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#### **PRECAUTIONS**

#### < PRECAUTION >

### **PRECAUTION**

#### **PRECAUTIONS**

Precaution for Technicians Using Medical Electric

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#### 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:**

- 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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#### **PRECAUTIONS**

#### < PRECAUTION >

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** 

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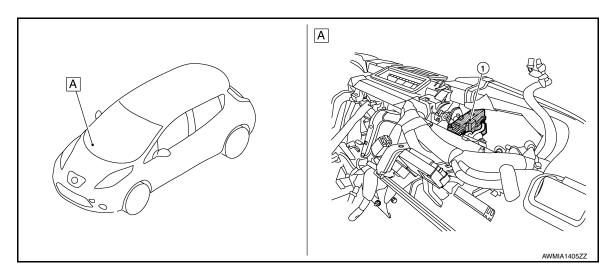
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- BCM
- A. Behind RH side of instrument panel

### POWER CONSUMPTION CONTROL SYSTEM

# POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location INFOID:000000010642137

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- Combination meter
   Refer to MWI-6, "METER SYSTEM:
   Component Parts Location".
- IPDM E/R
   Refer to PCS-7, "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 Location".

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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-15, "HEADLAMP SYSTEM : System Description"
Auto light system	EXL-16, "AUTO LIGHT SYSTEM (EXCEPT FOR CANADA):  System Description"
Daytime running light system	EXL-19, "DAYTIME RUNNING LIGHT SYSTEM : System Description"
Turn signal and hazard warning lamp system	EXL-20, "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-22, "FRONT FOG LAMP SYSTEM : System Description"
Exterior lamp battery saver system	EXL-23, "EXTERIOR LAMP BATTERY SAVER SYSTEM: System Description"
Interior room lamp control system	INL-9. "INTERIOR ROOM LAMP CONTROL SYSTEM: System Description"
Interior room lamp battery saver system	INL-11, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM: System Description"
Front wiper and washer system	WW-10, "FRONT WIPER AND WASHER SYSTEM: System Description"
Rear wiper and washer system	WW-13, "REAR WIPER AND WASHER SYSTEM : System Description"
Warning chime system	WCS-6, "WARNING CHIME SYSTEM : System Description"
Power door lock system	DLK-23. "System Description"
Intelligent Key system	DLK-25, "INTELLIGENT KEY SYSTEM : System Description"
Back door opener system	DLK-36, "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-10, "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

<sup>\*: &</sup>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

- More than 1 minute is passed after the rear wiper stop.
- 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.

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

#### COMBINATION SWITCH READING SYSTEM

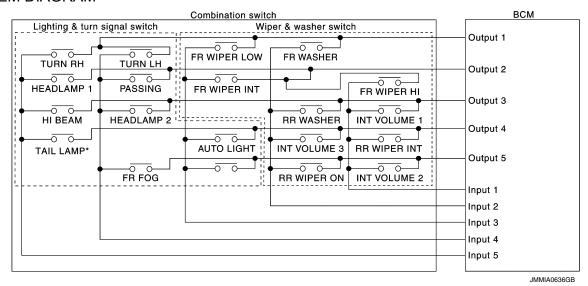
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### COMBINATION SWITCH READING SYSTEM: System Description

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#### SYSTEM DIAGRAM



#### NOTE:

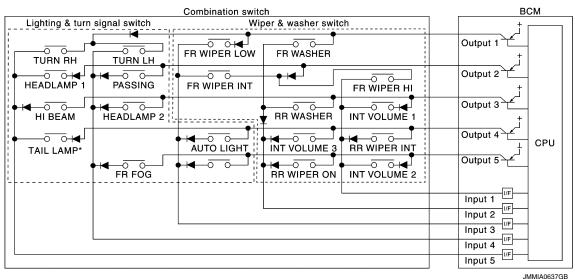
\*: TAIL LAMP switch links lighting switch 1ST and 2ND positions.

