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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Technicians Using Medical Electric

TECHNICIANS USING MEDICAL ELECTRIC INFOID:000000009345665

OPERATION PROHIBITION

WARNING:

- Parts with strong magnet is used in this vehicle.
- Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts.

NORMAL CHARGE PRECAUTION

WARNING:

- If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.
- As radiated electromagnetic wave generated by PDM (Power Delivery Module) at normal charge operation may affect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not approach motor room [PDM (Power Delivery Module)] at the hood-opened condition during normal charge operation.

PRECAUTION AT TELEMATICS SYSTEM OPERATION

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use.

PRECAUTION AT INTELLIGENT KEY SYSTEM OPERATION

WARNING:

Revision: October 2013

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of Intelligent Key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch operation, or at engine starting.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of Intelligent Key might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before Intelligent Key use.

Point to Be Checked Before Starting Maintenance Work

The high voltage system may starts automatically. It is required to check that the timer air conditioner and timer charge (during EVSE connection) are not set before starting maintenance work.

NOTE:

If the timer air conditioner or timer charge (during EVSE connection) is set, the high voltage system starts automatically even when the power switch is in OFF state.

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS

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system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the 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, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
 injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
 Module, see the 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 Airbag Diagnosis Sensor Unit or other Airbag 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 and wait at least three minutes before performing any service.

Precaution for Removing 12V Battery

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Check that EVSE is not connected.

NOTE:

- If EVSE is connected, the air conditioning system may be automatically activated by the timer A/C function.
- 2. Turn the power switch OFF \rightarrow ON \rightarrow OFF. Get out of the vehicle. Close all doors (including back door).
- 3. Check that the charge status indicator lamp does not blink and wait for 5 minutes or more.

NOTE:

- If the battery is removed within 5 minutes after the power switch is turned OFF, plural DTCs may be detected.
- 4. Remove 12V battery within 1 hour after turning the power switch OFF \rightarrow ON \rightarrow OFF.

NOTE:

- The 12V battery automatic charge control may start automatically even when the power switch is in OFF state.
- Once the power switch is turned ON → OFF, the 12V battery automatic charge control does not start for approximately 1 hour.

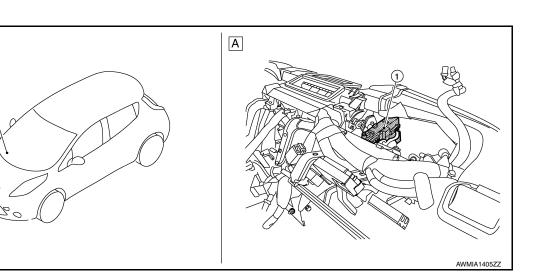
CAUTION:

- After all doors (including back door) are closed, if a door (including back door) is opened before battery terminals are disconnected, start over from Step 1.
- After turning the power switch OFF, if "Remote A/C" is activated by user operation, stop the air conditioner and start over from Step 1.

SYSTEM DESCRIPTION

COMPONENT PARTS
BODY CONTROL SYSTEM

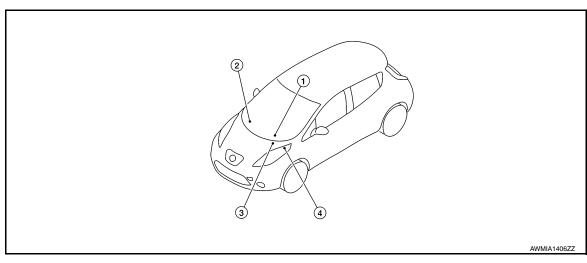
BODY CONTROL SYSTEM: Component Parts Location



- 1. BCM
- A. Behind RH side of instrument panel

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM: Component Parts Location



- Combination meter
 Refer to MWI-6, "METER SYSTEM:
 Component Parts Location".
- 4. IPDM E/R
 Refer to PCS-6, "Component Parts
 Location".
- BCM
 Refer to BCS-5, "BODY CONTROL
 SYSTEM: Component Parts Location".
- Electrically-driven Intelligent Brake unit Refer to <u>TM-32</u>, "Component Parts <u>Location"</u>.

Electrically-driven Intelligent Brake

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SYSTEM BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: System Description

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OUTLINE

- BCM (Body Control Module) controls the various electrical components. It inputs the information required to the control from CAN communication and the signal received from each switch and sensor.
- BCM has combination switch reading function for reading the operation status of combination switches (light, turn signal, wiper and washer) in addition to a function for controlling the operation of various electrical components. It also has the signal transmission function as the passed point of signal and the power saving control function that reduces the power consumption with the power switch OFF.
- BCM is equipped with the diagnosis function that performs the diagnosis with CONSULT and various settings.

BCM CONTROL FUNCTION LIST

System	Reference
Combination switch reading system	BCS-8, "COMBINATION SWITCH READING SYSTEM: System Description"
Signal buffer system	BCS-11, "SIGNAL BUFFER SYSTEM : System Description"
Power consumption control system	BCS-12. "POWER CONSUMPTION CONTROL SYSTEM: System Description"
Headlamp system	EXL-13. "HEADLAMP SYSTEM : System Description"
Auto light system	EXL-14, "AUTO LIGHT SYSTEM (EXCEPT FOR CANADA): System Description"
Daytime running light system	EXL-20, "DAYTIME RUNNING LIGHT SYSTEM : System Description"
Turn signal and hazard warning lamp system	EXL-21, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Description"
Parking, license plate, side marker and tail lamps system	EXL-21, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Description"
Front fog lamp system	EXL-23, "FRONT FOG LAMP SYSTEM : System Description"
Exterior lamp battery saver system	EXL-25, "EXTERIOR LAMP BATTERY SAVER SYSTEM: System Description"
Interior room lamp control system	INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM: System Description"
Interior room lamp battery saver system	INL-9, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM: System Description"
Front wiper and washer system	WW-8, "FRONT WIPER AND WASHER SYSTEM: System Description"
Rear wiper and washer system	WW-11, "REAR WIPER AND WASHER SYSTEM : System Description"
Warning chime system	WCS-6, "WARNING CHIME SYSTEM: System Description"
Power door lock system	DLK-22, "System Description"
Intelligent Key system	DLK-24, "INTELLIGENT KEY SYSTEM : System Description"
Back door opener system	DLK-35, "System Description"
Nissan Vehicle Immobilizer System (NVIS) - NATS	SEC-15. "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS: System Description"
Vehicle security system	SEC-18. "VEHICLE SECURITY SYSTEM: System Description (Except for Canada)" SEC-21. "VEHICLE SECURITY SYSTEM: System Description (For Canada)"
Rear window defogger system	DEF-7, "System Description"

SYSTEM

< SYSTEM DESCRIPTION >

System	Reference
Power window system [Retained accessory power (RAP function)]	PWC-7, "System Description"
Tire pressure monitoring system	WT-10. "System Description"

BODY CONTROL SYSTEM: Fail-safe

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FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

Display contents of CONSULT	Fail-safe	Cancellation
B2192: ID DISCORD BCM-ECM*	Inhibit setting the vehi- cle to READY	Erase DTC
B2193: CHAIN OF BCM-ECM*	Inhibit setting the vehi- cle to READY	Erase DTC
B2195: ANTI-SCANNING	Inhibit setting the vehi- cle to READY	Power switch ON → OFF
B2196: DONGLE NG	Inhibit setting the vehi- cle to READY	Erase DTC
B2198: IMMOBI ANT NG	Inhibit setting the vehi- cle to READY	Erase DTC
B261E: FUEL MIS CONFIG	Inhibit setting the vehi- cle to READY	When the VCM status signal is normally received from VCM.
B26F1: IGN RELAY OFF STUCK	Inhibit setting the vehi- cle to READY	When the following conditions are fulfilled • Power switch ON signal (CAN: Transmitted from BCM): ON • Power switch ON signal (CAN: Transmitted from IPDM E/R): ON
B26F2: IGN RELAY ON STUCK	Inhibit setting the vehi- cle to READY	When the following conditions are fulfilled • Power switch ON signal (CAN: Transmitted from BCM): OFF • Power switch ON signal (CAN: Transmitted from IPDM E/R): OFF
B26F7: LF DRIVER COMMUNI- CATION	Inhibit setting the vehi- cle to READY	When inside key antennas function normally
U0415: VDC CAN CIRC2	Inhibit setting the vehi- cle to READY	When vehicle speed signal (Meter) (CAN) is received normally

^{*: &}quot;ECM" is indicated on CONSULT display, however this means VCM on this vehicle.

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

- 1. More than 1 minute is passed after the rear wiper stop.
- 2. Turn rear wiper switch OFF.
- Operate the rear wiper switch or rear washer switch.

FAIL-SAFE CONTROL OF COMBINATION SWITCH READING FUNCTION CAUSED BY LOW POWER SUPPLY VOLTAGE

If voltage of battery power supply lower, BCM maintains combination switch reading to the status when input voltage is less than approximately 9 V.

NOTE

When voltage of battery power supply is approximately 9 V or more, combination switch reading function returns to normal operation.

COMBINATION SWITCH READING SYSTEM

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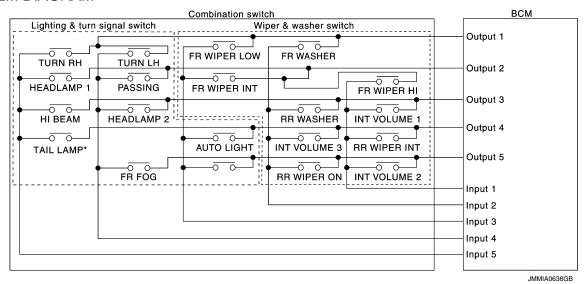
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COMBINATION SWITCH READING SYSTEM: System Description

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SYSTEM DIAGRAM



NOTE:

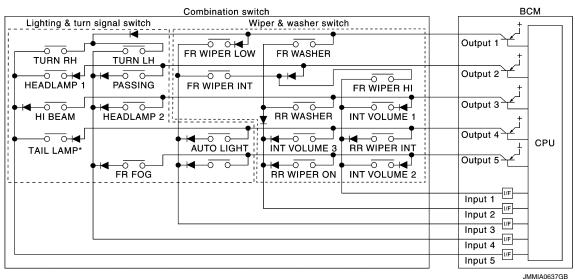
*: TAIL LAMP switch links lighting switch 1ST and 2ND positions.

OUTLINE

- BCM reads the status of the combination switch (light, turn signal, wiper and washer) and recognizes the status of each switch.
- BCM has a combination of 5 output terminals (OUTPUT 1 5) and 5 input terminals (INPUT 1 5). It reads a maximum of 20 switch status.

COMBINATION SWITCH MATRIX

Combination switch circuit



NOTE:

*: TAIL LAMP switch links lighting switch 1ST and 2ND positions.

Combination switch INPUT-OUTPUT system list

System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
OUTPUT 1	_	FR WASHER	FR WIPER LOW	TURN LH	TURN RH
OUTPUT 2	FR WIPER HI	_	FR WIPER INT	PASSING	HEADLAMP 1
OUTPUT 3	INT VOLUME 1	RR WASHER	_	HEADLAMP 2	HI BEAM

< SYSTEM DESCRIPTION >

System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
OUTPUT 4	RR WIPER INT	INT VOLUME 3	AUTO LIGHT	_	TAIL LAMP
OUTPUT 5	INT VOLUME 2	RR WIPER ON	_	FR FOG	_

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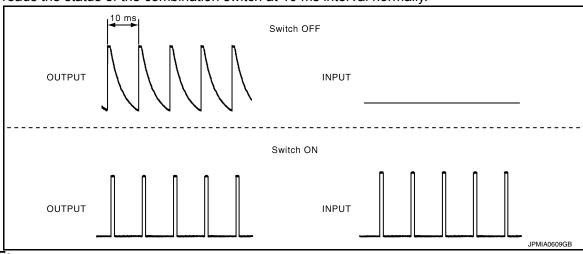
NOTE:

Headlamp has a dual system switch.

COMBINATION SWITCH READING FUNCTION

Description

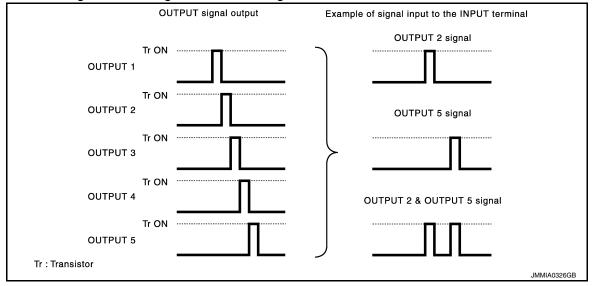
• BCM reads the status of the combination switch at 10 ms interval normally.



NOTE:

BCM reads the status of the combination switch at 60 ms interval when BCM is controlled at low power consumption control mode.

- BCM operates as follows and judges the status of the combination switch.
- It operates the transistor on OUTPUT side in the following order: OUTPUT 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5, and outputs voltage waveform.
- The voltage waveform of OUTPUT corresponding to the formed circuit is input into the interface on INPUT side if any (1 or more) switches are ON.
- It reads this change of the voltage as the status signal of the combination switch.

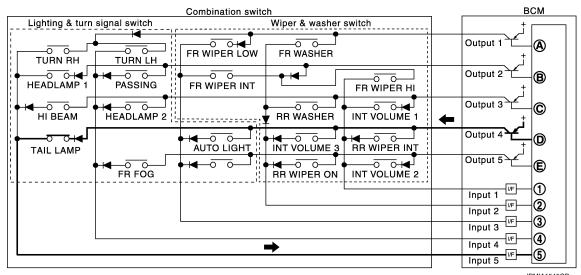


Operation Example

In the following operation example, the combination of the status signals of the combination switch is replaced as follows: INPUT 1 - 5 to "1 - 5" and OUTPUT 1 - 5 to "A - E".

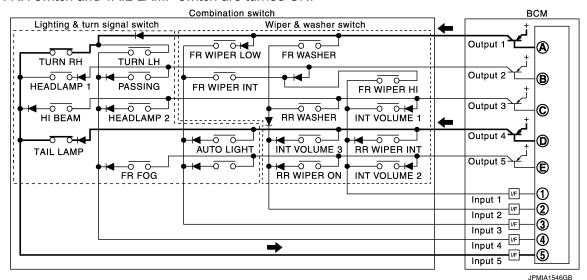
Example 1: When a switch (TAIL LAMP switch) is turned ON

• The circuit between OUTPUT 4 and INPUT 5 is formed when the TAIL LAMP switch is turned ON.



- BCM detects the combination switch status signal "5D" when the signal of OUTPUT 4 is input to INPUT 5.
- BCM judges that the TAIL LAMP switch is ON when the signal "5D" is detected.

Example 2: When some switches (TURN RH switch, TAIL LAMP switch) are turned ON
• The circuits between OUTPUT 1 and INPUT 5 and between OUTPUT 4 and INPUT 5 are formed when the TURN RH switch and TAIL LAMP switch are turned ON.



- BCM detects the combination switch status signal "5AD" when the signals of OUTPUT 1 and OUTPUT 4 are input to INPUT 5.
- BCM judges that the TURN RH switch and TAIL LAMP switch are ON when the signal "5AD" is detected.

WIPER VOLUME DIAL POSITION

BCM judges the wiper volume dial 1 - 7 by the status of INT VOLUME 1, 2 and 3 switches.

Wiper intermittent		Switch status	
dial position	INT VOLUME 1	INT VOLUME 2	INT VOLUME 3
1	ON	ON	ON
2	ON	ON	OFF
3	ON	OFF	OFF
4	OFF	OFF	OFF
5	OFF	OFF	ON

SYSTEM

< SYSTEM DESCRIPTION >

Wiper intermittent		Switch status	
dial position	INT VOLUME 1	INT VOLUME 2	INT VOLUME 3
6	OFF	ON	ON
7	OFF	ON	OFF

NOTE:

For details of wiper volume dial position, refer to WW-8. "FRONT WIPER AND WASHER SYSTEM: System Description".

SIGNAL BUFFER SYSTEM

SIGNAL BUFFER SYSTEM : System Description

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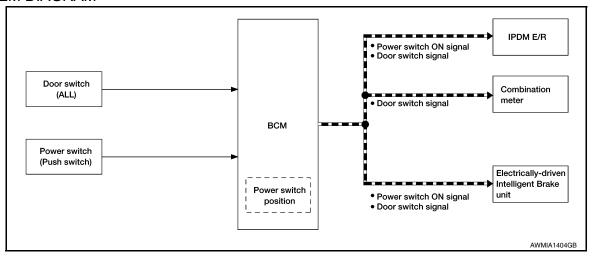
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SYSTEM DIAGRAM



OUTLINE

BCM has the signal transmission function that outputs/transmits each input/received signal to each unit.

Signal transmission function list

Signal name	Input	Output	Description
Power switch ON signal	Power switch (push switch)	IPDM E/R (CAN) Electrically-driven Intelligent Brake unit (CAN)	Inputs the power switch (push switch) signal and transmits the power switch position status judged with BCM via CAN communication.
Door switch signal	Any door switch	Combination meter (CAN) IPDM E/R (CAN) Electrically-driven Intelligent Brake unit (CAN)	Inputs the door switch signal and transmits it via CAN communication.

POWER CONSUMPTION CONTROL SYSTEM

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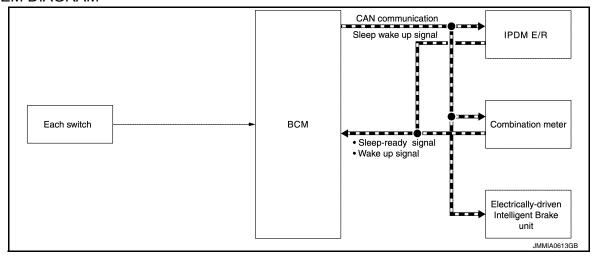
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POWER CONSUMPTION CONTROL SYSTEM: System Description

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SYSTEM DIAGRAM



OUTLINE

- BCM incorporates a power saving control function that reduces the power consumption according to the vehicle status.
- BCM switches the status (control mode) by itself with the power saving control function. It performs the sleep request to each unit (IPDM E/R, combination meter and Electrically-driven Intelligent Brake unit) that operates with the power switch OFF.

Normal mode (wake-up)

- CAN communication is normally performed with other units
- Each control with BCM is operating properly

CAN communication sleep mode (CAN sleep)

- CAN transmission is stopped
- Control with BCM only is operating

Low power consumption mode (BCM sleep)

- Low power consumption control is active
- CAN transmission is stopped

LOW POWER CONSUMPTION CONTROL WITH BCM

BCM reduces the power consumption with the following operation in the low power consumption mode.

• The reading interval of the each switches changes from 10 ms interval to 60 ms interval.

Sleep mode activation

- BCM receives the sleep-ready signal (ready) from IPDM E/R and combination meter via CAN communication
- BCM transmits the sleep wake up signal (sleep) to each unit when all of the CAN sleep conditions are fulfilled.
- Each unit stops the transmission of CAN communication with the sleep wake up signal. BCM is in CAN communication sleep mode.
- BCM is in the low power consumption mode and perform the low power consumption control when all of the BCM sleep conditions are fulfilled with CAN sleep condition.

