and reposition the headrest display unit (1).

<□ : Front



- 3. Remove screws (A) and reposition headrest display unit (1).
 - : Front

4. Disconnect harness connectors from headrest display unit and remove headrest display unit.

INSTALLATION

Installation is in the reverse order of removal.

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[REAR SEAT ENTERTAINMENT (RSE) SYSTEM]

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< REMOVAL AND INSTALLATION >

REAR SEAT ENTERTAINMENT CONTROL UNIT

Removal and Installation

REMOVAL

- 1. Remove front passenger seat. Refer to <u>SE-100, "Removal and Installation Captain Seats"</u>.
- 2. Disconnect harness connectors from rear seat entertainment control unit.
- 3. Remove bolt and nut, then remove rear seat entertainment control unit.

INSTALLATION

Installation is in the reverse order of removal.