#### **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

o o i i i o i i o i i o i i	11011 1111 01 0011 01 070	tonn not			
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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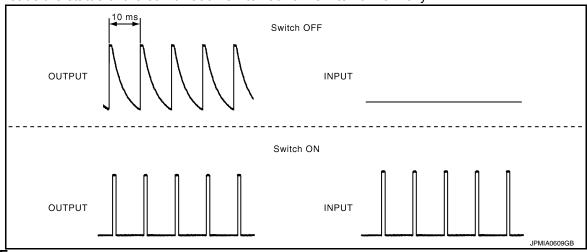
#### NOTE:

Headlamp has a dual system switch.

#### COMBINATION SWITCH READING FUNCTION

#### Description

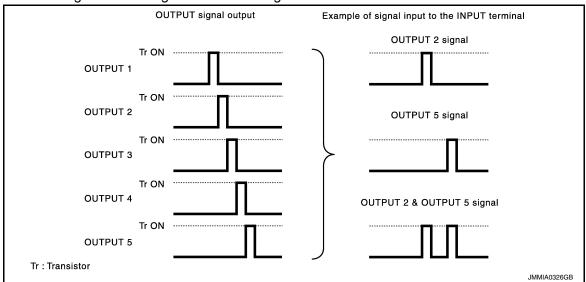
• BCM reads the status of the combination switch at 10 ms interval normally.



#### 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.

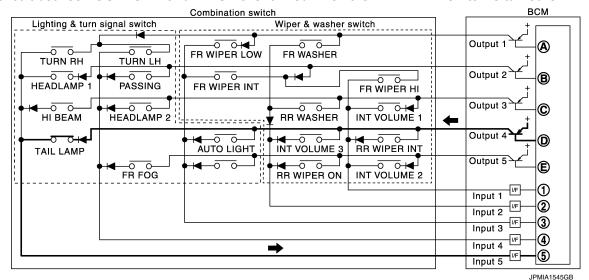


#### Operation Example

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".

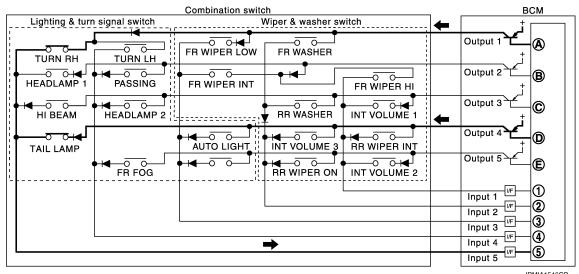
Example 1: When a switch (TAIL LAMP switch) is turned ON

• 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 <a href="WW-10">WW-10</a>, "FRONT WIPER AND WASHER SYSTEM: System Description".

#### SIGNAL BUFFER SYSTEM

### SIGNAL BUFFER SYSTEM : System Description

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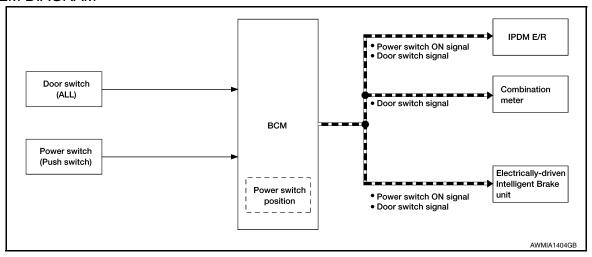
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#### SYSTEM DIAGRAM



#### **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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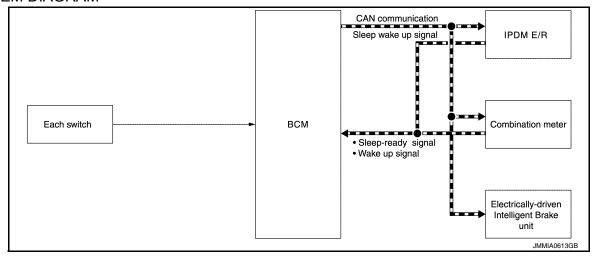
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### POWER CONSUMPTION CONTROL SYSTEM: System Description

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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 >