SYSTEM

< SYSTEM DESCRIPTION >

Sleep condition		
CAN sleep condition	BCM sleep condition	\wedge
Receiving the sleep-ready signal (ready) from all units I minute after turning power switch OFF Theft warning alarm and panic alarm: Not operation Warning chime: Not operation Intelligent Key system buzzer: Not operation Stop lamp switch: OFF Turn signal indicator lamp: Not operation Exterior lamp: OFF Door lock status: No change CONSULT communication status: Not communication Meter display signal: Non-transmission Door switch status: No change Driver door lock status: No change	 Interior room lamp battery saver: Time out* RAP system: Not operation Nissan Vehicle Immobilizer System (NVIS) - NATS: Not operation Remote keyless entry receiver communication status: No communication Tire pressurer monitoring system (TPMS): Stop ACC/ON indicator lamp: Not operation 	C
OTE:	·	Е
	SYSTEM: System Description" for details of the interior room lamp bat-	
ery saver time.	tor dotallo of the interior rectin tamp but	
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		F
/ake-up operation		(
	each unit when any condition listed below is established,	
and then goes into normal mode from low power of		
Pach linit starts transmissions with CAN comminu		
mit wake up signals to DCM with CAN sommunion	cation by receiving sleep wake up signals. Each unit trans-	-
mit wake up signals to BCM with CAN communica	cation by receiving sleep wake up signals. Each unit trans- ition to convey the start of CAN communication.	-
mit wake up signals to BCM with CAN communica	ation to convey the start of CAN communication.	ŀ
mit wake up signals to BCM with CAN communica //ake-up condition	cation by receiving sleep wake up signals. Each unit trans- tion to convey the start of CAN communication.	F
mit wake up signals to BCM with CAN communicated with condition Wake-up condition Wake Receiving the sleep-ready signal (Not-ready) from any units	ation to convey the start of CAN communication.	ŀ
mit wake up signals to BCM with CAN communicated with communicated with the communicate	ation to convey the start of CAN communication.	ŀ
mit wake up signals to BCM with CAN communicated with communicated with the condition wake-up condition wake • Receiving the sleep-ready signal (Not-ready) from any units • Power switch (push switch): OFF→ ON • Hazard switch: ON	ation to convey the start of CAN communication.	ŀ
mit wake up signals to BCM with CAN communicated wake-up condition Wake Receiving the sleep-ready signal (Not-ready) from any units Power switch (push switch): OFF→ ON Hazard switch: ON HI BEAM switch: OFF → ON, ON → OFF	ation to convey the start of CAN communication.	1
mit wake up signals to BCM with CAN communicated Make-up condition Wake Receiving the sleep-ready signal (Not-ready) from any units Power switch (push switch): OFF→ ON Hazard switch: ON HI BEAM switch: OFF → ON, ON → OFF PASSING switch: OFF → ON, ON → OFF	ation to convey the start of CAN communication.	
mit wake up signals to BCM with CAN communicated Make-up condition Wake Receiving the sleep-ready signal (Not-ready) from any units Power switch (push switch): OFF→ ON Hazard switch: ON HI BEAM switch: OFF → ON, ON → OFF PASSING switch: OFF → ON, ON → OFF	ation to convey the start of CAN communication.	
mit wake up signals to BCM with CAN communication wake-up condition Wake Receiving the sleep-ready signal (Not-ready) from any units Power switch (push switch): OFF \rightarrow ON Hazard switch: ON HI BEAM switch: OFF \rightarrow ON, ON \rightarrow OFF PASSING switch: OFF \rightarrow ON, ON \rightarrow OFF HEADLAMP 1 switch: OFF \rightarrow ON, ON \rightarrow OFF	ation to convey the start of CAN communication.	
mit wake up signals to BCM with CAN communicated with the condition wake- *Receiving the sleep-ready signal (Not-ready) from any units *Power switch (push switch): OFF→ ON *Hazard switch: ON *HI BEAM switch: OFF→ ON, ON→ OFF *PASSING switch: OFF→ ON, ON→ OFF *HEADLAMP 1 switch: OFF→ ON, ON→ OFF *HEADLAMP 2 switch: OFF→ ON, ON→ OFF *TAIL LAMP switch: OFF→ ON *FR FOG switch: OFF→ ON, ON→ OFF	ation to convey the start of CAN communication.	
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mit wake up signals to BCM with CAN communical wake-up condition **Receiving the sleep-ready signal (Not-ready) from any units **Power switch (push switch): OFF→ ON **Hazard switch: ON **HI BEAM switch: OFF → ON, ON → OFF **PASSING switch: OFF → ON, ON → OFF **HEADLAMP 1 switch: OFF → ON, ON → OFF **HEADLAMP 2 switch: OFF → ON, ON → OFF **TAIL LAMP switch: OFF → ON **FR FOG switch: OFF → ON, ON → OFF **TURN RH: OFF → ON, ON → OFF **TURN LH: OFF → ON, ON → OFF **Driver door switch: OFF → ON, ON → OFF **Passenger door switch: OFF → ON, ON → OFF **Rear RH door switch: OFF → ON, ON → OFF **Rear RH door switch: OFF → ON, ON → OFF **Passenger door request switch: OFF → ON **Passenger door request switch: OFF → ON **Passenger door request switch: OFF → ON **Back door opener switch: OFF → ON **Back door opener switch: OFF → ON **Stop lamp switch: ON	ation to convey the start of CAN communication. e-up condition L → UNLOCK	В

Revision: October 2013 BCS-13 2013 LEAF

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000008744126

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	 The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

				Direct D	Diagnosti	c Mode		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Trunk open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

DOOR LOCK

< SYSTEM DESCRIPTION >

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000008744127

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SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW-DR [On/Off]	Indicates condition of door request switch LH.
REQ SW-AS [On/Off]	Indicates condition of door request switch RH.
REQ SW-BD/TR [On/Off]	Indicates condition of back door request switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLK/DR UNLK/AS UNLK/OTR ULK].

WORK SUPPORT

Support Item	Setting	Description	
DOOD LOOK LINE OOK OFT	On*	Selective unlock function ON.	l/
DOOR LOCK-UNLOCK SET	Off	Selective unlock function OFF.	1/
	Lock/Unlock*	Automatic door lock and unlock functions ON.	
AUTOMATIC LOCK/UNLOCK SE-	Lock Only	Automatic door lock only function ON.	L
LECT	Unlock Only	Automatic door unlock only function ON.	
	Off	Automatic door lock function OFF.	DOO
AUTOMATIC DOOR LOCK SELECT	P RANGE	Doors lock automatically when shifted out of P (park).	BCS
	VH SPD	Doors lock automatically when vehicle speed is greater than 24 km/h (15 mph).	
	MODE6	This mode is not used.	Ν
	MODE5	This mode is not used.	
AUTOMATIC DOOR UNLOCK SE- LECT	MODE4	Driver door is unlocked automatically when shifted into P (park).	
	MODE3	Driver door is unlocked automatically when ignition is switched from ON to OFF.	0
	MODE2	All doors unlock automatically when shifted into P (park).	
	MODE1*	All doors unlock automatically when ignition is switched from ON to OFF.	Р

^{*:} Initial setting

REAR DEFOGGER

REAR DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

INFOID:0000000008744128

DATA MONITOR

BCS-15 Revision: October 2013 2013 LEAF

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of power switch.
REAR DEF SW [On/Off]	Indicates condition of rear window defogger switch.

ACTIVE TEST

Test Item	Description
REAR DEFOGGER	This test is able to check rear window defogger operation [Off/On].

BUZZER

BUZZER: CONSULT Function (BCM - BUZZER)

INFOID:0000000008744129

DATA MONITOR

Monitor Item [Unit]	Description
PUSH -SW [On/Off]	Indicates condition of power switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.
TAIL LAMP SW [On/Off]	Indicates condition of combination switch.
FR FOG SW [On/Off]	Indicates condition of front fog lamp switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.

ACTIVE TEST

Test Item	Description
ID REGIST WARNING	This test is able to check TPMS transmitter ID regist warning chime operation [On/Off].
SEAT BELT WARN TEST	This test is able to check seat belt warning chime operation [On/Off].
LIGHT WARN ALM	This test is able to check light warning chime operation [On/Off].

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000008744130

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
PUSH -SW [On/Off]	Indicates condition of power switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.

Monitor Item [Unit]	Description			
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.			
RKE-UNLOCK [On/Off]	Indicates condition of nock signal from Intelligent Key.			
ACTIVE TEST	marcatoo	5011411.011 011	anosk signal nom mongork roy.	
TOTIVE TEOT				
Test Item			Description	
INT LAMP	This test is	This test is able to check interior room lamp operation [On/Off].		
VORK SUPPORT				
Support Item	Se	etting	Description	
D. I MID TIMED I COLO CET	MODE2		Interior room lamp timer activates from driver door switch only	
R LAMP TIMER LOGIC SET	MODE1*		Interior room lamp timer activates from any door switch.	
SET I/I D LINII OV INTOON	On*		Interior room lamp timer function ON.	
SET I/L D-UNLCK INTCON	Off		Interior room lamp timer function OFF.	
	MODE4	30 sec.		
ROOM LAMP TIMER SET	MODE3*	15 sec.	Interior room lamp timer ON time.	
	MODE2	7.5 sec.		
HEADLAMP HEADLAMP : CONSULT F DATA MONITOR	unction (BCM - H	HEAD LAMP)	
HEADLAMP : CONSULT F	unction (BCM - H		
HEADLAMP : CONSULT F DATA MONITOR Monitor Item [Unit]	,		Description	
HEADLAMP: CONSULT F DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off]	Indicates	condition of p	Description power switch.	
HEADLAMP: CONSULT F DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run]	Indicates of Indicates	condition of pengine status	Description power switch. s received from ECM on CAN communication line.	
HEADLAMP: CONSULT F DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off]	Indicates of Indicates	condition of pengine status	Description power switch.	
HEADLAMP: CONSULT F DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h]	Indicates of Indicates	condition of pengine status	Description power switch. s received from ECM on CAN communication line.	
HEADLAMP: CONSULT F DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off]	Indicates of Indicates	condition of pengine status	Description power switch. s received from ECM on CAN communication line.	
HEADLAMP: CONSULT F DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off]	Indicates of Indicates of	condition of pengine status	Description power switch. s received from ECM on CAN communication line.	
HEADLAMP: CONSULT F DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off]	Indicates of Indic	condition of pengine status	Description power switch. s received from ECM on CAN communication line.	
Monitor Item [Unit] Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off]	Indicates of Indic	condition of pengine status	Description power switch. s received from ECM on CAN communication line. d signal received from ABS on CAN communication line.	
Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW 1 [On/Off]	Indicates of Indic	condition of pengine status	Description power switch. s received from ECM on CAN communication line. d signal received from ABS on CAN communication line.	
Monitor Item [Unit] Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW 2 [On/Off]	Indicates of Indic	condition of pengine status	Description power switch. s received from ECM on CAN communication line. d signal received from ABS on CAN communication line.	
Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW 1 [On/Off] HEAD LAMP SW 2 [On/Off] PASSING SW [On/Off]	Indicates of Indic	condition of pengine status	Description power switch. s received from ECM on CAN communication line. d signal received from ABS on CAN communication line.	
Monitor Item [Unit] Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW 1 [On/Off] PASSING SW [On/Off] AUTO LIGHT SW [On/Off]	Indicates of Indic	condition of pengine status vehicle spee	Description power switch. s received from ECM on CAN communication line. d signal received from ABS on CAN communication line.	
Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW 1 [On/Off] HEAD LAMP SW 2 [On/Off] PASSING SW [On/Off] AUTO LIGHT SW [On/Off] FR FOG SW [On/Off]	Indicates of Indic	condition of pengine status vehicle spee	Description power switch. s received from ECM on CAN communication line. d signal received from ABS on CAN communication line.	
Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW 1 [On/Off] HEAD LAMP SW 2 [On/Off] PASSING SW [On/Off] AUTO LIGHT SW [On/Off] DOOR SW-DR [On/Off]	Indicates of Indic	condition of pengine status vehicle spee	Description power switch. s received from ECM on CAN communication line. d signal received from ABS on CAN communication line. combination switch.	
Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW 2 [On/Off] PASSING SW [On/Off] AUTO LIGHT SW [On/Off] FR FOG SW [On/Off] DOOR SW-AS [On/Off]	Indicates of Indic	condition of pengine status vehicle speed condition of the condition of th	Description power switch. s received from ECM on CAN communication line. d signal received from ABS on CAN communication line. combination switch.	
Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW 1 [On/Off] HEAD LAMP SW 2 [On/Off] PASSING SW [On/Off] AUTO LIGHT SW [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off]	Indicates of Indic	condition of pengine status vehicle speed condition of the condition of th	Description power switch. s received from ECM on CAN communication line. d signal received from ABS on CAN communication line. combination switch. front door switch LH. front door switch RH. rear door switch RH.	

ACTIVE TEST

OPTI SEN (FILT) [V]

Indicates outside brightness voltage signal from optical sensor filtered by BCM.

< SYSTEM DESCRIPTION >

Test Item	Description
FR FOG LAMP	This test is able to check front fog lamp operation [On/Off].
DAYTIME RUNNING LIGHT	This test is able to check daytime running lamp operation [On/Off].
ILL DIM SIGNAL	This test is able to check head lamp illumination dimming operation [On/Off].

WORK SUPPORT

Support Item	Setting		Description	
	MODE6			
	MODE5		Autolamp function OFF.	
	MODE4			
AUTO LIGHT LOGIC SET	MODE3		Autolamp function ON at twilight.	
	MODE2		Autolamp function ON at twilight or with wiper LO and HI operation.	
	MODE1*		Autolamp function ON at twilight or with wiper INT, LO and HI operation.	
BATTERY SAVER SET	Off		Exterior lamp battery saver function OFF.	
BATTERT SAVER SET	On*		Exterior lamp battery saver function ON.	
	MODE4		Less sensitive than normal setting (turns ON later).	
CUSTOM A/LIGHT SETTING	MODE3		More sensitive than MODE2.	
COSTON A/LIGHT SETTING	MODE2		More sensitive than normal setting (turns ON earlier).	
	MODE1*		Normal setting.	
	MODE 8	180 sec.		
	MODE 7	150 sec.		
	MODE 6	120 sec.		
III DELAV CET	MODE 4	90 sec.	Autoloma dolay timor operation timo	
ILL DELAY SET	MODE 5	60 sec.	Autolamp delay timer operation time.	
	MODE 3	30 sec.		
	MODE 2	OFF		
	MODE 1* 45 sec.			

^{*:} Initial setting

WIPER

WIPER: CONSULT Function - WIPER

INFOID:0000000008744132

DATA MONITOR

Monitor Item [Unit]	Description		
PUSH SW [On/Off]	Indicates condition of power switch.		
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.		
FR WIPER HI [On/Off]			
FR WIPER LOW [On/Off]	Indicates condition of winer energtion of combination quiteb		
FR WASHER SW [On/Off]	Indicates condition of wiper operation of combination switch.		
FR WIPER INT [On/Off]			
FR WIPER STOP [On/Off]	Indicates front wiper auto stop signal received from IPDM E/R on CAN communication line.		
INT VOLUME [1 – 7]	Indicates condition of intermittent wiper operation of combination switch.		

Monitor Item [Unit]		Description		
RR WIPER ON [On/Off]				
RR WIPER INT [On/Off]	Indicates	Indicates condition of rear wiper operation of combination switch.		
RR WASHER SW [On/Off]				
RR WIPER STOP [On/Off]	Indicates	Indicates rear wiper auto stop input from rear wiper motor.		
ACTIVE TEST	<u>'</u>			
Test Item		Description		
FR WIPER	This test is	s able to check front wiper operation [Hi/Lo/INT/Off].		
RR WIPER	This test is	s able to check rear wiper operation [On/Off].		
WORK SUPPORT				
Support Item	Setting	Description		
обружно	Off*	Front wiper intermittent time linked with wiper dial position.		
WIPER SPEED SETTING	On			
	unction (b)	CM - FLASHER) INFOID:00000000874413:		
DATA MONITOR	TUTICUOTI (B	CM - FLASHER)		
	Turiction (B	CM - FLASHER) Description		
DATA MONITOR				
DATA MONITOR Monitor Item [Unit]	Indicates	Description		
DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off]	Indicates Indicates	Description condition of door request switch LH.		
Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off]	Indicates Indicates Indicates	Description condition of door request switch LH. condition of door request switch RH. condition of power switch.		
Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off]	Indicates Indicates Indicates	Description condition of door request switch LH. condition of door request switch RH.		
Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] TURN SIGNAL R [On/Off]	Indicates Indicates Indicates Indicates	Description condition of door request switch LH. condition of door request switch RH. condition of power switch.		
Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off]	Indicates Indicates Indicates Indicates Indicates	Description condition of door request switch LH. condition of door request switch RH. condition of power switch. condition of turn signal function of combination switch.		
Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off]	Indicates Indicates Indicates Indicates Indicates Indicates Indicates	Description condition of door request switch LH. condition of door request switch RH. condition of power switch. condition of turn signal function of combination switch. condition of hazard switch.		
Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off]	Indicates Indicates Indicates Indicates Indicates Indicates Indicates Indicates	Description condition of door request switch LH. condition of door request switch RH. condition of power switch. condition of turn signal function of combination switch. condition of hazard switch. condition of lock signal from Intelligent Key.		
Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off]	Indicates Indicates Indicates Indicates Indicates Indicates Indicates Indicates	Description condition of door request switch LH. condition of door request switch RH. condition of power switch. condition of turn signal function of combination switch. condition of hazard switch. condition of lock signal from Intelligent Key. condition of unlock signal from Intelligent Key.		
Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-PANIC [On/Off]	Indicates Indicates Indicates Indicates Indicates Indicates Indicates Indicates	Description condition of door request switch LH. condition of door request switch RH. condition of power switch. condition of turn signal function of combination switch. condition of hazard switch. condition of lock signal from Intelligent Key. condition of unlock signal from Intelligent Key.		

Test Item	Description
FLASHER	This test is able to check turn signal lamp operation [Off/LH/RH].

WORK SUPPORT

Support Item	Setting	Description
	Lock/Unlock	Hazard warning lamp answer back for LOCK and UNLOCK with request switch or Intelligent Key.
HAZARD ANSWER BACK	Unlock Only	Hazard warning lamp answer back for UNLOCK only with request switch or Intelligent Key.
	Lock Only	Hazard warning lamp answer back for LOCK only with request switch or Intelligent Key.
	Off	Hazard warning lamp answer back OFF.

AIR CONDITIONER

BCS-19 Revision: October 2013 2013 LEAF

< SYSTEM DESCRIPTION >

AIR CONDITIONER : CONSULT Function (BCM - AIR CONDITIONER)

INFOID:0000000009344711

DATA MONITOR

Monitor Item [Unit]	Description		
FAN ON SIG [On/Off]	Indicates condition of fan switch.		
AIR COND SW [On/Off]	Indicates condition of A/C switch.		

ACTIVE TEST

Test Item	Description
A/C INDICATOR	This test is able to check A/C indicator operation [Off/On].

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:000000000874413

SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Main	Description
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	×	Indicates condition of back door request switch.
PUSH SW [On/Off]		Indicates condition of power switch.
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch.
BRAKE SW 2 [On/Off]		Indicates condition of brake switch.
DETE/CANCL SW [On/Off]	×	Indicates condition of P (park) position.
SFT PN/N SW [On/Off]	×	Indicates condition of P (park) or N (neutral) position.
UNLK SEN -DR [On/Off]	×	Indicates condition of door unlock sensor.
PUSH SW -IPDM [On/Off]		Indicates condition of power switch received from IPDM E/R on CAN communication line.
IGN RLY1 -F/B [On/Off]		Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line.
DETE SW -IPDM [On/Off]		Indicates condition of detent switch received from TCM on CAN communication line.
SFT P -MET [On/Off]		Indicates condition of P (park) position from TCM on CAN communication line.
SFT N -MET [On/Off]		Indicates condition of N (neutral) position from IPDM E/R on CAN communication line.
ENGINE STATE [Stop/Start/Crank/Run]	×	Indicates condition of engine state from ECM on CAN communication line.
VEH SPEED 1 [mph/km/h]	×	Indicates condition of vehicle speed signal received from ABS on CAN communication line.
VEH SPEED 2 [mph/km/h]	×	Indicates condition of vehicle speed signal received from combination meter on CAN communication line.
DOOR STAT -DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.
DOOR STAT -AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating the Intelligent Key, the numerical value starts changing.