CAN sleep condition	BCM sleep condition
<ul> <li>Receiving the sleep-ready signal (ready) from all units</li> <li>1 minute after turning power switch OFF</li> <li>Theft warning alarm and panic alarm: Not operation</li> <li>Warning chime: Not operation</li> <li>Intelligent Key system buzzer: Not operation</li> <li>Stop lamp switch: OFF</li> <li>Turn signal indicator lamp: Not operation</li> <li>Exterior lamp: OFF</li> <li>Door lock status: No change</li> <li>CONSULT communication status: Not communication</li> <li>Meter display signal: Non-transmission</li> <li>Door switch status: No change</li> <li>Driver door lock status: No change</li> </ul>	<ul> <li>Interior room lamp battery saver: Time out*</li> <li>RAP system: Not operation</li> <li>Nissan Vehicle Immobilizer System (NVIS) - NATS: Not operation</li> <li>Remote keyless entry receiver communication status: No communication</li> <li>Tire pressurer monitoring system (TPMS): Stop</li> <li>ACC/ON indicator lamp: Not operation</li> </ul>
IOTE:	
	SYSTEM: System Description" for details of the interior room lamp bat-
ery saver time.	
Vake-up operation	
	each unit when any condition listed below is established,
and then goes into normal mode from low power of	
Each unit starts transmissions with CAN communi	ication by receiving sleep wake up signals. Each unit trans-
Each unit starts transmissions with CAN communication mit wake up signals to BCM with CAN communications.	ication by receiving sleep wake up signals. Each unit trans-
<ul> <li>Each unit starts transmissions with CAN communi- mit wake up signals to BCM with CAN communication</li> </ul> Vake-up condition	ication by receiving sleep wake up signals. Each unit trans- ation to convey the start of CAN communication.
<ul> <li>Each unit starts transmissions with CAN communi- mit wake up signals to BCM with CAN communication</li> </ul> Wake-up condition Wake	ication by receiving sleep wake up signals. Each unit trans- ation to convey the start of CAN communication.
Each unit starts transmissions with CAN communi- mit wake up signals to BCM with CAN communication      Wake-up condition      Wake     Receiving the sleep-ready signal (Not-ready) from any units	ication by receiving sleep wake up signals. Each unit trans- ation to convey the start of CAN communication.
<ul> <li>Each unit starts transmissions with CAN communimit wake up signals to BCM with CAN communication</li> <li>Wake-up condition</li> <li>Wake</li> <li>Receiving the sleep-ready signal (Not-ready) from any units</li> <li>Power switch (push switch): OFF→ ON</li> </ul>	ication by receiving sleep wake up signals. Each unit trans- ation to convey the start of CAN communication.
<ul> <li>Each unit starts transmissions with CAN communimit wake up signals to BCM with CAN communication</li> <li>Wake-up condition</li> <li>Wake</li> <li>Receiving the sleep-ready signal (Not-ready) from any units</li> <li>Power switch (push switch): OFF→ ON</li> <li>Hazard switch: ON</li> </ul>	ication by receiving sleep wake up signals. Each unit trans- ation to convey the start of CAN communication.
<ul> <li>Each unit starts transmissions with CAN communimit wake up signals to BCM with CAN communication</li> <li>Wake-up condition</li> <li>Wake</li> <li>Receiving the sleep-ready signal (Not-ready) from any units</li> <li>Power switch (push switch): OFF→ ON</li> </ul>	ication by receiving sleep wake up signals. Each unit trans- ation to convey the start of CAN communication.
<ul> <li>Each unit starts transmissions with CAN communimit wake up signals to BCM with CAN communication.</li> <li>Wake-up condition</li> <li>Receiving the sleep-ready signal (Not-ready) from any units</li> <li>Power switch (push switch): OFF→ ON</li> <li>Hazard switch: ON</li> <li>HI BEAM switch: OFF → ON, ON → OFF</li> <li>PASSING switch: OFF → ON, ON → OFF</li> <li>HEADLAMP 1 switch: OFF → ON, ON → OFF</li> </ul>	ication by receiving sleep wake up signals. Each unit trans- ation to convey the start of CAN communication.
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Each unit starts transmissions with CAN communication mit wake up signals to BCM with CAN communication.  Wake-up condition  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  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  Passenger door switch: OFF → ON, ON → OFF  Rear RH door switch: OFF → ON, ON → OFF  Rear LH door switch: OFF → ON, ON → OFF  Driver 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	ication by receiving sleep wake up signals. Each unit trans- ation to convey the start of CAN communication.  e-up condition  AL → UNLOCK

Revision: June 2014 BCS-13 2015 Leaf NAM

#### < SYSTEM DESCRIPTION >

### **DIAGNOSIS SYSTEM (BCM)**

**COMMON ITEM** 

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010642143

#### **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	<ul> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul>
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

#### SYSTEM APPLICATION

BCM can perform the following functions.

				Direct [	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:0000000010642144

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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 back door 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	
DOOR LOCK-UNLOCK SET	On*	Selective unlock function ON.	I/
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.	DOC
AUTOMATIC DOOR LOCK SELECT	P RANGE	Doors lock automatically when shifted out of P (park).	BCS
AUTOMATIC BOOK LOCK SELECT	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-	MODE4	Driver door is unlocked automatically when shifted into P (park).	
LECT	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

<sup>\*:</sup> Initial setting

REAR DEFOGGER

REAR DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

INFOID:0000000010642145

**DATA MONITOR** 

**BCS-15** Revision: June 2014 2015 Leaf NAM

#### < 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:0000000010642146

#### **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:0000000010642147

#### **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 back door 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 unlock signal from Intelligent Key.			
ACTIVE TEST				
Test Item		Description		
INT LAMP	This test is	s able to che	eck interior room lamp operation [On/Off].	
VORK SUPPORT				
Support Item	Se	tting	Description	
R LAMP TIMER LOGIC SET	MODE2		Interior room lamp timer activates from driver door switch only	
IN LAWIF THINLIN LOGIC SET	MODE1*		Interior room lamp timer activates from any door switch.	
SET I/L D-UNLCK INTCON	On*		Interior room lamp timer function ON.	
SET I/E D-UNLOR INTOON	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.		
FOG LAMP OVERRIDE	On	•	With fog override function.	
TOG LAWIF OVERVIDE	Off*		Without fog override function.	
HEADLAMP : CONSULT F	unction (I	BCM - F		
HEADLAMP	unction (I	BCM - H		
HEADLAMP HEADLAMP: CONSULT F DATA MONITOR  Monitor Item [Unit]	,		HEAD LAMP)  INFOID:000000010642  Description	
HEADLAMP HEADLAMP: CONSULT F DATA MONITOR  Monitor Item [Unit] PUSH SW [On/Off]	Indicates of	condition of p	Description  Description	
HEADLAMP 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 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  Description	
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	condition of pengine status	Description  power switch.  s received from ECM on CAN communication line.	
HEADLAMP: CONSULT FORTAL 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 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]  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.	
HEADLAMP: CONSULT FORTAL 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]  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.	
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]  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.	
HEADLAMP: CONSULT FORTAL 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]  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.	
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]  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	Description  power switch. s received from ECM on CAN communication line. d signal received from ABS on CAN communication line.	
HEADLAMP: CONSULT FOATA 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]  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.	
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]  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 rehicle spee	Description power switch. s received from ECM on CAN communication line. d signal received from ABS 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]  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 spee condition of condition of the con	Description power switch. s received from ECM on CAN communication line. d signal received from ABS on CAN communication line.  combination switch.	
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]  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]  DOOR SW-RR [On/Off]	Indicates of Indic	condition of pengine status rehicle spee	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.	
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]  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 spee condition of occupant of the condition of the cond	Description power switch. s received from ECM on CAN communication line. d signal received from ABS on CAN communication line.  combination switch.	

**ACTIVE TEST** 

OPTI SEN (DTCT) [V]

OPTI SEN (FILT) [V]

Revision: June 2014 BCS-17 2015 Leaf NAM

Indicates outside brightness voltage signal from optical sensor.

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].
HEAD LAMP	This test is able to check headlamp operation [Off/Low/Hi].
ILL DIM SIGNAL	This test is able to check head lamp illumination dimming operation [On/Off].
TAIL LAMP	This test is able to check taillamp operation [Off/On].

#### **WORK SUPPORT**

Support Item	Se	tting	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.	
ILL DELAY SET	MODE 4	90 sec.	Autolamp delay timer operation time.
ILL DELAT OLT	MODE 5	60 sec.	Autoramp dolay timer operation time.
	MODE 3	30 sec.	
	MODE 2 OFF		
	MODE 1*	45 sec.	