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Main	Description
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.

ACTIVE TEST

Test Item		Description		
INSIDE BUZZER	This test is Key].	This test is able to check combination meter warning chime operation [Off/Take Out/Knob/Key].		
	B&P N			
	B&P I	This test is able to check combination meter traction motor start information.		
	ID NG	This test is able to check combination meter key ID warning information.		
	ROTAT			
	SFT P	This item is displayed, but is not used.		
LCD	INSRT			
	BATT	This test is able to check combination meter Intelligent Key low battery warning information.		
	NO KY	KY This item is displayed, but is not used.		
	OUTKEY	KEY This test is able to check combination meter take away warning information.		
	LK WN	This test is able to check combination meter OFF position warning information.		
	Off	_		
BATTERY SAVER	This test is	This test is able to check interior room lamp battery saver operation [Off/On].		
ENGINE SW ILLUMI	This test is	This test is able to check power switch illumination operation [Off/On].		
PUSH SWITCH INDICATOR	This test is	This test is able to check power switch ACC/ON indicator operation [Off/On].		
TRUNK/BACK DOOR	This test is	This test is able to check back door opener actuator operation [Open].		
INT LAMP	This test is	This test is able to check interior room lamp operation [Off/On].		
INDICATOR	This test is	This test is able to check combination meter warning lamp operation [Off/KEY ON/KEY IND].		
FLASHER	This test is	This test is able to check security hazard lamp operation [RH/LH/Off].		
OUTSIDE BUZZER	This test is	This test is able to check Intelligent Key warning buzzer operation [On/Off].		
HORN	This test is	This test is able to check horn operation [On].		

WORK SUPPORT

Support Item	Setting	Description
LOCK/INLOCK BY LKEY	On*	Door lock/unlock function from request switch ON.
LOCK/UNLOCK BY I-KEY	Off	Door lock/unlock function from request switch OFF.
ANTI KEY LOCK IN-FUNCTI	On*	Key reminder function ON.
	Off	Key reminder function OFF.
ANS BACK I-KEY UNLOCK	On*	Buzzer reminder function when doors are unlocked with request switch ON.
	Off	Buzzer reminder function when doors are unlocked with request switch OFF.
ANS BACK I-KEY LOCK	Horn Chirp	Horn chirp reminder function when doors are locked with request switch.
	Buzzer*	Buzzer reminder function when doors are locked with request switch.
	Off	No reminder function when doors are locked with request switch.

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< SYSTEM DESCRIPTION >

Support Item	Se	tting	Description
HORN WITH KEYLESS LOCK	On*		Horn reminder function when doors are locked with Intelligent Key ON.
HORN WITH RETLESS LOCK	Off		Horn reminder function when doors are locked with Intelligent Key OFF.
LOCK/UNLOCK BY I-KEY	On*		Door lock/unlock function from request switch ON.
LOCK ONLOCK BY I-KEY	Off		Door lock/unlock function from request switch OFF.
	Lock/Unloc	ck*	Horn reminder function when doors are locked or unlocked with request switch or Intelligent Key.
HAZARD ANSWER BACK	Unlock On	ıly	Horn reminder function when doors are unlocked with request switch or Intelligent Key.
HAZARD ANSWER BACK	Lock Only		Horn reminder function when doors are locked with request switch or Intelligent Key.
	Off		Horn reminder function when doors are locked or unlocked with request switch or Intelligent Key OFF.
INSIDE ANT DIAGNOSIS	-	_	This function allows inside key antenna self-diagnosis.
	MEMORY	1	Intelligent Key ID code can be checked.
	MEMORY	2	
CONFIRM KEY FOB ID	MEMORY	3	
	MEMORY	4	
	NON REG	IST	
	MODE 3	1.5 sec.	
PANIC ALARM SET	MODE 2	OFF	Panic alarm button set time on Intelligent Key can be set.
	MODE 1*	0.5 sec.	
ENGINE START BY I-KEY	On*		READY set function ON.
ENGINE START BY I-RET	GINE START BY I-KEY Off		READY set function OFF.
	MODE7	5 min.	
	MODE6	4 min.	
	MODE5	3 min.	
AUTO LOCK SET	MODE4	2 min.	Auto door lock time can be set.
	MODE3*	1 min.	
	MODE2	30 sec.	
	MODE1	OFF	

^{*:} Initial Setting

COMB SW

COMB SW: CONSULT Function (BCM - COMB SW)

INFOID:0000000008744135

DATA MONITOR

Monitor Item [Unit]	Description
FR WIPER HI [On/Off]	
FR WIPER LOW [On/Off]	Indicates condition of wiper operation of combination switch.
FR WASHER SW [On/Off]	
FR WIPER INT [On/Off]	
INT VOLUME [1 - 7]	Indicates condition of intermittent wiper operation of combination switch.

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Monitor Item [Unit]		Description				
RR WIPER ON [On/Off]						
RR WIPER INT [On/Off]	Indicates co	ondition of rear wiper operation of combination switch.				
RR WASHER SW [On/Off]						
TURN SIGNAL R [On/Off]	Indicates co	Indicates condition of right turn signal operation of combination switch.				
TURN SIGNAL L [On/Off]	Indicates co	Indicates condition of left turn signal operation of combination switch.				
TAIL LAMP SW [On/Off]	Indicates co	ondition of tail lamp switch operation of combination switch.				
HI BEAM SW [On/Off]	Indicates co	ondition of Hi beam switch operation of combination switch.				
HEAD LAMP SW 1 [On/Off]	Indicates co	ondition of head lamp switch 1 operation of combination switch.				
HEAD LAMP SW 2 [On/Off]	Indicates co	ondition of head lamp switch 2 operation of combination switch.				
PASSING SW [On/Off]	Indicates co	ondition of passing switch operation of combination switch.				
AUTO LIGHT SW [On/Off]	Indicates co	ondition of auto light switch operation of combination switch.				
FR FOG SW [On/Off]	Indicates co	ondition of front fog lamp switch operation of combination switch.				
3CM	•					
	antina (DON	A DOM				
BCM : CONSULT Fur	iction (BCI	VI - BCIVI)	14136			
CU IDENTIFICATION						
The BCM part number is dis	splayed.					
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SELE DIAGNOSTIC RES	SI II T					
Refer to BCS-48, "DTC Inc						
Refer to BCS-48, "DTC Inc						
Refer to BCS-48, "DTC Inc		Description				
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item	<u>lex"</u> .	Description Returns BCM to initial value in factory shipment.	_			
Refer to <u>BCS-48, "DTC_Inc</u> WORK SUPPORT	Setting	·	_			
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE	Setting Reset	Returns BCM to initial value in factory shipment.	<u>-</u> 			
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION	Setting Reset Cancel	Returns BCM to initial value in factory shipment. Cancels the reset function.	 			
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIG	Setting Reset Cancel	Returns BCM to initial value in factory shipment. Cancels the reset function.	- 			
Refer to BCS-48, "DTC Inc VORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIGURATION Refer to LAN-13, "CAN Dia	Setting Reset Cancel GURATION (BC	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description".	<u>-</u>			
Refer to BCS-48, "DTC Inc VORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIGURATION Refer to LAN-13, "CAN Dia	Setting Reset Cancel GURATION (BC	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description".	<u> </u>			
Refer to BCS-48, "DTC Inc VORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIGURATION Refer to LAN-13, "CAN Dia MMU	Setting Reset Cancel GURATION (BC) NTR gnostic Suppo	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description".				
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIGURATION Refer to LAN-13, "CAN Dia MMU	Setting Reset Cancel GURATION (BC) NTR gnostic Suppo	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description".	44137			
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIG CAN DIAG SUPPORT M Refer to LAN-13, "CAN Dia MMU MMU: CONSULT FU	Setting Reset Cancel SURATION (BC NTR gnostic Suppo	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description".	44137			
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIGURATION Refer to LAN-13, "CAN Dia MMU MMU: CONSULT FU SELF DIAGNOSTIC RES	Setting Reset Cancel GURATION (BC) NTR gnostic Suppo	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description".	44137			
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIGURATION Refer to LAN-13, "CAN Dia MMU MMU: CONSULT FU SELF DIAGNOSTIC RES Refer to BCS-48, "DTC Inc	Setting Reset Cancel GURATION (BC) NTR gnostic Suppo	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description".	14137 B			
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIG CAN DIAG SUPPORT M Refer to LAN-13, "CAN Dia MMU MMU : CONSULT FU SELF DIAGNOSTIC RES Refer to BCS-48, "DTC Inc	Setting Reset Cancel GURATION (BC) NTR gnostic Suppo	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description".	14137 B			
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIG CAN DIAG SUPPORT M Refer to LAN-13, "CAN Dia MMU MMU : CONSULT FU SELF DIAGNOSTIC RES Refer to BCS-48, "DTC Inc	Setting Reset Cancel GURATION (BC) NTR gnostic Suppo	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description".	14137 B			
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIG CAN DIAG SUPPORT M Refer to LAN-13, "CAN Dia MMU MMU : CONSULT FU SELF DIAGNOSTIC RES Refer to BCS-48, "DTC Inc DATA MONITOR	Setting Reset Cancel GURATION (BC) NTR gnostic Suppo	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description". ort Monitor".	14137 B			
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIGURATION Refer to LAN-13, "CAN Dia MMU MMU: CONSULT FU SELF DIAGNOSTIC RES Refer to BCS-48, "DTC Inc DATA MONITOR	Setting Reset Cancel GURATION (BC) NTR gnostic Suppo	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description". ort Monitor".	14137 B			
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIG CAN DIAG SUPPORT M Refer to LAN-13, "CAN Dia MMU MMU : CONSULT FU SELF DIAGNOSTIC RES Refer to BCS-48, "DTC Inc DATA MONITOR Monitor Item [Unit] CONFRM ID ALL [Yet/DONE]	Setting Reset Cancel GURATION (BC NTR gnostic Suppo	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description". ort Monitor".	14137 E			
Refer to BCS-48, "DTC Inc WORK SUPPORT Support Item RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIGURATION Refer to LAN-13, "CAN Dia MMU MMU: CONSULT FU SELF DIAGNOSTIC RES Refer to BCS-48, "DTC Inc DATA MONITOR Monitor Item [Unit] CONFIRM ID ALL [Yet/DONE]	Setting Reset Cancel GURATION (BC NTR gnostic Suppo	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description". Ort Monitor". CM - IMMU) Description	14137 B			
RESET SETTING VALUE CONFIGURATION Refer to BCS-74, "CONFIG CAN DIAG SUPPORT M Refer to LAN-13, "CAN Dia MMU MMU: CONSULT FU SELF DIAGNOSTIC RES Refer to BCS-48, "DTC Ind DATA MONITOR Monitor Item [Unit] CONFRM ID ALL [Yet/DONE] CONFIRM ID4 [Yet/DONE]	Setting Reset Cancel GURATION (BC NTR gnostic Suppo	Returns BCM to initial value in factory shipment. Cancels the reset function. CM): Description". Ort Monitor". CM - IMMU) Description	14137 B			

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
TP 4 [Yet/DONE]	
TP 3 [Yet/DONE]	DONE indicates the number of Intelligent Key ID that has been registered.
TP 2 [Yet/DONE]	
TP 1 [Yet/DONE]	
PUSH SW [On/Off]	Indicates condition of power switch.

ACTIVE TEST

Test Item	Description
THEFT IND	This test is able to check security indicator operation [Off/On.

WORK SUPPORT

Service item	Description
CONFIRM DONGLE ID	Checks that dongle unit is applied to the vehicle.

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000008744138

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
PUSH SW [On/Off]	Indicates condition power switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check battery saver operation [Off/On].

WORK SUPPORT

Support item	Setting		Description
	MODE3	15 min.	
ROOM LAMP TIMER SET	MODE2	60 min.	Interior room lamp battery saver timer operating time.
	MODE1*	30 min.	

< SYSTEM DESCRIPTION >

Support item	Setting	Description
BATTERY SAVER SET	On*	Exterior lamp battery saver function ON.
BATTERT SAVER SET	Off	Exterior lamp battery saver function OFF.

*:Initial setting

TRUNK

TRUNK: CONSULT Function (BCM - TRUNK)

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DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of power switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.
TR/BD OPEN SW [On/Off]	Indicates condition of back door opener switch.

THEFT ALM

THEFT ALM: CONSULT Function (BCM - THEFT)

INFOID:0000000008744140

DATA MONITOR

Monitored Item	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	Indicates condition of back door request switch.
PUSH SW [On/Off]	Indicates condition of power switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
TR/BD OPEN SW [On/Off]	Indicates condition of back door opener switch.
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.

ACTIVE TEST

Test Item	Description
VEHICLE SECURITY HORN	This test is able to check vehicle security horn operation [On].
FLASHER	This test is able to check turn signal lamp operation [RH/LH/Off].
THEFT IND	This test is able to check security indicator lamp operation [Off/On].
HEADLAMP(HI)	This test is able to check vehicle security lamp operation [On].

WORK SUPPORT

< SYSTEM DESCRIPTION >

Support Item	Setting	Description
THEFT ALM TRG	Off/On	The switch that triggered vehicle security alarm is recorded [On].
THEFT ALM TING	CLEAR	Trigger data can be erased.
SECURITY ALARM SET	On	Security alarm ON.
SECONTI ALARMISET	Off	Security alarm OFF.

RETAINED POWER

RETAINED POWER: CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000008744141

DATA MONITOR

Monitor Item [Unit]	Description
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.

SIGNAL BUFFER

SIGNAL BUFFER: CONSULT Function (BCM - SIGNAL BUFFER)

INFOID:0000000008744142

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of the power switch.

AIR PRESSURE MONITOR

AIR PRESSURE MONITOR: CONSULT Function (BCM - AIR PRESSURE MONITOR)

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Activate and display TPMS transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

SELF DIAGNOSTIC RESULT

NOTE:

Before performing Self Diagnostic Result, be sure to register the transmitter ID or the actual malfunction may be different from that displayed on CONSULT.

Refer to BCS-48, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
AIR PRESS FL [kPa, kg/cm ² or Psi]	Indicates air pressure of front LH tire.
AIR PRESS FR [kPa, kg/cm ² or Psi]	Indicates air pressure of front RH tire.
AIR PRESS RR [kPa, kg/cm ² or Psi]	Indicates air pressure of rear RH tire.
AIR PRESS RL [kPa, kg/cm ² or Psi]	Indicates air pressure of rear LH tire.
ID REGST FL1 [Done/Yet]	Indicates ID registration status of front LH transmitter.
ID REGST FR1 [Done/Yet]	Indicates ID registration status of front RH transmitter.

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description	
ID REGST RR1 [Done/Yet]	Indicates ID registration status of rear RH transmitter.	
ID REGST RL1 [Done/Yet]	Indicates ID registration status of rear LH transmitter.	
WARNING LAMP [Off/On]	Indicates condition of low tire pressure warning lamp in combination meter.	

ACTIVE TEST

Test Item	Description	
HORN	This test is able to check horn operation [On].	
FLASHER This test is able to check turn signal lamp operation [RH/LH/Off].		
WARNING LAMP	This test is able to check tire pressure warning lamp operation [Off/On].	

WORK SUPPORT

Support Item	Description	
ID READ	Registered ID number of the wheel transmitters is displayed.	
ID REGIST	Wheel transmitter ID registration procedure. Refer to WT-25. "Description".	

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ECU DIAGNOSIS INFORMATION

BCM

Reference Value

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- · Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- · Confirm vehicle Intelligent Key antenna signal strength