<sup>\*:</sup> Initial setting

### **WIPER**

### WIPER: CONSULT Function - WIPER

INFOID:0000000010642149

#### **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 eneration of combination switch
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	condition of rear wiper operation of combination switch.
RR WASHER SW [On/Off]		
RR WIPER STOP [On/Off]	Indicates	rear wiper auto stop input from rear wiper motor.
ACTIVE TEST		
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
	MODE4	Front wiper and rear wiper drop wiper function ON.
DROP WIPE FUNC SET	MODE3	Front wiper drop wiper function OFF and rear wiper drop wiper function ON.
	MODE2*	Front wiper drop wiper function ON and rear wiper drop wiper function OFF.
	MODE1	Front wiper and rear wiper drop wiper function OFF.
WIPER SPEED SETTING	Off*	Front wiper intermittent time linked with wiper dial position.
WIFER SPEED SETTING	On	Front wiper intermittent time linked with vehicle speed and wiper dial position.
FLASHER FLASHER : CONSULT F DATA MONITOR  Monitor Item [Unit]	Function (B	CM - FLASHER)  Description
		Description
REQ SW -DR [On/Off]		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.
TURN SIGNAL R [On/Off]	Indicates	condition of turn signal function of combination switch.
TURN SIGNAL L [On/Off]		
HAZARD SW [On/Off]		condition of hazard switch.
RKE-LOCK [On/Off]	Indicates	condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		condition of unlock signal from Intelligent Key.
RKE-PANIC [On/Off]	Indicates	condition of panic alarm signal from Intelligent Key.
ACTIVE TEST		
Test Item		Description
1000 10111	1	200011711011

Revision: June 2014 BCS-19 2015 Leaf NAM

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

FLASHER

**WORK SUPPORT** 

#### < SYSTEM DESCRIPTION >

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**

### AIR CONDITIONER : CONSULT Function (BCM - AIR CONDITIONER)

INFOID:0000000010642151

#### **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:0000000010642152

# SELF DIAGNOSTIC RESULT Refer to <u>BCS-48</u>, "<u>DTC Index</u>".

#### **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.

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### < SYSTEM DESCRIPTION >

Monitor Item [Unit]	Main	Description
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.
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].	able to check combination meter warning chime operation [Off/Take Out/Knob/
	B&P N	This test is able to check combination meter traction motor start information.
	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	
202	BATT	This test is able to check combination meter Intelligent Key low battery warning information.
	NO KY	This item is displayed, but is not used.
	OUTKEY	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	able to check interior room lamp battery saver operation [Off/On].
ENGINE SW ILLUMI	This test is	able to check power switch illumination operation [Off/On].
PUSH SWITCH INDICATOR	This test is	able to check power switch ACC/ON indicator operation [Off/On].
TRUNK/BACK DOOR	This test is	able to check back door opener actuator operation [Open].
INT LAMP	This test is	able to check interior room lamp operation [Off/On].
INDICATOR	This test is	able to check combination meter warning lamp operation [Off/KEY ON/KEY IND].
FLASHER	This test is	able to check security hazard lamp operation [RH/LH/Off].
OUTSIDE BUZZER	This test is	able to check Intelligent Key warning buzzer operation [On/Off].
HORN	This test is	able to check horn operation [On].

### **WORK SUPPORT**

Support Item	Setting	Description
LOCK/UNLOCK BY I-KEY	On*	Door lock/unlock function from request switch ON.
EGGIVONEGGIV BT I-RET	Off	Door lock/unlock function from request switch OFF.