VALUES ON THE DIAGNOSIS TOOL

AIR COND SW A/C switch OFF A/C switch OFF A/C switch ON AIR PRESS FL Front left tire air pressure value AIR PRESS FL Front right tire air pressure value AIR PRESS RR Front right tire air pressure value AIR PRESS RR AIR PRESS RR Rear left tire air pressure value AIR PRESS RR AIR PRESS RR Rear right tire air pressure value AIR PRESS RR AUTO LIGHT SW Lighting switch OFF Lighting switch OFF Lighting switch AUTO On BRAKE SW 1 When the brake pedal is released On When the brake pedal is depressed Off BRAKE SW2 Brake pedal released Off Brake pedal released On On On CDL LOCK SW Door lock/unlock switch does not operate Off Press door lock/unlock switch to the LOCK side On CDL UNLOCK SW Door lock/unlock switch to the UNLOCK side On CONFRM ID ALL The key ID does not match any key ID registered to BCM. The key ID matches any key ID registered to BCM. CONFIRM ID3 The key ID does not match the fourth key ID registered to BCM. The key ID matches the fourth key ID registered to BCM. The key ID matches the fourth key ID registered to BCM. The key ID does not match the flow BCM. The key ID matches the fourth key ID registered to BCM. The key ID does not match the third key ID registered to BCM. The key ID does not match the flow BCM. The key ID matches the fourth key ID registered to BCM. The key ID does not match the third key ID registered to BCM. The key ID does not match the third key ID registered to BCM. The key ID does not match the third key ID registered to BCM. The key ID does not match the second key ID registered to BCM. The key ID does not match the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID does not match the first key	Monitor Item	Condition	Value/Status
A/C switch ON AIR PRESS FL Front left titre air pressure value AIR PRESS FR Front right tire air pressure value AIR PRESS FR Front right tire air pressure value AIR PRESS RL AIR PRESS RR Rear left tire air pressure value AIR PRESS RR Rear right tire air pressure value AUTO LIGHT SW Lighting switch OFF Lighting switch OFF Lighting switch AUTO On When the brake pedal is released On When the brake pedal is depressed Off Brake SW2 Brake pedal released On On On On On On On On On O	AID COND SW	A/C switch OFF	Off
AIR PRESS FR Front right tire air pressure value AIR PRESS RL Rear left tire air pressure value AIR PRESS RR Rear right tire air pressure value AUTO LIGHT SW Lighting switch OFF Lighting switch AUTO BRAKE SW 1 BRAKE SW 1 BRAKE SW 2 Brake pedal released CDL LOCK SW Door lock/unlock switch does not operate Press door lock/unlock switch to the LOCK side CONFIRM ID ALL CONFIRM ID 4 The key ID does not match the fourth key ID registered to BCM. The key ID matches the first key ID registered to BCM. CONFIRM ID 1 The key ID does not match the second key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first	AII COND SW	A/C switch ON	On
AIR PRESS RL Rear left tire air pressure value AIR PRESS RR Rear right tire air pressure value AUTO LIGHT SW Lighting switch OFF Lighting switch AUTO On When the brake pedal is released Off BRAKE SW 1 BRAKE SW 2 Brake pedal released On On On On On BRAKE SW 2 CDL LOCK SW Door lock/unlock switch does not operate Press door lock/unlock switch to the LOCK side On On CONFRM ID ALL CONFIRM ID ALL The key ID does not match the fourth key ID registered to BCM. The key ID does not match the sind key ID registered to BCM. The key ID does not match the sind key ID registered to BCM. The key ID does not match the sound key ID registered to BCM. The key ID does not match the fourth key ID registered to BCM. The key ID does not match the fourth key ID registered to BCM. The key ID does not match the fourth key ID registered to BCM. The key ID does not match the hird key ID registered to BCM. The key ID does not match the fourth key ID registered to BCM. The key ID does not match the hird key ID registered to BCM. The key ID does not match the second key ID registered to BCM. The key ID does not match the second key ID registered to BCM. The key ID does not match the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID does not match the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID reg	AIR PRESS FL	Front left tire air pressure value	kPa, kg/cm ² , psi
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AUTO LIGHT SW Lighting switch OFF Lighting switch AUTO On	AIR PRESS RL	Rear left tire air pressure value	kPa, kg/cm ² , psi
Lighting switch AUTO Display to the properties of the key ID registered to BCM. CONFIRM ID3 CONFIRM ID3 CONFIRM ID2 CONFIRM ID1 CONFIRM ID1 CONFIRM ID1 CONFIRM ID2 CONFIRM ID1 CONFIRM ID2 The key ID does not match the third key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the fourth sey ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID	AIR PRESS RR	Rear right tire air pressure value	kPa, kg/cm ² , psi
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BRAKE SW2 Brake pedal released Off Brake pedal released On Door lock/unlock switch does not operate Off Press door lock/unlock switch to the LOCK side On Door lock/unlock switch does not operate Off Press door lock/unlock switch does not operate Off Press door lock/unlock switch to the LOCK side On Door lock/unlock switch does not operate Off Press door lock/unlock switch to the UNLOCK side On The key ID does not match any key ID registered to BCM. Yet The key ID matches any key ID registered to BCM. The key ID does not match the fourth key ID registered to BCM. The key ID matches the fourth key ID registered to BCM. The key ID does not match the third key ID registered to BCM. The key ID does not match the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID does not match the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. OONE The key ID does not match the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. OONE The key ID matches the first key ID registered to BCM. OONE When selector lever is in P position Off When selector lever is in any position other than P On When selector lever is in P position	AOTO EIGITI SW	Lighting switch AUTO	On
When the brake pedal is depressed Off Brake pedal released Off Brake pedal depressed On CDL LOCK SW Door lock/unlock switch does not operate Off Press door lock/unlock switch to the LOCK side On CDL UNLOCK SW Door lock/unlock switch does not operate Off Press door lock/unlock switch does not operate Off The key ID does not match any key ID registered to BCM. Yet The key ID matches any key ID registered to BCM. DONE CONFIRM ID4 The key ID does not match the fourth key ID registered to BCM. Yet The key ID matches the fourth key ID registered to BCM. Yet The key ID does not match the third key ID registered to BCM. DONE CONFIRM ID3 The key ID does not match the second key ID registered to BCM. Yet The key ID matches the second key ID registered to BCM. DONE CONFIRM ID1 The key ID does not match the first key ID registered to BCM. DONE CONFIRM ID1 The key ID matches the first key ID registered to BCM. DONE The key ID matches the first key ID registered to BCM. DONE The key ID matches the first key ID registered to BCM. DONE The key ID matches the first key ID registered to BCM. DONE DETE SW -IPDM When selector lever is in P position Off When selector lever is in P position Off	RDAKE SW 1	When the brake pedal is released	On
BRAKE SW2 Brake pedal depressed On Door lock/unlock switch does not operate Press door lock/unlock switch to the LOCK side On Door lock/unlock switch does not operate Off Press door lock/unlock switch to the LOCK side On Door lock/unlock switch does not operate Off Press door lock/unlock switch to the UNLOCK side On The key ID does not match any key ID registered to BCM. The key ID matches any key ID registered to BCM. The key ID does not match the fourth key ID registered to BCM. The key ID matches the fourth key ID registered to BCM. ONE The key ID does not match the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID does not match the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID registered to BCM. ONE The key ID matches the first key ID regi	DIVAILE OW I	When the brake pedal is depressed	Off
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Press door lock/unlock switch to the UNLOCK side CONFRM ID ALL The key ID does not match any key ID registered to BCM. The key ID matches any key ID registered to BCM. The key ID does not match the fourth key ID registered to BCM. The key ID matches the fourth key ID registered to BCM. The key ID matches the fourth key ID registered to BCM. The key ID does not match the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. DONE The key ID does not match the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID does not match the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. OONE When selector lever is in P position Off When selector lever is in P position Off When selector lever is in P position Off	CDL TINI OCK SW	Door lock/unlock switch does not operate	Off
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The key ID matches any key ID registered to BCM. CONFIRM ID4 The key ID does not match the fourth key ID registered to BCM. The key ID matches the fourth key ID registered to BCM. DONE The key ID does not match the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID does not match the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID does not match the first key ID registered to BCM. The key ID does not match the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. DONE The key ID matches the first key ID registered to BCM. ONE When selector lever is in P position Off When selector lever is in any position other than P On When selector lever is in P position Off	CONEDM ID ALL	The key ID does not match any key ID registered to BCM.	Yet
CONFIRM ID4 The key ID matches the fourth key ID registered to BCM. The key ID does not match the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID does not match the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID does not match the first key ID registered to BCM. The key ID does not match the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. DONE When selector lever is in P position Off When selector lever is in any position other than P On When selector lever is in P position Off	CONTRIVID ALL	The key ID matches any key ID registered to BCM.	DONE
The key ID matches the fourth key ID registered to BCM. The key ID does not match the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID matches the third key ID registered to BCM. The key ID does not match the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID does not match the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. ONE When selector lever is in P position Off When selector lever is in any position other than P On When selector lever is in P position Off	CONFIDM ID4	The key ID does not match the fourth key ID registered to BCM.	Yet
CONFIRM ID3 The key ID matches the third key ID registered to BCM. The key ID does not match the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID does not match the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. DONE When selector lever is in P position Off When selector lever is in any position other than P On When selector lever is in P position Off	CONTINUID4	The key ID matches the fourth key ID registered to BCM.	DONE
The key ID matches the third key ID registered to BCM. CONFIRM ID2 The key ID does not match the second key ID registered to BCM. The key ID matches the second key ID registered to BCM. The key ID does not match the first key ID registered to BCM. The key ID does not match the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. DONE When selector lever is in P position Off When selector lever is in any position other than P On When selector lever is in P position Off	CONFIDM ID3	The key ID does not match the third key ID registered to BCM.	Yet
CONFIRM ID2 The key ID matches the second key ID registered to BCM. The key ID does not match the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. DONE When selector lever is in P position DETE/CANCL SW The key ID matches the first key ID registered to BCM. Off When selector lever is in P position Off When selector lever is in any position other than P Off Off	COM INWIDS	The key ID matches the third key ID registered to BCM.	DONE
The key ID matches the second key ID registered to BCM. CONFIRM ID1 The key ID does not match the first key ID registered to BCM. The key ID matches the first key ID registered to BCM. DONE When selector lever is in P position Off When selector lever is in any position other than P On When selector lever is in P position Off	CONFIDM ID2	The key ID does not match the second key ID registered to BCM.	Yet
CONFIRM ID1 The key ID matches the first key ID registered to BCM. DETE SW -IPDM When selector lever is in P position When selector lever is in any position other than P On When selector lever is in P position Off Off	CONTINUIDZ	The key ID matches the second key ID registered to BCM.	DONE
The key ID matches the first key ID registered to BCM. DETE SW -IPDM When selector lever is in P position When selector lever is in any position other than P On When selector lever is in P position Off Off	CONFIDM ID1	The key ID does not match the first key ID registered to BCM.	Yet
DETE SW -IPDM When selector lever is in any position other than P On DETE/CANCL SW Off	CONTINUE	The key ID matches the first key ID registered to BCM.	DONE
When selector lever is in any position other than P On DETE/CANCL SW When selector lever is in P position Off	DETE SW JPDM	When selector lever is in P position	Off
DETE/CANCL SW	DETECTOR -IF DIVI	When selector lever is in any position other than P	On
When selector lever is in any position other than P On	DETE/CANCL SW	When selector lever is in P position	Off
	DETE/OANOE OW	When selector lever is in any position other than P	On

Monitor Item	Condition	Value/Status	
	Passenger door LOCK status	LOCK	F
DOOR STAT-AS	Passenger door UNLOCK status	UNLK	
	Wait with selective UNLOCK operation (5 seconds)	READY	E
	Driver door LOCK status	LOCK	
DOOR STAT-DR	Driver door UNLOCK status	UNLK	
	Wait with selective UNLOCK operation (5 seconds)	READY	
DOOR SW-AS	Front door RH closed	Off	
DOOK SW-AS	Front door RH opened	On	
DOOD OW DK	Back door closed	Off	
DOOR SW-BK	Back door opened	On	
D00D 0W DD	Front door LH closed	Off	E
DOOR SW-DR	Front door LH opened	On	
	Rear door LH closed	Off	
DOOR SW-RL	Rear door LH opened	On	l
DOOD 014/ DC	Rear door RH closed	Off	
DOOR SW-RR	Rear door RH opened	On	
	Engine stopped	Stop	
	While the engine stalls	Stall	
ENGINE STATE	At engine cranking	Crank	
	Engine running	Run	
	Blower motor fan switch OFF	Off	
FAN ON SIG	Blower motor fan switch ON	On	
	Front fog lamp switch OFF	Off	
FR FOG SW	Front fog lamp switch ON	On	
	Front washer switch OFF	Off	
FR WASHER SW	Front washer switch ON	On	
	Front wiper switch OFF	Off	
FR WIPER LOW	Front wiper switch LO	On	
	Front wiper switch OFF	Off	
FR WIPER HI	Front wiper switch HI	On	
	Front wiper switch OFF	Off	
FR WIPER INT	Front wiper switch INT	On	B
	Any position other than front wiper stop position	Off	_
FR WIPER STOP	Front wiper stop position	On	
	When hazard switch is not pressed	Off	
HAZARD SW	When hazard switch is pressed	On	
	Headlamp switch OFF	Off	(
HEAD LAMP SW 1	Headlamp switch 1st	On	
	Headlamp switch OFF	Off	
HEAD LAMP SW 2	·		
	Headlamp switch 1st	On	
HI BEAM SW	High beam switch UI	Off	
	High beam switch HI	On	
D OK FLAG	Ignition switch ACC or ON	Reset	
	Ignition switch OFF	Set	

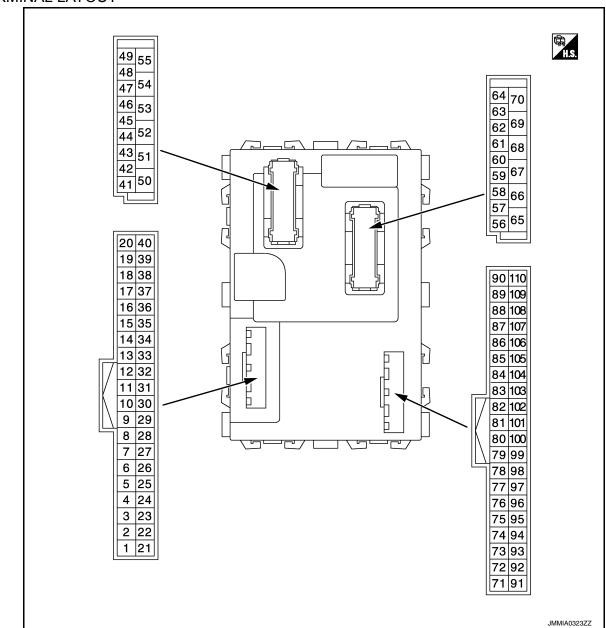
Monitor Item	Condition	Value/Status
ID REGST FL1	ID registration of front left tire incomplete	YET
ID REGGI FLI	ID registration of front left tire complete	DONE
ID REGST FR1	ID registration of front right tire incomplete	YET
ID REGGI FRI	ID registration of front right tire complete	DONE
ID REGST RL1	ID registration of rear left tire incomplete	YET
ID REGGI KLI	ID registration of rear left tire complete	DONE
ID DECCT DD1	ID registration of rear right tire incomplete	YET
ID REGST RR1	ID registration of rear right tire complete	DONE
IGN RLY1 F/B	Ignition switch OFF or ACC	Off
IGN RLY I F/B	Ignition switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
LIVEY ON ELAC	I-Key OFF	Key OFF
I-KEY OK FLAG	I-Key ON	Key ON
KEN ON TROM	Door key cylinder LOCK position	Off
KEY CYL LK-SW	Door key cylinder other than LOCK position	On
1/5\/ 0\/ 1 1 0\/	Door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Door key cylinder other than UNLOCK position	On
	Intelligent Key ID registered.	ID OK
NOT REGISTERED	Intelligent Key ID not registered.	ID NG
ODTI OTA (DTOT)	Bright outside of the vehicle	Close to 5V
OPTI SEN (DTCT)	Dark outside of the vehicle	Close to 0V
ODTI OEN (EUT)	Bright outside of the vehicle	Close to 5V
OPTI SEN (FILT)	Dark outside of the vehicle	Close to 0V
DA COINIO OW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
DDDT ENO OTDT	When the engine start is prohibited	Reset
PRBT ENG STRT	When the engine start is permitted	Set
DI IOLI OW	Power switch not pressed	Off
PUSH SW	Power switch pressed	On
DUOLLOW/IDDM	When engine switch (push switch) is not pressed	Off
PUSH SW-IPDM	When engine switch (push switch) is pressed	On
DEAD DEE OW	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
DEC 014/40	When passenger door request switch is not pressed	Off
REQ SW-AS	When passenger door request switch is pressed	On
	When back door request switch is not pressed	Off
REQ SW -BD/TR	When back door request switch is pressed	On
DEC 0141 DE	When driver door request switch is not pressed	Off
REQ SW-DR	When driver door request switch is pressed	On
	When LOCK button of Intelligent Key is not pressed	Off
RKE-LOCK	When LOCK button of Intelligent Key is pressed	On
DIVE MODE OUG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On

BCM

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
RKE OPE COUN1	Operation frequency of Intelligent Key	0-19	
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	Off	
RRE-PAINIC	When PANIC button of Intelligent Key is pressed	On	-
DIVE LINII OOK	When UNLOCK button of Intelligent Key is not pressed	Off	
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	On	
	Rear washer switch OFF	Off	(
RR WASHER SW	Rear washer switch ON	On	
	Rear wiper switch OFF	Off	
RR WIPER INT	Rear wiper switch INT	On	
DD WIDED ON	Rear wiper switch OFF	Off	
RR WIPER ON	Rear wiper switch ON	On	- 6
	Rear wiper in STOP position	Off	
RR WIPER STOP	Any position other than rear wiper position	On	
OFT NUMBER	When selector lever is in any position other than N	Off	l
SFT N-MET	When selector lever is in N position	On	
OFT D MET	When selector lever is in any position other than P	Off	(
SFT P-MET	When selector lever is in P position	On	
OFT DAME ON	When selector lever is in any position other than P or N	Off	
SFT PN/N SW	When selector lever is in P or N position	On	l
TAIL AND OW	Other than lighting switch 1ST and 2ND	Off	
TAIL LAMP SW	Lighting switch 1ST or 2ND	On	
TD 4	The ID of fourth key is not registered to BCM	Yet	
TP 4	The ID of fourth key is registered to BCM	DONE	
TD 0	The ID of third key is not registered to BCM	Yet	,
TP 3	The ID of third key is registered to BCM	DONE	
TD 0	The ID of second key is not registered to BCM	Yet	
TP 2	The ID of second key is registered to BCM	DONE	
TD 4	The ID of first key is not registered to BCM	Yet	
TP 1	The ID of first key is registered to BCM	DONE	
TD/DD ODEN OW	Back door opener switch not pressed	Off	
TR/BD OPEN SW	Back door opener switch pressed	On	В
TUDN CIONAL I	Turn signal switch OFF	Off	
TURN SIGNAL L	Turn signal switch LH	On	
TUDN CIONAL D	Turn signal switch OFF	Off	1
TURN SIGNAL R	Turn signal switch RH	On	
LINILIZ OEN DD	Driver door UNLOCK status	Off	
UNLK SEN-DR	Driver door LOCK status	On	(
VEH SPEED 1	While driving, equivalent to speedometer reading	mph, km/h	
VEH SPEED 2	While driving, equivalent to speedometer reading	mph, km/h	F
	Low tire pressure warning lamp in combination meter OFF	Off	
WARNING LAMP	Low tire pressure warning lamp in combination meter ON	On	

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description Signal name Input/ Output				Value (Approx.)
					Condition	
					OFF	0 V
					TURN RH	
2		Combination switch	Input	Combination	HEADLAMP 1	(V) 15
	Ground				HI BEAM	10
(L)	Sibulia	INPUT 5	put	switch	TAIL LAMP	0 +10ms PKIB4958J

Terminal No. Description (Wire color)					Value		
+ (Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)	
3 (GR)	Ground	Combination switch INPUT 4	Input		OFF	0 V	
				Combination switch	TURN LH		
					PASSING	(V) 15	
					HEADLAMP 2	10 5 0 → +10ms PKIB4958J 1.0 V	
					FR FOG	(V) 15 10 5 0	
					055	0.8 V	
	Ground	Combination switch INPUT 3	Input	Combination switch	OFF	0 V	
					AUTO LIGHT	(V) 15	
4 (BR)					FR WIPER LOW FR WIPER INT (Wiper intermittent dial 4)	15 10 5 0 PKIB4958J 1.0 V	
					OFF	0 V	
5 (G)	Ground	Combination switch INPUT 2	Input	Combination switch	FR WASHER		
					RR WASHER	(V) 15	
					INT VOLUME 3 • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	15 10 5 0 PKIB4958J 1.0 V	
					RR WIPER ON	(V) 15 10 5 0 PKIB4956J 0.8 V	

	nal No.	Description				Value (Approx.)	
+ (Wire	color)	Signal name	Input/ Output	Condition			
					OFF	0 V	
6 (V)	Ground	Combination switch INPUT 1	Input	Combination switch	FR WIPER HI INT VOLUME 1 Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 INT VOLUME 2 Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 6 Wiper intermittent dial 7 RR WIPER INT	(V) 15 10 5 0 10ms10ms PKIB4958J 1.0 V	
7 (GR)	Ground	Door key cylinder switch UNLOCK	Input	Door key cylinder switch	NEUTRAL	(V) 15 0 5 0 +-10ms PKIB4960J 7.0 - 8.0 V	
-					UNLOCK	0 V	
8 (R)	Ground	Door key cylinder switch LOCK	Input	Door key cylinder switch	NEUTRAL	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 - 8.0 V	
					LOCK	0 V	
9	Cround	Stop Jamp quitab	Innut	Stop lamp	Brake pedal released	0 V	
(BR)	Ground	Stop lamp switch	Input	switch	Brake pedal depressed	Battery voltage	
12 (Y)	Ground	Door lock and unlock switch LOCK	Input	Door lock and unlock switch	NEUTRAL	(V) 15 10 5 0 10 ms 10 ms 1.0 - 1.5 V	
					LOCK	0 V	
13 (BR)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and unlock switch	NEUTRAL	(V) 15 10 5 0 10 ms 10 ms 1.0 - 1.5 V	
					UNLOCK	0 V	

Terminal No.		Description				Value	
(Wire color)		Signal name	Input/ Output	Condition		(Approx.)	
14			Output	Power switch	Daylight	Close to 5 V	
(G)	Ground	Optical sensor	Input	ON SWILCH	Night	Close to 0 V	
15 (W)	Ground	Rear window defog- ger switch	Input	Rear window defogger switch	Switch released	(V) 15 10 10 ms 10 ms JPMIA0012GB 1.0 - 1.5 V	
16					Switch pressed	0 0	
(R)	Ground	MR output	Output	_	_	_	
17	Ground	Sensor power sup-	Output	Power switch	OFF, ACC	0 V	
(Y)		ply		23. 5	ON	4.65 - 5.5 V	
18 (L)	Ground	Receiver and sensor ground	Input	Power switch ON	ı	0 V	
21 (P)	Ground	NATS antenna amp.	Input/ Output	Intelligent Key battery re- moved	Brake pedal depressed NOTE: Waveform varies each time when brake pedal is depressed	(V) 15 10 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
					Brake pedal released	Battery voltage	
23 (R)	Ground	Security indicator lamp	Output	Security indicator lamp	ON Blinking (Power switch OFF)	0 - 0.5 V	
						JPMIA0590GB 12.0 V	
					OFF	Battery voltage	
24* (SB)	Ground	Dongle link	Input/ Output	Power switch OFF		5 V	
25 (LG)	Ground	NATS antenna amp.	Input/ Output	Intelligent Key battery re- moved	Brake pedal depressed NOTE: Waveform varies each time when brake pedal is depressed	(V) 15 10 5 0 + 40ms JMKIA6233JP	
					Brake pedal released	Battery voltage	
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage	
(G)					ON	0 - 1.5 V	

Terminal No. (Wire color)		Description				Value	
+	-	Signal name	Input/ Output	Condition		(Approx.)	
30 (V)	Ground	Back door opener switch	Input	Back door opener switch	Pressed	0 V 15 10 5 10 ms JPMIA0012GB 1.0 - 1.5 V	
31 (W)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor OFF)	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 - 8.0 V	
					UNLOCK status (Unlock sensor ON)	0 V	
					OFF	(V) 15 10 5 0 +	
32 (GR)	Ground	Combination switch OUTPUT 5	Output	Combination switch	INT VOLUME 2 • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 → +10ms PKIB4958J 1.2 V	
					RR WIPER ON	40	
					FR FOG	(V) 15 10 5 0 ***10ms PKIB495&J 1.0 V	

	nal No.	Description	1			Value	Λ
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					OFF	(V) 15 10 5 0 **10ms	В
33	Ground	Combination switch OUTPUT 4	Output	Combination		7.0 - 8.0 V	D
(Y)		0012014		switch	RR WIPER INT INT VOLUME 3 • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0	E
					TAIL LAMP	PKIB4958J	F
					AUTO LIGHT	1.2 V	0
34	Ground	Combination switch	Output	Combination	OFF	(V) 15 10 5 0 ++10ms PKIB4960J 7.0 - 8.0 V	G H
(W)	Ground	OUTPUT 3	Salpar	switch	INT VOLUME 1 • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 RR WASHER HI BEAM	(V) 15 10 5 0 ++10ms PKIB4958J	J K
					HEADLAMP 2	1.2 V	L
					OFF	(V) 15 10 5 0 ***10ms	BCS N
35 (BG)	Ground	Combination switch OUTPUT 2	Output	Combination switch	FR WIPER HI	7.0 - 8.0 V	0
()					FR WIPER INT	(V) 15	_
					HEADLAMP 1	10	Р
					PASSING	0 → +10ms PKIB4958J 1.2 V	

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
36	Canada	Combination switch	Outout	Combination	OFF	(V) 15 10 5 0 *****************************
(P)	Ground	OUTPUT 1	Output	switch	FR WASHER	
					FR WIPER LOW	(V) 15
					TURN RH	10 5
			Т	TURN LH	0 ++10ms PKIB4958J	
					P position	0 - 1.5 V
37 (V)	Ground	P position	Input	Shift position	Any position other than P	6 - 16 V
					Waiting	12 V
				Power switch OFF (Remote keyless entry communication)	When operating buttons on Intelligent Key	(V) 15 10 5 0 200 ms
38 (SB)	Ground	Receiver communication	Input/ Output	Power switch ON (TPMS	Waiting	(V) 15 10 5 0 100 ms JMMIA0573GB
				communication)	When receiving signal from tire pressure sensor	(V) 15 10 5 0 100 ms JMMIA0574GB
39 (L)	Ground	CAN H	Input/ Output		_	_
40 (P)	Ground	CAN L	Input/ Output		_	_

	Terminal No. Description (Wire color)				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
43 (Y)	Ground	Back door switch	Input	Back door switch	OFF (Door closed)	(V) 15 10 5 0 + 10ms PKIB4960J
					ON (Daga area)	7.0 - 8.0 V
					ON (Door open)	0 V
44	Ground	Rear wiper stop po-	Input	Power switch	Rear wiper stop position	Battery voltage
(LG)	Sidulid	sition	прис	ON	Any position other than rear wiper stop position	0 - 1.5 V
45 (BR)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door closed)	(V) 15 10 5 0
						PKIB4960J 7.0 - 8.0 V
					ON (Door open)	0 V
46 (R)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door closed)	(V) 15 10 5 0 ** 10ms PKIB4960J
					ON (Danasa)	7.0 - 8.0 V
					ON (Door open)	0 V
47 (SB)	Ground	Driver door switch	Input	Driver door switch	OFF (Door closed)	(V) 15 10 5 0 +-10ms PKIB4960J
					ON (Door open)	7.0 - 8.0 V 0 V
					Cit (Bool open)	
48 (W)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door closed)	(V) 15 10 5 0
						PKIB4960J 7.0 - 8.0 V
					ON (Door open)	0 V

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
49	Ground	Luggage room lamp	Output	Luggage room	OFF	Battery voltage
(L)		30 0	•	lamp	ON	0 - 1 V
51 (P)	Ground	Back door request switch	Input	Back door re- quest switch	ON (Pressed)	0 - 1.5 V
		SWITCH		quest switch	OFF (Released)	Battery voltage
53 (GR)	Ground	Back door open	Output	Back door	OFF (Actuator idle) OPEN (Actuator activated)	0 V Battery voltage
54	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
(P)	Ciouna	real wiper	Output	rtear wiper	ON (Activated)	Battery voltage
55	Ground	Rear door UNLOCK	Output	Rear door	UNLOCK (Actuator activated)	Battery voltage
(G)	Ground	Real door oncook	Output	rteal door	Other then UNLOCK (Actuator idle)	0 V
56		Interior room lamp		Interior room lan	np battery saver activated.	0 V
(P)	Ground	power supply	Output	Interior room landed.	np battery saver not activat-	Battery voltage
57 (P)	Ground	Battery power sup- ply	Input	Power switch OF	F	Battery voltage
59	Cround	Passenger door UN-	Quitout	out Passenger door	UNLOCK (Actuator activated)	12 V
(LG)	Ground LOCK	Output	. docorigor door	Other then UNLOCK (Actuator idle)	0 V	
					Turn signal switch OFF	0 V
60 (V)	Ground	Turn signal LH	Output	Power switch ON	Turn signal switch LH	(V) 15 10 5 0 PKIC6370E 6.5 V (Turn signal lamp turn on: 9 - 16 V)
					Turn signal switch OFF	0 V
61 (R)	Ground	Turn signal RH	Output	Power switch ON	Turn signal switch RH	(V) 15 10 5 0 PKIC6370E 6.5 V (Turn signal lamp turn on: 9 - 16 V)
63	Ground	Interior room lamp	Output	Interior room	OFF	Battery voltage
(BR)	Giound	control	Output	lamp	ON	0 - 1 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator activated)	Battery voltage
(V)	Glound	All doors LOCK	Output	7 til doore	Other then LOCK (Actuator idle)	0 V
66	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator activated)	Battery voltage
(G)	Glound	LOCK	Output	· C	Other then UNLOCK (Actuator idle)	0 V
67 (B)	Ground	Ground	Output	Power switch ON	١	0 V
68	Ground	P/W power supply	Output	Power switch OF	F	0 V
(L)	Giodila	(ON)	Output	Power switch ON	١	Battery voltage
69 (R)	Ground	P/W power supply (BAT)	Output	Power switch OF	F	Battery voltage
70 (Y)	Ground	Battery power sup- ply	Input	Power switch OF	F	Battery voltage
73 (V)	Ground	Push switch signal output	Output	_	_	_
75	Ground	Driver door request	Input	Driver door re-	ON (Pressed)	0 - 1.5 V
(LG)	Giodila	switch	прис	quest switch	OFF (Released)	Battery voltage
76	Ground	Power switch (push	Input	Power switch	Pressed	0 - 1.5 V
(SB)	Cround	switch)	Прис	(push switch)	Released	Battery voltage
78	Ground	Outside key antenna	Output	Driver door request switch op-	Intelligent Key not in antenna detection area (Approx. 2 m)	(V) 15 10 5 0 JMKIA5954GB
(P)	Sibulid	(driver side) +	Cuput	erated with power switch ON	Intelligent Key in antenna detection area (80 cm or less)	(V) 15 10 5 0 500 ms JMKIA5955GB

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	nal No. color)	Description				Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
79	Ground	Outside key antenna	Output	Driver door request switch operated with power switch ON	Intelligent Key not in antenna detection area (Approx. 2 m)	(V) 15 10 5 0
(V)	Glound	(driver side) -	Сири		Intelligent Key in antenna detection area (80 cm or less)	(V) 15 10 5 0 500 ms JMKIA5955GB
80	Ground	Outside key antenna	Output	Passenger door request switch	Intelligent Key not in antenna detection area (Approx. 2 m)	(V) 15 10 5 0 500 ms JMKIA5954GB
(LG)	Glound	(passenger side) +	Output	operated with power switch ON	Intelligent Key in antenna detection area (80 cm or less)	(V) 15 10 5 0 5 0 JMKIA5955GB
81	Ground	Outside key antenna	Output	Passenger door request switch	Intelligent Key not in antenna detection area (Approx. 2 m)	(V) 15 10 5 0 5 0 JMKIA5954GB
(Y)	Giound	und (passenger side) - Out	Output	operated with power switch ON	Intelligent Key in antenna detection area (80 cm or less)	(V) 15 10 5 0 5 0 JMKIA5955GB

	inal No. e color)	Description	1		O a saliti a a	Value	Α
+	-	Signal name	Input/ Output		Condition	(Approx.)	7.
82		Outside key antenna		Back door request switch op-	Intelligent Key not in antenna detection area (Approx. 2 m)	(V) 15 10 5 0 JMKIA5954GB	B C D
(W)	Ground	(rear bumper) +	Output	erated with power switch ON	Intelligent Key in antenna detection area (80 cm or less)	(V) 15 10 5 0 500 ms JMKIA5955GB	E
83		Outside key antenna		Back door request switch op-	Intelligent Key not in antenna detection area (Approx. 2 m)	(V) 15 10 500 ms JMKIA5954GB	G H
(B)	Ground	(rear bumper) -	Output	erated with power switch ON	Intelligent Key in antenna detection area (80 cm or less)	(V) 15 10 5 0 JMKIA5955GB	J K L
84		Inside key antenna		Power switch	Intelligent Key not in antenna detection area	(V) 15 10 11 1	BCS N
84 (BR)	Ground	(instrument center) +	Output	ON ON	Intelligent Key in antenna detection area	(V) 15 10 5 0 JMKIA3839GB	ОР

	nal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
85	Ground	Inside key antenna	Output	Power switch	Intelligent Key not in antenna detection area	(V) 15 10 5 0 1 S S S S S S S S S
(Y)	Glound	(instrument center) -	Output	ut ON _	Intelligent Key in antenna detection area	(V) 15 10 5 0 JMKIA3839GB
86	Ground	Inside key antenna	Output	Output Power switch ON	Intelligent Key not in antenna detection area	(V) 15 10 5 0 JMKIA5951GB
(G)	Ciound	(rear seat) +	Output		Intelligent Key in antenna detection area	(V) 15 10 5 0 JMKIA3839GB
87	Ground	Inside key antenna	Output	Power switch	Intelligent Key not in antenna detection area	(V) 15 10 5 0 JMKIA5951GB
(R)	Sisting	(rear seat) –	Supat	ON	Intelligent Key in antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB

	nal No.	Description				Value	
(vvire	color)	Signal name	Input/ Output		Condition	(Approx.)	
					Intelligent Key not in antenna detection area	(V) 15 10 5 0 1 s JMKIA5951GB	
88 (G)	Ground	Inside key antenna (luggage room) +	Output	Power switch ON	Intelligent Key in antenna detection area	(V) 15 10 5 0 JMKIA3839GB	
89	Cround	Inside key antenna	Output	Power switch	Intelligent Key not in antenna detection area	(V) 15 10 5 0 1 s JMKIA5951GB	
(R)	Ground	(luggage room) -	Output	ON	Intelligent Key in antenna detection area	(V) 15 10 5 0 JMKIA3839GB	
90	0	Power switch illumi-	0.15.1	Power switch il-	ON	Battery voltage	
(W)	Ground	nation power supply	Output	lumination	OFF	0 - 1.5 V	I
91 (V)	Ground	ACC/ON indicator lamp	Output	Power switch	OFF ACC or ON	Battery voltage 0 - 1.5 V	
92 (B)	Ground	Power switch illumination ground	Output	Tail lamp	OFF	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 15 10 5 10 ms JPMIA1554GB 6.0 - 7.0 V	
93 (GR)	Ground	Intelligent Key warn- ing buzzer	Output	Intelligent Key warning buzzer	Sounding Not sounding	0 - 1.5 V Battery voltage	

	nal No.	Description				Value	
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)	
96	Ground	Accessory relay	Output	Power switch	OFF	0 - 0.5 V	
(BR)		control			ACC or ON	Battery voltage	
				Power switch ON	I	Battery voltage	
97 (LG)	Ground	READY signal	Output		N → Set the vehicle to supply position: READY	0 - 0.5 V	
98	Ground	Ignition relay (IPDM	Output	Power switch	OFF or ACC	Battery voltage	
(L)	Giodila	E/R) control	Output	Fower switch	ON	0 - 0.5 V	
99	Ground	Ignition relay (F/B)	Output	Power switch	OFF or ACC	0 - 0.5 V	
(GR)	Giodila	control	Output	Fower Switch	ON	Battery voltage	
100	Ground	Passenger door re-	Input	Passenger door	ON (Pressed)	0 - 1.5 V	
(P)	Giodila	quest switch	iliput	request switch	OFF (Released)	Battery voltage	
102	Ground	P/N position	Input	Shift position	P or N position	Battery voltage	
(BG)	Giouila	F/M POSITION	Input	Smit position	Except P and N positions	0 - 1.5 V	
105 (W)	Ground	Stop lamp switch 2	Input	Power switch OFF		Battery voltage	

^{*:} For Canada

Fail-safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

Display contents of CONSULT	Fail-safe	Cancellation
B2192: ID DISCORD BCM-ECM*	Inhibit setting the vehi- cle to READY	Erase DTC
B2193: CHAIN OF BCM-ECM*	Inhibit setting the vehi- cle to READY	Erase DTC
B2195: ANTI-SCANNING	Inhibit setting the vehi- cle to READY	Power switch ON \rightarrow OFF
B2196: DONGLE NG	Inhibit setting the vehi- cle to READY	Erase DTC
B2198: IMMOBI ANT NG	Inhibit setting the vehi- cle to READY	Erase DTC
B261E: FUEL MIS CONFIG	Inhibit setting the vehi- cle to READY	When the VCM status signal is normally received from VCM.
B26F1: IGN RELAY OFF STUCK	Inhibit setting the vehi- cle to READY	When the following conditions are fulfilled • Power switch ON signal (CAN: Transmitted from BCM): ON • Power switch ON signal (CAN: Transmitted from IPDM E/R): ON
B26F2: IGN RELAY ON STUCK	Inhibit setting the vehi- cle to READY	When the following conditions are fulfilled • Power switch ON signal (CAN: Transmitted from BCM): OFF • Power switch ON signal (CAN: Transmitted from IPDM E/R): OFF
B26F7: LF DRIVER COMMUNI- CATION	Inhibit setting the vehi- cle to READY	When inside key antennas function normally
U0415: VDC CAN CIRC2	Inhibit setting the vehi- cle to READY	When vehicle speed signal (Meter) (CAN) is received normally

^{*: &}quot;ECM" is indicated on CONSULT display, however this means VCM on this vehicle.

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

< ECU DIAGNOSIS INFORMATION >

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

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Condition of cancellation

- 1. More than 1 minute is passed after the rear wiper stop.
- 2. Turn rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

FAIL-SAFE CONTROL OF COMBINATION SWITCH READING FUNCTION CAUSED BY LOW POWER SUPPLY VOLTAGE

If voltage of battery power supply lower, BCM maintains combination switch reading to the status when input voltage is less than approximately 9 V.

NOTE:

When voltage of battery power supply is approximately 9 V or more, combination switch reading function returns to normal operation.

DTC Inspection Priority Chart

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC	
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT(CAN) U0293: LOST COMM (HV ECU)	
3	B2192: ID DISCORD BCM-ECM* B2193: CHAIN OF BCM-ECM* B2195: ANTI-SCANNING B2196: DONGLE NG B2198: IMMOBI ANT NG	
	 B2555: STOP LAMP CIRCUIT B2556: ENG START SW B2557: VEHICLE SPEED B2601: SHIFT P SIGNAL B2602: SHIFT P DIAG B2603: SHIFT POSITION B2604: SHIFT PN DIAG CAN 	
4	 B2614: ACC RELAY REQ F/B B2616: IGN RELAY2 REQ F/B B2617: ST RELAY REQ F/B B2618: IGN RELAY1 REQ F/B B261A: ENG SW B261E: FUEL MIS CONFIG B26F1: IGN RELAY OFF STUCK 	
	 B26F2: IGN RELAY ON STUCK B26F6: IGN USM CONT B26F7: LF DRIVER COMMUNICATION B26FC: KEYFOB MISS REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VDC CAN CIR2 	
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL	
5	 C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL 	

Revision: October 2013 BCS-47 2013 LEAF

Priority	DTC
6	B2621: INSIDE ANTENNA 1 B2622: INSIDE ANTENNA 2 B2623: INSIDE ANTENNA 3
7	B2626: OUTSIDE 1 ANTENNA B2627: OUTSIDE 2 ANTENNA B2628: OUTSIDE 3 ANTENNA

^{*: &}quot;ECM" is indicated on CONSULT display, however this means VCM on this vehicle.

DTC Index

NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past. IGN counter is displayed on Freeze Frame Data.