Revision: June 2014 BCS-21 2015 Leaf NAM

#### < SYSTEM DESCRIPTION >

Support Item	Se	tting	Description
ANTI VEV LOCK IN FUNCTI	On*		Key reminder function ON.
ANTI KEY LOCK IN-FUNCTI	Off		Key reminder function OFF.
ANS BACK I-KEY UNLOCK	On*		Buzzer reminder function when doors are unlocked with request switch ON.
ANS BACK FRET UNLOCK	Off		Buzzer reminder function when doors are unlocked with request switch OFF.
	Horn Chirp	)	Horn chirp reminder function when doors are locked with request switch.
ANS BACK I-KEY LOCK	Buzzer*		Buzzer reminder function when doors are locked with request switch.
	Off		No reminder function when doors are locked with request switch.
HODNIWITH VEVI ESS LOCK	On*		Horn reminder function when doors are locked with Intelligent Key ON.
HORN WITH KEYLESS LOCK	Off		Horn reminder function when doors are locked with Intelligent Key OFF.
	Lock/Unloc	ck*	Horn reminder function when doors are locked or unlocked with request switch or Intelligent Key.
	Unlock On	ly	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	
	MEMORY	2	
CONFIRM KEY FOB ID	MEMORY	3	Intelligent Key ID code can be checked.
	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.	
	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	

<sup>\*:</sup> Initial Setting

**COMB SW** 

COMB SW: CONSULT Function (BCM - COMB SW)