CONSULT display	Fail-safe	Freeze Frame Data Vehicle Speed Odo/Trip Meter Vehicle Condition	Intelligent Key warning lamp ON	Low tire pres- sure warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_	_
U0293: LOST COMM (HV ECU)	_	_	_	_	BCS-79
U0415: VDC CAN CIR2	×	_	×	_	BCS-80
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-77
U1010: CONTROL UNIT(CAN)	_	_	_	_	BCS-78
B2192: ID DISCORD BCM-ECM*	×	_	_	_	SEC-75
B2193: CHAIN OF BCM-ECM*	×	_	_	_	SEC-76
B2195: ANTI-SCANNING	×	_	_	_	SEC-77
B2196: DONGLE NG	×	_	_	_	SEC-78
B2198: IMMOBI ANT NG	×	_	_	_	SEC-80
B2555: STOP LAMP CIRCUIT	_	×	×	_	SEC-83
B2556: ENG START SW	_	×	×	_	SEC-86
B2557: VEHICLE SPEED	×	×	×	_	SEC-88
B2562: LOW VOLTAGE	_	×	_	_	BCS-81
B2601: SHIFT P SIGNAL	×	×	×	_	SEC-89
B2602: SHIFT P DIAG	×	×	×	_	SEC-91
B2603: SHIFT POSITION	×	×	×	_	SEC-93
B2604: SHIFT PN DIAG CAN	×	×	×	_	SEC-95
B2614: ACC RELAY REQ F/B	_	×	×	_	PCS-62
B2616: IGN RELAY2 REQ F/B	_	×	×	_	PCS-64
B2617: ST RELAY REQ F/B	_	×	×	_	SEC-97
B2618: IGN RELAY1 REQ F/B	_	×	×	_	PCS-66
B261A: ENGINE SW	_	×	×	_	PCS-68
B261E: FUEL MIS CONFIG	_	×	×	_	SEC-101
B2621: INSIDE ANTENNA 1	_	×	_	_	DLK-85
B2622: INSIDE ANTENNA 2	_	×	_	_	DLK-87

CONSULT display	Fail-safe	Freeze Frame Data Vehicle Speed Odo/Trip Meter Vehicle Condition	Intelligent Key warning lamp ON	Low tire pres- sure warning lamp ON	Reference page	АВ
B2623: INSIDE ANTENNA 3	_	×	_	_	DLK-89	
B2626: OUTSIDE 1 ANTENNA	_	×	_	_	DLK-91	C
B2627: OUTSIDE 2 ANTENNA	_	×	_	_	DLK-93	
B2628: OUTSIDE 3 ANTENNA	_	×	_	_	DLK-95	D
B26F1: IGN RELAY OFF STUCK	×	×	×	_	PCS-70	
B26F2: IGN RELAY ON STUCK	×	×	×	_	PCS-71	
B26F6: IGN USM CONT FAIL	_	×	×	_	PCS-72	Е
B26F7: LF DRIVER COMMUNICATION	×	×	×	_	SEC-102	
B26FC: KEYFOB MISS REGISTRATION	_	×	×	_	SEC-103	F
C1704: LOW PRESSURE FL	_	_	_	×		
C1705: LOW PRESSURE FR	_	_	_	×	WT-28	
C1706: LOW PRESSURE RR	_	_	_	×	<u>VV 1-20</u>	G
C1707: LOW PRESSURE RL	_	_	_	×	=	
C1708: [NO DATA] FL	_	_	_	×		H
C1709: [NO DATA] FR	_	_	_	×	WT-30	1
C1710: [NO DATA] RR	_	_	_	×	<u> </u>	
C1711: [NO DATA] RL	_	_	_	×		
C1716: [PRESSDATA ERR] FL	_	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	_	×	W/T 22	
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-33</u>	J
C1719: [PRESSDATA ERR] RL	_	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-35</u>	k

^{*: &}quot;ECM" is indicated on CONSULT display, however this means VCM on this vehicle.

BCS

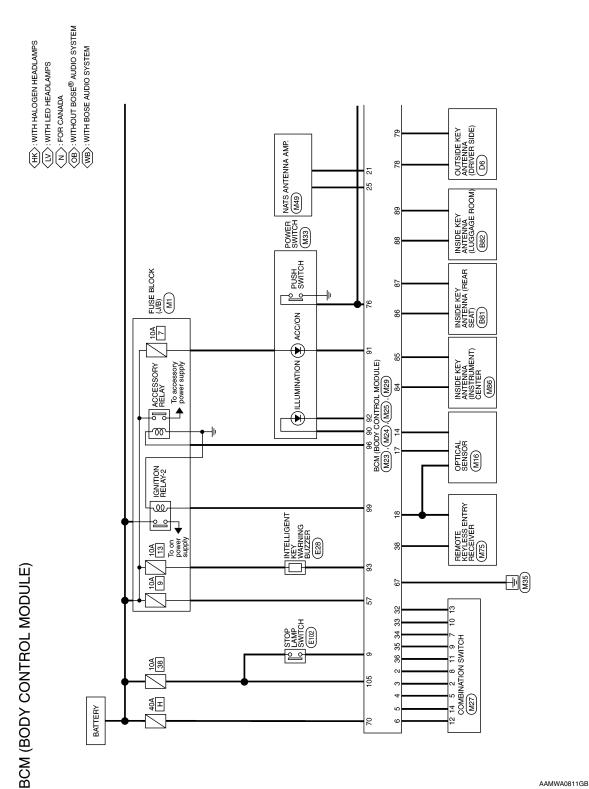
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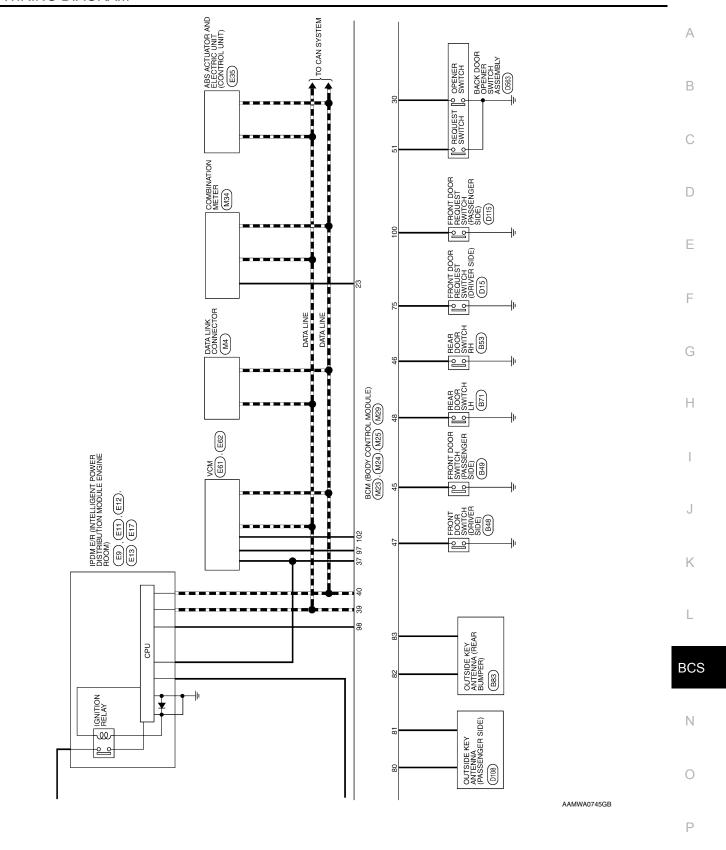
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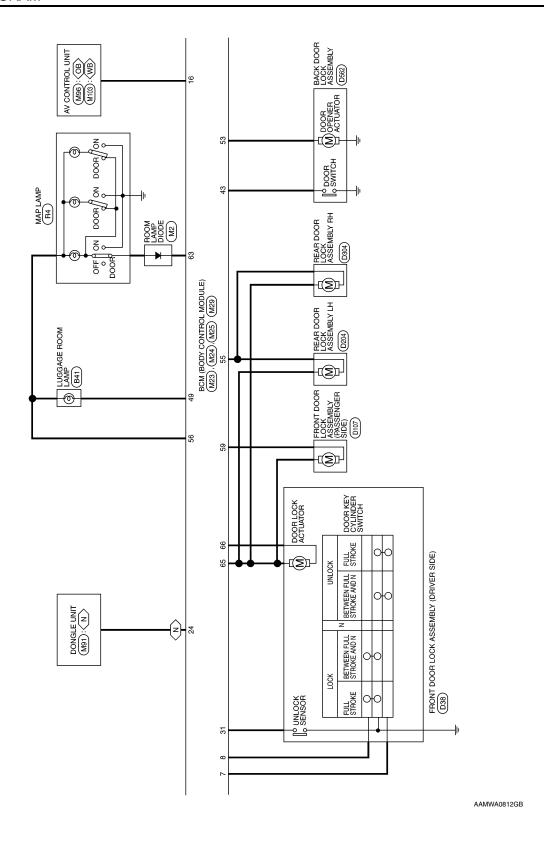
WIRING DIAGRAM

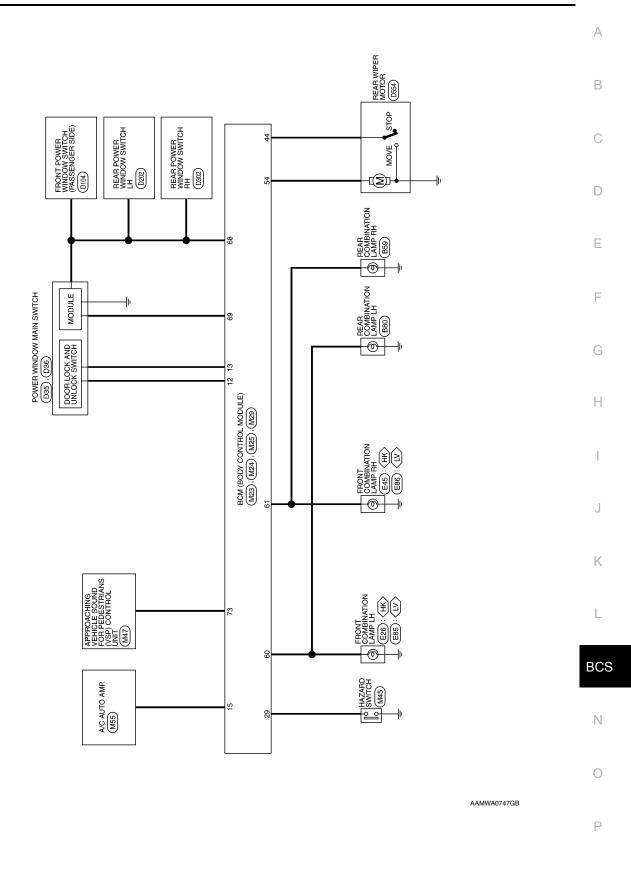
BCM

Wiring Diagram









Connector Name | OPTICAL SENSOR

M16

Connector No.

Connector Color WHITE

Signal Name

Terminal No. Color of Wire

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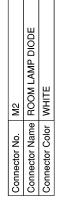
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BCM (BODY CONTROL MODULE) - CONNECTORS

M1	-USE BLOCK (J/B)	WHITE
Connector No. M	Connector Name FUSE BLOCK (J/B)	Connector Color W

FUSE BLOCK (J/B)	TE		Signal Name	ı
me FUS	lor WHI		Color of Wire	>
Connector Name	Connector Color WHITE	赋 H.S.	Terminal No.	-

E



Signal Name	ı	-
Color of Wire	GR	BR
Terminal No. Wire	-	2

Signal Name	_	ı	1	1	ı	ı
Color of Wire	В	_	1	SB	В	_
Terminal No. Wire	8	6	10	11	12	13

Signal Name	-	ı	I	I	ı	ı	-	I	-
Color of Wire	В	ı	1	SB	ŋ	٦	Ь	_	Υ
Terminal No. Color of Wire	8	6	10	11	12	13	14	15	16

Signal Name

Color of Wire

Terminal No.

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В В _

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Connector Name DATA LINK CONNECTOR

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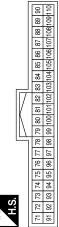
Connector No.

Connector Color WHITE

Signal Name	ı	ACC RELAY OUTPUT	STARTER RELAY OUTPUT	IGN RELAY OUTPUT1 (USM)	IGN RELAY OUTPUT2 (ELEC)	REQUEST SW (AS)	ı	SHIFT N, P	_	I	BRAKE SW2	-	1	1	_	1
Color of Wire	1	BR	LG	L	GR	Ь	1	BG	_	1	W	_	_	ı	_	ı
Terminal No.	92	96	26	86	66	100	101	102	103	104	105	106	101	108	109	110

	Color of	
Terminal No.	Wire	Signal Name
81	>	DOOR ANTENNA (AS) -
82	M	BACK DOOR ANTENNA +
83	В	BACK DOOR ANTENNA –
84	BR	ROOM ANTENNA 1 +
85	Ь	ROOM ANTENNA 1 -
86	G	ROOM ANTENNA 2 +
87	В	ROOM ANTENNA 2 -
88	9	ROOM ANTENNA 3+
89	ш	ROOM ANTENNA 3 -
90	M	HIGHSIDE ENGINE START SW ILLUMINATION LED
91	>	POWER POSITION LED (LOCK POSITION LED)
92	В	LOW SIDE ENGINE START SW ILLUMINATION LED OUTPUT
93	GR	SMART KEYLESS BUZZER OUTPUT
94	ı	ı

Connector No.	M23
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color WHITE	WHITE
(南) H.S.	



Signal Name	-	ı	PUSH SW SIGNAL OUTPUT	ı	REQUEST SW (DR)	ENGINE START SW	ı	DOOR ANTENNA (DR)	DOOR ANTENNA (DR)	DOOR ANTENNA (AS)
Color of Wire	_	_	^	1	LG	SB	_	Ь	^	ГG
Terminal No.	71	72	73	74	75	9/	11	78	62	80

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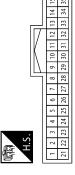
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Terminal No. Wire	Color of Wire	S ignal Name
36	Ь	COMBINATION S W OUTPUT 1
37	٨	S HIFT P POSITION, P ARKING POSITION S W
38	SB	INTELLIGE NT TUNE R
39	Τ	CAN-H
40	Ь	CAN-L

Terminal No.	Color of Wire	Signal Name
15	*	REAR DEFOGGER SW
16	~	MR OUTPUT
17	>	AUTO LIGHT SENSOR POWER SUPPLY OUTPUT
18	٦	KEYLESS TUNER, AUTO LIGHT SENSOR GND
19	1	1
20	1	ı
21	Ь	IMMOBILIZER ONE WAY COMMUNICATION (CLOCK)
22	_	_
23	œ	SECURITY INDICATOR OUTPUT
24	SB	DONGLE LINK
25	ΓG	IMMOBILIZER TWO WAY COMMUNICATION
26	_	_
27	_	_
28	_	1
29	G	HAZARD SW
30	>	TRUNK/BACK DOOR OPENER SW
31	W	DOOR LOCK STATUS SW (DR)
32	GR	COMBINATION S W OUTP UT 5
33	>	COMBINATION SW OUTPUT 4
34	W	COMBINATION SW OUTPUT 3
35	BG	COMBINATION S W OUTP UT 2

Connector No.	M24
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK



S ignal Name	_	COMBINATION S W INPUT 5	COMBINATION S W INPUT 4	COMBINATION S W INP UT 3	COMBINATION S W INPUT 2	COMBINATION SW INPUT 1	KEY CYLINDER UNLOCK SW	KEY CYLINDER LOCK SW	BRAKE SW1	ı	_	CENTRAL DOOR LOCK SW	CENTRAL DOOR UNLOCK SW	AUTO LIGHT S E NS OR INP UT
Color of Wire	_	٦	GR	BR	9	^	GR	œ	BR	-	_	٨	BR	9
Terminal No.	1	2	8	4	5	9	7	8	6	10	11	12	13	14

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Connector No.	M29
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK

			ك	>		<u>.</u>	())	Ь		, OR)		OR	П	
Signal Name	-	I	DOOR SW (BACK)	REAR WIPER AUTO STOP SW	DOOR SW (AS)	DOOR SW (RR)	(Aa) WS AOOa	(JR) WS ROOD	LUGGAGE LAMP OUTPUT	_	REQUEST SW (TRUNK/BACK DOOR)	_	TRUNK/BACK DOOR OPEN OUTPUT	REAR WIPER MOTOR OUTPUT	AJO INI ACCA
Color of Wire	1	ı	>	PC	BR	Œ	SB	Μ	_	1	۵	1	GR	۵	
Ferminal No.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	

Connector No.		M27	7.				
Connector Name COMBINATION SWITCH	me	8	¥	Ž	4TI	Z	SWITCH
Connector Color	ō	⋝	WHITE	ш			
				IV	[- [7		
		7			1		Г
S	-	2	_		4	9	
	7	8	9 10	Ξ	10 11 12 13 14	-	
						ı	1

Signal Name	I	ı	ı	ı	ı	1	ı	ı	1	ı	ı	ı	ı	ı	ı	ı
Color of Wire	P P	GR	Œ	SB	BR	В	8	٦	BG	>	Ь	^	GR	G	-	ı
Terminal No.	-	2	က	4	5	9	7	8	6	10	11	12	13	14	15	16

M25	e BCM (BODY CONTROL MODULE)	r WHITE	56 57 58 59 60 61 62 63 64
<u>.</u>	lame	Solor	

Signal Name	BATTERY SAVER OUTPUT	BATTERY (FUSE)	1	DOOR UNLOCK OUTPUT (AS)	FLASHER OUTPUT (LEFT)	FLASHER OUTPUT (RIGHT)	ı	ROOM LAMP OUTPUT	I	DOOR LOCK OUTPUT	DOOR UNLOCK COMMON (DR)	GND	POWER WINDOW POWER SUPPLY (RAP)	POWER WINDOW POWER SUPPLY (BATTERY)	BATTERY (F/L)
Color of Wire	Ь	Ь	ı	ГG	>	В	ı	BR	1	>	В	В	L	В	>
Terminal No.	56	22	89	69	09	61	62	63	64	65	99	67	89	69	70

M2	MC MC	w.
Connector No.	Connector Name	Connector Color

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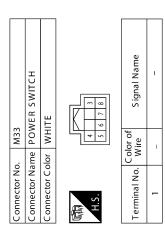
Signal Name

Color of Terminal No. Wire

Terminal No.	Color of Wire	S ignal Name
24	BG	PKB SW
25	88	BRAKE OIL
26	В	ILL CONT OUT
27	R	A/BAG WARN
28	æ	SECURITY
29	-	I
30	GR	8 P/R O/P
31	-	-
32	M	S DA (12C)
33	9	S CL (12C)
34	٦	CHARGE LAMP
35	-	I
36	-	ı
37	_	-
38	۸	LED H LAMP R
39	FG	LED H LAMP L
40	Μ	BUCKLE SW FR DR

_			_													
ı	ı	ı	1	ı	1	1		S ignal Name	WASHER SW	CHARGE CONNECT	1	1	SW GND	MODE B S W	MODE A S W	THE PLANE
ı	ט	В	>	В	>	SB		Color of Wire	>	BR	ı	1	^	ŋ	7	0
2	3	4	5	9	7	8		Terminal No.	8	6	10	11	12	13	14	

Signal Name	WASHER SW	CHARGE CONNECT	1	1	SW GND	MODE B SW	MODE A SW	TRIP RESETSW	ILL CONT UP	UPPER ILL CONT	CAN-H	CAN-L	AS SEATBELT W/L	1	GND (FOR UPPER)	-
Color of Wire	>	BR	1	1	>	g	>	BR	Ь	9	Ь	_	PT	1	GR	-
Terminal No.	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23

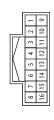


Connector No.). M34	
Connector Name		COMBINATION METER
Connector Color	olor WHITE	ITE
9		
NATURE TO SERVICE TO S		
H.S.		
20 19 18 17 16	15 14 13	12 11 10 9 8 7 6 5 4 3 2 1
40 39 38 37 36	35 34 33	32 31 30 29 28 27 26 25 24 23 22 21
Terminal No.	Color of Wire	S ignal Name
1	97	BAT
2	Å	BAT (FOR UPPER)
3	GR	NDI
4	BB	IGN (FOR UPPER)
5	В	GND1 (ILL)
9	В	GND2 (POWER)
7	_	-

AAMIA1894GB

Signal Name	1	VSP SPEAKER SIGNAL (-)	VSP SPEAKER SIGNAL (+)	1	-	POWER SWITCH SUPPLY	CAN-L	BATTERY POWER SUPPLY	VSP WARNING LAMP SIGNAL	START UP SOUND SPEAKER SIGNAL (-)	START UP SOUND SPEAKER SIGNAL (+)
Color of Wire	-	Г	>	-	_	9	Ь	R	PT	R	W
Terminal No. Wire	9	7	8	6	10	11	12	13	14	15	16

M47	APPROACHING VEHICLE SOUND FOR PEDESTRIANS (VSP) CONTROL UNIT	/НІТЕ	
Connector No.	Connector Name	Connector Color WHITE	



S ignal Name	GROUND	1	POWER SWITCH SIGNAL
Color of Wire	В	1	^
Terminal No.	1	2	3

CAN-H

 $^{\circ}$ 4

	HAZARD SWITCH	ITE	1 2 4	S ignal Name	ı	I	ı	
. M45		lor WHITE		Color of Wire	В	G	W	
Connector No.	Connector Name	Connector Color	刷 H.S.	Terminal No.	-	2	3	





S ignal Name	-	I	1	=
Color of Wire	Ь	Ь	Pl	В
Color of Wire	-	2	3	4

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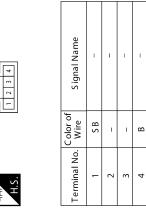
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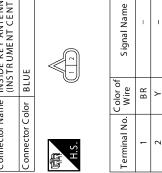
ıme			_	_	_											
S ignal Name	1	1	5V OUT	CAN-H	CAN-L	S GND	BAT	IGN 1	S JNI	S TNI	S NN S	AMB S	TA 2	INT F/B	-	LIN
Color of Wire	1	1	>	_	ŋ	æ	ŋ	>	PT	ŋ	۵	GR	>	SB	_	SB
Terminal No.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Connector No. N	M91
Connector Name DONGLE UNIT	DONGLE UNIT
Connector Color WHITE	WHITE



S ignal Name	MIX1	GND	1	BLR PWM	-	COMP TX	REAR DEF	STRG HEATER SW	TA1	COMP RX	ILL+	-171	FRESH	STEER RLY	HEATER SEAT RLY	_	
Color of Wire	٦	В	1	GR	_	٦	M	Pl	W	M	W	В	9	>	SB	_	
Terminal No. Color of Wire	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	

Connector No.	M86
Connector Name	Connector Name INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Color BLUE	BLUE



	A/C AUTO AMP.	TE .		10 11 12 13 14 15 16 17 18 19 20 30 31 32 33 34 35 36 37 38 39 40	S ignal Name	REC	MODE 4	MODE 3	MODE 2	MODE 1	MIX4	MIX3	MIX2
M55	_	or WHITE		6 7 8 9 26 27 28 29	Color of Wire	>	æ	Ь	BG	>	BR	GR	P
Connector No.	Connector Name	Connector Color	N.S.	1 2 3 4 5 1 21 22 23 24 25 2	Terminal No.	1	2	8	4	5	9	7	8

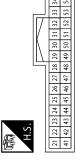
Connector Name REMOTE KEYLESS ENTRY RECEIVER Connector Color WHITE
PCTOL OIOT WHILE
Connector No. M75

REMOTE KEYLESS ENTRY RECEIVER	TE	2 3 4	S ignal Name	ı	-	-	
ne REN ENT	or WHITE		Color of Wire	9	SB	_	
Connector Name	Connector Color	南 H.S.	Terminal No.	1	7	3	

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S ignal Name	1	1	MIC VCC	AUX AUDIO LH	AUX AUDIO-	ı	ı	CAMERA V+	R CAMERA COMP	M CAN H TRM	M CAN H	V CAN H	SPEED	REVERSE SIG	MR OUTPUT	I	I	ı	1	-	1	MIC SIG	MIC GND	AUX AUDIO RH	AUX S HIE LD	1	RV CAM SIG	CAMERA GND	R CAMERA SHIELD
Color of Wire	_	1	Ь	æ	В	ı	1	٣	В	SB	8 S	٦	GR	9	В	_	_	ı	-	-	1	7	атэнѕ	W	SHIELD	_	В	Μ	SHIELD
Terminal No.	32	33	34	35	36	37	38	39	40	41	42	43	44	45	95	47	48	49	95	15	52	23	24	55	26	57	58	65	09

Connector No.	M96
Connector Name	AV CONTROL UNIT (WITH NAVIGATION SYSTEM WITHOUT BOSE)
Connector Color WHITE	WHITE



S ignal Name	M CAN L TRM	M CAN L	V CAN L	ı	PKB SIG	IGN	1	_	_	1	-
Color of Wire	ЫL	Pl	Ь	ı	\	۸	1	_	_	ı	-
Terminal No.	21	22	23	24	25	26	27	28	29	30	31

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S ignal Name	SPEED_8P	REVERSE_SIG	MR_OUTP UT	1	1	1	ı	1	-	MIC_S IG		AUX_AUDIO_RH		1	RV_CAM_SIG	-	
Color of Wire	GR	g	æ	-	1	-	ı	-	-	٦	SHIELD	W	SHIELD	1	В	_	SHIELD
Terminal No.	44	45	46	47	48	49	50	51	52	53	54	22	56	57	58	59	9

S ignal Name	1	1	1	ı	1	1	MIC_VCC	AUX_AUDIO_LH	AUX_AUDIO	ı	ı	1	R_CAMERA_COMP	M-CAN2_H	M-CAN1_H	V-CAN_H
Color of Wire	-	-	_	_	-	_	Ь	R	В	_	_	_	В	SB	SB	L
Terminal No.	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43

AV CONTROL UNIT (WITH NAVIGATION SYSTEM WITH BOSE)

Connector Name Connector Color

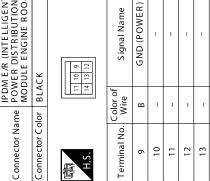
M103

Connector No.

WHITE

	35 36 37 38 39 40	54 55 56 57 58 59 60	lame	12-L	11_L	7_7		516		SLE_SIG
] /-	29 30 31 32 33 34	49 50 51 52 53 54	S ignal Name	M-CAN2-I	M-CAN1_L	V-CAN_L	1	PKB_SIG	NDI	AFFORBABLE_SIG
	26 27 28	44 45 46 47 48 4	Color of Wire	Pl	PT	Ь	1	٨	>	٦
	21 22 23 24 25	41 42 43 44 45	Terminal No. Wire	21	22	23	24	25	26	27

Connector No.	E 11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Color BLACK	BLACK



Connector No.	E9	
Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color BLACK	or BLA	CK
哥 H.S.		
Terminal No. Wire	olor of Wire	S ignal Name
1	R	F/L USM
2	g	F/L MAIN

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RR DEF

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S ignal Name	I	MS DOOH	I	HORN RLY CONT
Color of Wire	1	SB	1	M
Terminal No.	31	32	33	34

Connector No.	E 26
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Color GRAY	GRAY
赋 H.S.	0 3 5 4

5 4 1	S ignal Name	1	1	1	1	1	ı
	Color of Wire	0	ŋ	B/W	ВЖ	>	0
H.S.	Terminal No. Color of Wire	1	2	3	4	5	9

Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)



Color of Signal Name	_		R AUTO STOP SW	P CAN-CL	L CAN-CH	G DTRL RLY	1	1
Terminal No. $\begin{bmatrix} C_C \\ V \end{bmatrix}$	23	24	25	26	27	28	29	30

S ignal Name	1	_	1	1
Color of Wire	1	1	1	ı
Terminal No. Wire	69	70	71	72

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Connector No.	E12
Connector Name	IPDM E/R (INTELLIGEN POWER DISTRIBUTION MODULE ENGINE ROO
Connector Color BROWN	BROWN





H.S.		
	H.S.	

Signal Name	1	-	ı	GND (SIGNAL)	FR FOG/L RH	FR FOG/L LH	ı	1
Color of Wire	1	_	-	ВМ	X	>	1	_
Terminal No.	15	16	17	18	19	20	21	22

Connector No.	E17
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK





Signal Nam		DETENT S	1	PUSH START	1	IGN SIGNA
Color of	w Ire	8	1	>	1	0
Terminal No.	63	64	65	99	29	89

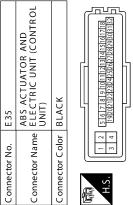
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S ignal Name	FR RH WHEEL SENSOR POWER SUPPLY	CAN-H	FR LH WHEEL SENSOR POWER SUPPLY		CAN2-L	RR LH WHEEL SENSOR POWER SUPPLY	FR LH WHEEL SENSOR SIGNAL	G SENSOR GND	G SENSOR SIGNAL (-)	RR LH WHEEL SENSOR SIGNAL		PRESS SENSOR GND
Color of Wire	В	_	~	1	>	В	>-	œ	>-	9	1	0/7
Terminal No.	21	22	23	24	25	56	27	28	29	30	31	32

S ignal Name	CAN-L	PRESS SENSOR POWER SUPPLY	RR RH WHEEL SENSOR POWER SUPPLY	FR RH WHEEL SENSOR SIGNAL	G SENSOR POWER SUPPLY	G SENSOR SIGNAL (+)	RR RH WHEEL SENSOR SIGNAL	POWER SWITCH ON				CAN2-H
Color of Wire	Р	W/L	BR	W	G	В	LG	^	-	1	-	Г
Terminal No.	6	10	11	12	13	14	15	16	17	18	19	20

	INTELLIGENT KEY WARNING BUZZER	BROWN	23	S ignal Name	1	-	ı
. E28				Color of Wire	ÐП	_	GR
Connector No.	Connector Name	Connector Color	呵到 H.S.	Terminal No.	1	2	3



Wire Wire B B B B B C O O O O O S B C C O O O O O O O O O O O O O O O O O		-	
S S S S S S S S S S S S S S S S S S S	Terminal No.	Color of Wire	S ignal Name
S S S S S S S S S S S S S S S S S S S		g	MOTOR BATTERY
S S S S S S S S S S S S S S S S S S S		ж	VALVE BATTERY
N		В	GROUND
ο ο Γ/ <i>Υ</i>		В	GROUND
0		Ь	ESP OFF SW SIGNAL
L/Y		0	BRAKE SW SIGNAL
SB		Г/Υ	PRESS SENSOR SIGNAL
	8	SB	STOP LAMP SW SIGNAL

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_																								
S ignal Name	CHARGE PORT LID OPENER ACTUATOR RELAY	EV SYSTEM CAN-H	EV SYSTEM CAN-L	SYSTEM MAIN RELAY 2	READY SIGNAL	VENC	N POSITION OUTPUT (SELECT INDICATOR)	D POSITION OUTPUT (SELECT INDICATOR)	SENSOR POWER SUPPLY (ACCELERATOR PEDAL POSITION SENSOR 1)	MOTOR COIL A W-PHASE	PRE-CHARGE RELAY	ENCODER SIGNAL B	ENCODER SIGNAL A	P POSITION OUTPUT (SELECT INDICATOR)	P/N POSITION SIGNAL	P POSITION SIGNAL	ACCELERATOR PEDAL POSITION SENSOR 1	POWER ON POWER SUPPLY	SYSTEM MAIN RELAY 1	ENCODER GROUND	ELECTRIC SHIFT SENSOR GND 1	VCM GROUND	SENSOR GROUND (ACCELERATOR PEDAL POSITION SENSOR 1)	VCM GROUND
Color of Wire	Ж		9	œ	W	В	٦	R	*	R	В	Ь	>	В	P P	×	œ	œ	W	g	0	B/R	В	В
Terminal No.	23	24	25	28	30	32	33	34	36	39	40	44	45	46	47	48	49	51	54	99	57	58	62	65

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				22		56	39	5	1	9	
			lh.	12	Π	25	38	П	12	64	lſ
			\mathbb{H}	10 11 12	Ш	24	3 5	Ш	25	63	l
				10	\parallel	23	36 37	Ш	49	62]
				6	Ш	22	35	Ш	48	61	
			Н	∞	ш	15 16 17 18 19 20 21 22 23 24	34	Ш	46 47	59 60 61 62 63	۱,
				_		20	33		46		11
			H	9	п	19	29 30 31 32		45	28	ľ
		~		2	\parallel	18	31	Ш	44	57] r
_	Σ	12		4	\parallel	17	30	Ш	43	56	Jί
E 61	NC M	BLACK	L	m	\parallel	16	29	Ш	42	54 55 56 57	
ш-				2	Ц	15	28	Ц	41	54	
٠.	Ĕ	ò	r	-		14	27	04	2	23	
ž	Ž	ပြ	L		_				_		<u></u>
Connector No.	Connector Name	Connector Color		V I							
ပိ	ů	ů	B	_							

Terminal No.	Color of Wire	Signal Name
-	8	MOTOR COIL A U-PHASE
3	*	ELECTRIC SHIFT SENSOR NO.5
5	ΓG	F/S RELAY POWER SUPPLY
7	0/L	ELECTRIC SHIFT SENSOR POWER SUPPLY 1
8	W	F/S CHG RELAY
6	S B	PARKING ACTUATOR RELAY A
11	BR	12V BATTERY POWER SUPPLY
13	S B	MOTOR COIL A V-PHASE
16	æ	ELECTRIC SHIFT SENSOR NO.3
17	В	ELECTRIC SHIFT SENSOR NO.1
18	>-	R POSITION OUTPUT (SELECT INDICATOR)
19	W	WATER PUMP SIGNAL
20	9	WATER PUMP SIGNAL
21	GR	F/S RELAY

Connector No.	E45
Connector Name	Connector Name LAMP RH (WITH HALOGEN HEADLAMPS)
Connector Color GRAY	GRAY

6 5 2 4	Signal Name	1	ı	1	1	I	1
	Color of Wire	0	>	ВЛ	ВW	ŋ	Ь
H.S.	erminal No.	-	2	3	4	5	9

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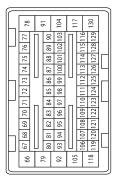
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Terminal No.	Color of Wire	S ignal Name
110	>	COOLANT TEMPERATURE SENSOR
111	SB	ASCD STEERING SWITCH
112	В	P POSITION SW NO.2
113	0	BRAKE PEDAL POSITION SWITCH
115	>	CHARGING STATUS INDICATOR 1
116	SB	A/C RELAY
117	PT	CHARGE CONNECTOR LOCK ACTUATOR (+)
118	В	VCM GROUND
120	Г	SENSOR GROUND (BATTERY CURRENT SENSOR)
121	W	SENSOR GROUND (COOLANT TEMPERATURE SENSOR)
122	В	SENSOR GROUND (ACCELERATOR PEDAL POSITION SENSOR 2)
123	BR	SENSOR GROUND (REFRIGERANT PRESSURE SENSOR)
124	W/L	ELECTRIC SHIFT SENSOR GND 2
125	BR	ASCD STEERING SWITCH GROUND
126	B/R	VCM GROUND
128	>	COOLING FAN CONTROL SIGNAL
129	Y	IMMEDIATE CHARGING SWITCH
130	W	CHARGE CONNECTOR LOCK ACTUATOR (-)

Terminal No.	Color of Wire	S ignal Name
87	>	CHARGE CONNECTOR LOCK SWITCH INDICATOR (LOCK)
88	SB	3E L⊅
89	BR	CHARGING STATUS INDICATOR 2
06	9	CHARGING STATUS INDICATOR 3
91	0	CHARGE CONNECTOR LOCK SWITCH INDICATOR (AUTO)
93	BR	CHARGE PORT ID OPENER SWITCH
94	0	CHARGE CONNECTOR LOCK SWITCH (LOCK)
95	>	BATTERY CURRENT SENSOR
96	Ж	SENSOR POWER SUPPLY (BATTERY CURRENT SENSOR)
97	W	SENSOR POWER SUPPLY (ACCELERATOR PEDAL POSITION SENSOR 2)
86	Γ	SENSOR POWER SUPPLY (REFRIGERANT PRESSURE SENSOR)
66	R	P POSITION SW NO.1
101	Ь	STOP LAMP SWITCH
103	_	PLUG IN INDICATOR LAMP
104	R	CHARGE CONNECTOR LOCK RELAY POWER SUPPLY
107	T	BATTERY TEMPERATURE SENSOR
108	œ	ACCELERATOR PEDAL POSITION SENSOR 2
109	В	REFRIGERANT PRESSURE SENSOR





S ignal Name	CONNECTION DETECTING CIRCUIT SIGNAL	CONNECTION DETECTING CIRCUIT POWER SUPPLY	POWER ON POWER SUPPLY	CAN-H	CAN-L	CHARGE CONNECTOR LOCK RELAY	12V BATTERY POWER SUPPLY	CHARGE CONNECTOR LOCK SWITCH (AUTO)	CHARGE PORT LIGHT	ELECTRIC SHIFT SENSOR POWER SUPPLY 2	ELECTRIC SHIFT SENSOR NO.2	ELECTRIC SHIFT SENSOR NO.4	ELECTRIC SHIFT SENSOR NO.6
Color of Wire	۵	0	ŋ	٦	Ь	SB	R	T	GR	W	≽	9	9
Terminal No.	72	73	74	75	9/	78	79	81	82	83	84	85	86

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Connector Color H.S. Terminal No. Color 2		HEADLAMPS)		HFA	רוי (יייו הרט	Change		WILLE	
Connector Co				_	HE ADLAMPS)		_		
H.S. Terminal No.		Y)	Connector Color	olor BLACK	¥			- E	
Terminal No.		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(京司) H.S.	4 6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	H.S.		1 2	
1 2	Color of Wire	Signal Name	Terminal No.	Color of Wire	S ignal Name	Terminal No.	Color of Wire	Signal Name	
2	P	1	-	æ	1	-	8	ı	
	_	1	2	۵	1	2	SB	ı	
3	BR	1	3	BR	1	e e	В	1	
4	0	1	4	0	1	5	۵	1	
5	9	I	5	Y	-				
9	B/W	1	9	٦	- (WITH DTRL)				
7	B/W	1	9	ВΛ	- (WITHOUT DTRL)				
8	\	I	7	ВЛ	-				
6	В	– (WITH DTRL)	8	G	-				
6	B/W	- (WITHOUT DTRL)	6	В	- (WITH DTRL)				
10	1	1	6	ВЛ	- (WITHOUT DTRL)				
			10	ı	1				
Connector No.	o. B41		Connector No.	o. B48		Connector No.	r No. B49	6	
Connector Name	ame LUG	LUGGAGE ROOM LAMP	Connector Name		FRONT DOOR SWITCH	Connector Name		FRONT DOOR SWITCH	H
Connector Color	olor WHITE] 	Connector Color		TE	C onnector C olor	_	WHITE	
明.S.	الثلثا		S.H.		2 3 4	THE STATE OF THE S		2 3 4	
Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	S ignal Name	Terminal No.	No. Color of	S ignal Name	ā
-	BR	1	-	1	1	-	1	1	
2	_	1	2	1	1	2	I	1	
			3	SB	ı	К	BR	1	
			4	1	1	4	1	1	
C	N	ВС	J	ı	G	E		E	
)	J	-)		

Connector No. Connector Color	No. B53 Name REAR I Color WHITE	Connector No. B53 Connector Color WHITE To a state of the state of t	Connector No. Connector Name Connector Color	 	8# I 	Connector No. Connector Name Connector Color	o. B71 ame REAR I olor WHITE	Connector No. B71 Connector Color WHITE To a file 2 3 4
Terminal No.	o. Color of Wire	S ignal Name	H.S. Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	S ignal Name
- 6	1	1		: ט	1	- (ı	1
3 2	1 &	1 1	3 2	> 1	1 1	3 2	- P1	1 1
4	1	1	4	>	1	4	1	1
			O	>	1			
Connector No.	No. B80		Connector No.). B81		Connector No.	o. B82	
Connector Name		REAR COMBINATION LAMP LH	Connector Name		INSIDE KEY ANTENNA (REAR SEAT)	Connector Name	ame INS	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Color	Color WHITE	IITE	Connector Color	olor BLUE	JE	Connector Color	olor BLUE	JE
师和 H.S.	9	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	同可 H.S.			同句 H.S.		
Terminal No.	o. Color of Wire	S ignal Name	Terminal No.	Color of Wire	S ignal Name	Terminal No.	Color of Wire	S ignal Name
1	G	1	1	G	1	1	۸	-
2	۵	1	2	æ	1	2	ΓG	ı
3	1	1						
4	SB	-						
5	В	ı						
9	GR	I						

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Connector No. R4
Connector Name MAP LAMP

Connector Color WHITE

	Connector No.	lo. D6	
ИΡ	Connector N	ame OU	Connector Name OUTSIDE KEY ANTENNA (DRIVER SIDE)
	Connector Color GRAY	olor GR/	4Y
	原动 H.S.		
Signal Name	Terminal No. Wire	Color of Wire	Signal Name
	-	۵	1
	C	>	ı

Signal Name	MOTOR UP RR	MOTOR DN RL	MOTOR UP RL	IGN	-	ENCODER GND	-	ENCODER +	UNLOCK SW	MOTOR UP AS
Color of Wire	FG	BR	Ь	>	_	œ	-	В	BR	8
Terminal No. Color of Wire	7	8	6	10	11	12	13	14	15	16

12 13 14 15 16	Signal Name	GND	MOTOR DN AS	LOCK SW	ENCODER SIG2	ENCODER SIG1	MOTOR DN RR
7 6 5 4 8 9 10 11	Color of Wire	В	SB	Y	Μ	У	Υ
H.S.	Terminal No. Wire	-	2	3	4	5	9

Connector No.). B83		
Connector Name	ame OU	OUTSIDE KEY ANTENNA (REAR BUMPER)	
Connector Color BLUE	olor BLL	E	
原 H.S.			
Terminal No. Wire	Color of Wire	Signal Name	
1	M	-	
2	В	1	

Color of Wire

Terminal No.

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Connector No.	. D15	
Connector Name		FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
Connector Color BLACK	or BL/	IOK
原动 H.S.		F -
Terminal No. Color of Wire	Color of Wire	Signal Name
-	LG	ı

Connector Name POWER WINDOW MAIN SWITCH

D35

Connector No.

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9 4

Connector Color WHITE

Sign			
Color of Wire	LG	В	
Terminal No.	-	2	

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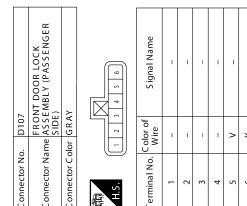
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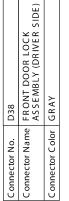
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7	FRONT DOOR LOCK Connector Name ASSEMBLY (PASSENGER SIDE)	١٨	3 4 5 6	S ignal Name	ı	Î	-	-	Î	
. D107	FRON me ASSEI SIDE)	lor GR	1 2	Color of Wire	1	1	1	1	>	
Connector No.	Connector Na	Connector Color GRAY	H.S.	Terminal No.	-	2	3	4	5	







Signal Name	-	ı	-	-	ı	-
Color of Wire	۸	SB	9	В	7	R
erminal No.	1	2	3	4	5	9

S ignal Name	-	ı	1	-	ı	ı	I
Color of Wire	Y	R	æ	-	-	SB	Μ
Terminal No. Color of Wire	9	7	8	6	10	11	12

D36	onnector Name POWER WINDOW MAIN SWITCH	WHITE	
onnector No.	onnector Name	onnector Color WHITE	

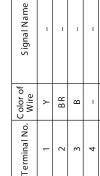




Signal Name	MOTOR UP DR	+B	MOTOR DN DR	
Color of Wire	R	æ	GR	
erminal No.	17	18	19	

Connector No. D104	D104
Connector Name	Connector Name FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Color WHITE	WHITE
	2 3 4 5 7 8 9 10 11 12



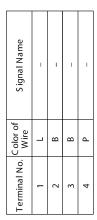




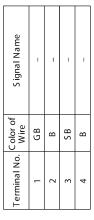
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Connector Name (OU SIDE KEY AN I ENNA (PASSENGER SIDE) Connector Color of Signal Name 1
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D563	Connector Name BACK DOOR OPENER SWITCH ASSEMBLY	GRAY	1 2 3 4
Connector No.	Connector Name	Connector Color GRAY	H.S.











S ignal Name	1	=	-	ı
Color of Wire	ı	Μ	٦e	В
Terminal No. Wire	1	2	3	4

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

BASIC INSPECTION

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description

INFOID:0000000008744149

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BEFORE REPLACEMENT

When replacing BCM, 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 BCM.

AFTER REPLACEMENT

CAUTION:

- When replacing BCM, 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.
- When replacing BCM, perform the system initialization (NATS).

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Work Procedure INFOID:0000000008744150

1. SAVING VEHICLE SPECIFICATION

(P)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 BCM.

>> GO TO 2

2.REPLACE BCM

Replace BCM. Refer to BCS-86, "Removal and Installation".

>> GO TO 3.

3.WRITING VEHICLE SPECIFICATION

(P)CONSULT

- 1. Enter "Re/Programming, Configuration".
- 2. If "Before Replace ECU" operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press "Confirm" to write vehicle specification. Refer to BCS-74, "CONFIGURATION (BCM): Work Procedure".
- 3. If "Before Replace ECU" operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to BCS-74, "CONFIGURATION (BCM): Work Procedure".

>> GO TO 4.

4. INITIALIZE BCM (NATS)

Perform BCM initialization. (NATS)

>> Work End.

CONFIGURATION (BCM)

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

CONFIGURATION (BCM): Description

INFOID:0000000008744151

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

Function	Description
"Before Replace ECU"	Reads the vehicle configuration of current BCM.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 BCM, you must perform "Select Saved Data List" or "After Replace ECU" with CON-SULT.
- 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 BCM.

CONFIGURATION (BCM): Work Procedure

INFOID:0000000008744152

1. WRITING MODE SELECTION

CONSULT

Select "Reprogramming, Configuration" of BCM.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

2.PERFORM "SAVED DATA LIST"

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"

(E)CONSULT

- Select "After Replace ECU" or "Manual Configuration".
- Identify the correct model and configuration list. Refer to <u>BCS-75</u>, "CONFIGURATION (BCM): Configuration list".
- 3. Confirm and/or change setting value for each item.

CAUTION:

Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.

4. Select "Next".

CAUTION:

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

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

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> Work End.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

CONFIGURATION (BCM): Configuration list

INFOID:0000000008744153

CAUTION:

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

MANUAL SETTING ITEM		
Items	Setting value	
DTRL	WITHOUT ⇔ WITH	
AUTO LIGHT	WITHOUT ⇔ WITH	

⇔: Items which confirm vehicle specifications

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TRANSIT MODE CANCEL OPERATION

< BASIC INSPECTION >

TRANSIT MODE CANCEL OPERATION

Description INFOID:000000009345700

• BCM is in transit mode if turn signal indicator on combination meter turns ON for 1 minute when ignition switch is turned from OFF to ON.

· In this case, cancel operation must be performed.

NOTE:

Do not cancel transit mode during storage of the vehicle. Always cancel transit mode before delivery of the vehicle to customer.

Work Procedure

1. TRANSIT MODE CANCEL OPERATION

- 1. Turn ignition switch OFF.
- 2. Turn and hold front wiper switch to HI, and then operate turn signal switch to RH or LH.

>> GO TO 2.

2.transit mode cancel check

- 1. Turn front wiper switch and turn signal switch OFF.
- 2. Turn ignition switch ON.
- 3. Check that turn signal indicator on combination meter does not turn ON.

>> WORK END

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000008744154

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

CAN Communication Signal Chart. Refer to <u>LAN-36</u>, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM [U1000]	BCM cannot communicate with CAN communication signal for 2 seconds or more.	CAN communication system

Diagnosis Procedure

INFOID:0000000008744156

1.PERFORM SELF DIAGNOSTIC

- Turn power switch ON and wait for 2 seconds or more.
- 2. Check Self Diagnostic Result of BCM.

Is DTC U1000 displayed?

YES >> Refer to LAN-16, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-53, "Intermittent Incident".

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Revision: October 2013 BCS-77 2013 LEAF

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	BCM detected internal CAN communication circuit malfunction.	ВСМ

Diagnosis Procedure

INFOID:0000000008744158

1.REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to BCS-86, "Removal and Installation".

U0293 HV C/U CAN COMM

< DTC/CIRCUIT DIAGNOSIS >

U0293 HV C/U CAN COMM

DTC Logic

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
HV C/U CAN COMM [U0293]	VCM status signal received from VCM remains abnormal for 2 seconds or more.	• BCM • VCM

DTC CONFIRMATION PROCEDURE

1.DTC CONFIRMATION

- Erase the DTC.
- 2. Turn power switch OFF.
- 3. Perform Self Diagnostic Result of BCM with CONSULT, after the power switch has been turned ON for 2 seconds or more.

Is DTC U0293 detected?

YES >> Refer to BCS-79, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

1.VCM SELF-DIAG RESULTS

Perform Self-Diagnostic Result of VCM with CONSULT. Refer to EVC-102, "DTC Index".

Are any DTCs detected?

YES >> Repair or replace the malfunctioning part.

NO >> Replace BCM. Refer to BCS-86, "Removal and Installation".

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Revision: October 2013 BCS-79 2013 LEAF

U0415 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

U0415 VEHICLE SPEED

Description INFOID:000000008744161

U0415 is displayed if any unusual condition is present in the reception status of the vehicle speed signal from the ABS actuator and electric unit (control unit).

DTC Logic

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
VEHICLE SPEED [U0415]	Vehicle speed signal received from ABS actuator and electric unit (control unit) remains abnormal for 2 seconds or more.	ABS actuator and electric unit (control unit) BCM

DTC CONFIRMATION PROCEDURE

1.DTC CONFIRMATION

- Erase the DTC.
- 2. Turn power switch OFF.
- Perform Self Diagnostic Result of BCM with CONSULT, after the power switch has been turned ON for 2 seconds or more.

Is DTC U0415 detected?

YES >> Refer to BCS-80, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000008744163

$1.\mathsf{abs}$ actuator and electric unit (control unit) self-diag results

Perform Self-Diagnostic Result of ABS actuator and electric unit (control unit) with CONSULT. Refer to BRC-57, "DTC Index".

Are any DTCs detected?

YES >> Repair or replace the malfunctioning part.

NO >> Replace BCM. Refer to BCS-86, "Removal and Installation".

B2562 LOW VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

B2562 LOW VOLTAGE

DTC Logic

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
LOW VOLTAGE [B2562]	Power supply voltage to BCM remains less than 8.8 V for 120 seconds or more	Harness or connector (power supply circuit)

DTC CONFIRMATION PROCEDURE

1.DTC CONFIRMATION

- 1. Erase DTC.
- 2. Turn power switch OFF.
- Perform Self Diagnostic Result of BCM with CONSULT, after the power switch has been turned ON for 120 seconds or more.

Is DTC B2562 detected?

YES >> Refer to BCS-81, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit. Refer to BCS-82, "Diagnosis Procedure".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-86, "Removal and Installation".

NO >> Repair or replace harness or connectors.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000008744166

1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Terminal No.	Signal name	Fuse and fusible link No.
57	Battery power supply	9 (10A)
70		H (40A)

Is the fuse or fusible link blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect BCM connector M25.
- Check voltage between BCM connector M25 and ground.

BCM		Ground	Voltage	
Connector Terminal		Ground	(Approx.)	
M25	57		Battery voltage	
	70	_	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 BCM connector M25 and ground.

BCM		Ground	Continuity	
Connector Terminal		Ground	Continuity	
M25	67	_	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000008744168

1. CHECK INPUT 1 - 5 CIRCUIT FOR OPEN

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- 1. Turn power switch OFF.
- 2. Disconnect BCM connector M24 and combination switch connector.
- 3. Check continuity between BCM connector M24 and combination switch connector M27.

Combination switch signal Connect	В	СМ	Combina	tion switch	Continuity
	Connector	Terminal	Connector	Terminal	Continuity
INPUT 1		36		11	
INPUT 2		35		9	
INPUT 3	M24	34	M27	7	Yes
INPUT 4		33		10	
INPUT 5		32		13	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2.CHECK INPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM connector M24 and ground.

Combination switch	BCM		Ground	Continuity	
signal	signal Connector	Terminal	Ground	Continuity	
INPUT 1		36			
INPUT 2		35			
INPUT 3	M24	34	_	No	
INPUT 4		33			
INPUT 5		32			

Is the inspection result normal?

YES >> Repair or replace harness or connectors.

NO >> GO TO 3.

3.CHECK BCM OUTPUT VOLTAGE

- 1. Connect BCM connector M24.
- 2. Check voltage between BCM connector M24 and ground.

BCM signal	В	CM		Voltage	Ν
BCIVI SIGNAI	Connector	Terminal		(Approx.)	
OUTPUT 1		36			
OUTPUT 2		35	Ground		0
OUTPUT 3	M24	34		Refer to <u>BCS-28, "Refer-</u> ence Value".	
OUTPUT 4		33		<u>0.100 Vallao</u> .	Р
OUTPUT 5		32			

Is the inspection result normal?

YES >> Replace combination switch. Refer to BCS-87, "Removal and Installation".

NO >> Replace BCM. Refer to BCS-86, "Removal and Installation".

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COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000008744167

1. CHECK OUTPUT 1 - 5 CIRCUIT FOR OPEN

- 1. Turn power switch OFF.
- 2. Disconnect BCM connector M24 and combination switch connector.
- 3. Check continuity between BCM connector M24 and combination switch connector M27.

Combination switch	В	СМ	Combina	Continuity			
signal	Connector	Terminal	Connector	Terminal	Continuity		
OUTPUT 1		6		12			
OUTPUT 2		5		14			
OUTPUT 3	M24	4	M27	5	Yes		
OUTPUT 4		3		2			
OUTPUT 5		2		8			

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2. CHECK OUTPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM connector M24 and ground.

Combination switch	В	CM	Ground	Continuity			
signal	Connector	Terminal	Giodila	Continuity			
OUTPUT 1		6					
OUTPUT 2	M24	5					
OUTPUT 3		4	_	No			
OUTPUT 4		3					
OUTPUT 5		2					

Is the inspection result normal?

YES >> Repair or replace harness or connectors.

NO >> GO TO 3.

3. CHECK BCM INPUT VOLTAGE

- 1. Connect BCM connector M24 and combination switch connector.
- 2. Turn power switch ON.
- 3. Check voltage between BCM connector M24 and ground.

RCM signal	В	СМ		Voltage
BCM signal INPUT 1 INPUT 2 INPUT 3 INPUT 4	Connector	Terminal		(Approx.)
INPUT 1		6		
INPUT 2		5	Ground	
INPUT 3	M68	4		Refer to <u>BCS-28</u> , "Refer- ence Value".
INPUT 4		3		
INPUT 5		2		

Is the inspection result normal?

Yes >> Replace BCM. Refer to BCS-86, "Removal and Installation".

No >> Replace combination switch. Refer to <u>BCS-87</u>, "Removal and Installation".

COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table INFOID:0000000008744169

- 1. Perform Data Monitor of CONSULT to check for any malfunctioning item.
- 2. Check the malfunction combinations.

Malfunction item: ×

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	Data Monitor Item																
Malfunction combination	FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	INT VOLUME	RR WIPER ON	RR WIPER INT	RR WASHER SW	TURN SIGNAL R	TURN SIGNAL L	TAIL LAMP SW	HI BEAM SW	HEAD LAMP SW 1	HEAD LAMP SW 2	PASSING SW	AUTO LIGHT SW	FR FOG SW
А		×	×						×	×							
В	×			×									×		×		
С					×			×				×		×			
D					×		×				×					×	
Е					×	×											×
F	×				×		×										
G			×		×	×		×									
Н		×		×												×	
I										×				×	×		×
J									×		×	×	×				
K		li .	li .	1	1	1	1	,	All Iten	ns	1	1	1	1	1	1	1
L		If only one item is detected or the item is not applicable to combinations A to K															

3. Identify the malfunctioning part from the combinations and repair or replace the part.

Malfunction combination	Malfunctioning part	Repair or replace	
А	Combination switch INPUT 1 circuit		
В	Combination switch INPUT 2 circuit		
С	Combination switch INPUT 3 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-83, "Diagnosis Procedure".	В
D	Combination switch INPUT 4 circuit	para Holor to <u>1900 to. Pragriculo i recognico.</u>	
Е	Combination switch INPUT 5 circuit		
F	Combination switch OUTPUT 1 circuit		
G	Combination switch OUTPUT 2 circuit		
Н	Combination switch OUTPUT 3 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to <u>BCS-84</u> . " <u>Diagnosis Procedure</u> ".	
I	Combination switch OUTPUT 4 circuit	. Ing part into on to good in the great into one of the great into	
J	Combination switch OUTPUT 5 circuit		
K	ВСМ	Replace BCM. Refer to BCS-86, "Removal and Installation".	
L	Combination switch	Replace combination switch. Refer to BCS-87, "Removal and Installation".	

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REMOVAL AND INSTALLATION

BCM

Removal and Installation

INFOID:0000000008744170

NOTE:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-73, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description".

REMOVAL

- 1. Disconnect the 12V battery cable from the negative terminal. Refer to PG-65, "Removal and Installation".
- 2. Remove glove box cover assembly. Refer to IP-17, "Removal and Installation".
- 3. Remove BCM screws, slide BCM bracket upward to release locating hook and locating pin.
- 4. Disconnect the harness connectors from the BCM and remove.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to perform "WRITE CONFIGURATION" when replacing BCM. Refer to <u>BCS-73</u>, "ADDITIONAL <u>SERVICE WHEN REPLACING CONTROL UNIT (BCM)</u>: <u>Description"</u>.

NOTE:

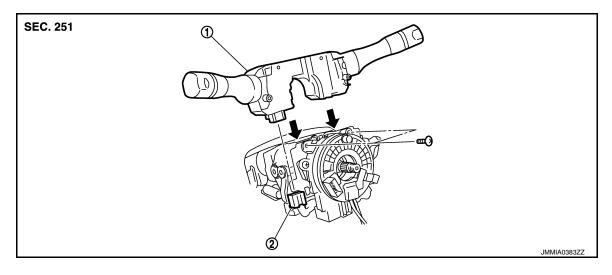
Be sure to perform the system initialization (NATS) when replacing BCM. Refer to <u>BCS-73</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Work Procedure".

COMBINATION SWITCH

< REMOVAL AND INSTALLATION >

COMBINATION SWITCH

Exploded View



1. Combination switch

2. Combination switch connector

Removal and Installation

REMOVAL

- 1. Disconnect the 12V battery cable from the negative terminal. Refer to PG-65, "Removal and Installation".
- 2. Remove steering column covers (upper/lower). Refer to IP-17, "Removal and Installation".
- 3. Remove screws.
- 4. Disconnect the harness connector.
- 5. Pull up the combination switch and remove.

INSTALLATION

Install in the reverse order of removal.

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