INFOID:0000000010642153

**DATA MONITOR** 

#### < SYSTEM DESCRIPTION >

Indicates condition of wiper operation of combination switch.  FR WIPER INT [On/Off] INT VOLUME [1 - 7] INDICALUME INT [On/Off] INDICALUME INTERPRETATION INDICALUME INTERPRETATION INDICALUME INTERPRETATION INDICALUME INTERPRETATION INTE	Monitor Item [Unit]		Description	
Indicates condition of wiper operation of combination switch.  FR WIPER INT [On/Off] Indicates condition of intermittent wiper operation of combination switch.  RR WIPER ON [On/Off] Indicates condition of intermittent wiper operation of combination switch.  RR WIPER INT [On/Off] Indicates condition of rear wiper operation of combination switch.  RR WIPER INT [On/Off] Indicates condition of rear wiper operation of combination switch.  RR WIPER INT [On/Off] Indicates condition of left turn signal operation of combination switch.  TURN SIGNAL I. [On/Off] Indicates condition of left turn signal operation of combination switch.  TURN SIGNAL I. [On/Off] Indicates condition of left turn signal operation of combination switch.  HI BEAM SW [On/Off] Indicates condition of left learn switch operation of combination switch.  HI BEAM SW [On/Off] Indicates condition of head lamp switch 1 operation of combination switch.  HEAD LAMP SW 1 [On/Off] Indicates condition of head lamp switch 1 operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of passing switch operation of combination switch.  HEAD LAMP SW [On/Off] Indicates condition of passing switch operation of combination switch.  HEAD LAMP SW [On/Off] Indicates condition of passing switch operation of combination switch.  HEAD LAMP SW [On/Off] Indicates condition of front fog lamp switch operation of combination switch.  BOM SCM : CONSULT Function (BCM - BCM)  **CONSULT Function (BCM	FR WIPER HI [On/Off]			-
FR WASHER SW [On/Off] FR WIPER INT [On/Off] INT VOLUME [1 - 7] INDICATE ON [On/Off] RR WIPER ON [On/Off] RR WIPER ON [On/Off] INDICATE ON [On/Off] RR WASHER SW [On/Off] INDICATE ON [On/Off] INDICATE	FR WIPER LOW [On/Off]	Indicates o	ondition of winer operation of combination switch	
RR WIPER ON [On/Off] RR WIPER INT [On/Off] RR WIPER INT [On/Off] Indicates condition of rear wiper operation of combination switch.  RR WASHER SW [On/Off] Indicates condition of light turn signal operation of combination switch.  TURN SIGNAL R [On/Off] Indicates condition of left turn signal operation of combination switch.  TAIL LAMP SW [On/Off] Indicates condition of left turn signal operation of combination switch.  HI BEAM SW [On/Off] Indicates condition of Hi beam switch operation of combination switch.  HEAD LAMP SW 1 [On/Off] Indicates condition of head lamp switch operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of head lamp switch 1 operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of head lamp switch 2 operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of passing switch operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of passing switch operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of front fog lamp switch operation of combination switch.  BODICAL SW [On/Off] Indicates condition of front fog lamp switch operation of combination switch.  BODICAL SW [On/Off]  BODICAL SW [On/Off]  BODICAL SW [On/Off]  Indicates condition of front fog lamp switch operation of combination switch.  BODICAL SW [On/Off]  BODICAL SW [On/Off]  Indicates condition of passing switch operation of combination switch.  BODICAL SW [On/Off]  Indicates condition of passing switch operation of combination switch.  Indicates condition of passing switch operation of combination switch.  Indicates condition of passing switch operation of combination switch.  Indicates condition of passing switch operation of combination switch.  Indicates condition of passing switch operation of combination switch.  Indicates condition of passing switch operation of combination switch.  Indicates condition of passing switch operation of combination switch.  Indicates condition of passing switch operation of combina	FR WASHER SW [On/Off]	maicates c	oridition of wiper operation of combination switch.	
RR WIPER ON [On/Off] RR WIPER INT [On/Off] RR WASHER SW [On/Off]  TURN SIGNAL R [On/Off]  TURN SIGNAL R [On/Off]  Indicates condition of right turn signal operation of combination switch.  TURN SIGNAL R [On/Off]  Indicates condition of left turn signal operation of combination switch.  TAIL LAMP SW [On/Off]  Indicates condition of left turn signal operation of combination switch.  TAIL LAMP SW [On/Off]  Indicates condition of tail lamp switch operation of combination switch.  HEAD LAMP SW 1 [On/Off]  Indicates condition of head lamp switch operation of combination switch.  HEAD LAMP SW 2 [On/Off]  Indicates condition of head lamp switch operation of combination switch.  HEAD LAMP SW 2 [On/Off]  Indicates condition of head lamp switch 2 operation of combination switch.  HEAD LAMP SW 2 [On/Off]  Indicates condition of passing switch operation of combination switch.  HEAD LAMP SW 2 [On/Off]  Indicates condition of passing switch operation of combination switch.  Indicates condition of auto light switch operation of combination switch.  Indicates condition of front fog lamp switch operation of combination switch.  BCM  BCM : CONSULT Function (BCM - BCM)  **PODDOMESSULT**  **EXECUTION**  The BCM part number is displayed.  SELE DIAGNOSTIC RESULT  **Refer to BCS-48. "DTC Index".**  **WORK SUPPORT**  Support Item  Setting  Reset  Returns BCM to initial value in factory shipment.  Cancel  Cancel Cancels the reset function.  CONFIGURATION  Refer to BCS-58. "CONFIGURATION (BCM) : Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	FR WIPER INT [On/Off]			
Indicates condition of rear wiper operation of combination switch.  RR WASHER SW [On/Off] Indicates condition of right turn signal operation of combination switch.  TURN SIGNAL I [On/Off] Indicates condition of left turn signal operation of combination switch.  TURN SIGNAL L [On/Off] Indicates condition of left turn signal operation of combination switch.  TAIL LAMP SW [On/Off] Indicates condition of tell turn signal operation of combination switch.  HI BEAM SW [On/Off] Indicates condition of HI beam switch operation of combination switch.  HEAD LAMP SW 1 [On/Off] Indicates condition of head lamp switch 1 operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of head lamp switch 2 operation of combination switch.  HEAD LAMP SW [On/Off] Indicates condition of passing switch operation of combination switch.  HEAD LAMP SW [On/Off] Indicates condition of passing switch operation of combination switch.  AUTO LIGHT SW [On/Off] Indicates condition of auto light switch operation of combination switch.  BCM SCM : CONSULT Function (BCM - BCM)  BCM : CONSULT Function (BCM - BCM)  BCM : CONSULT Function (BCM - BCM)  BCCU IDENTIFICATION  The BCM part number is displayed.  SELF DIAGNOSTIC RESULT  Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description  RESET SETTING VALUE Reset Returns BCM to initial value in factory shipment.  CONFIGURATION  Refer to BCS-58, "CONFIGURATION (BCM) : Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	INT VOLUME [1 - 7]	Indicates c	ondition of intermittent wiper operation of combination switch.	
RR WASHER SW [On/Off]  TURN SIGNAL R [On/Off]  Indicates condition of right turn signal operation of combination switch.  TURN SIGNAL L [On/Off]  Indicates condition of left turn signal operation of combination switch.  TAIL LAMP SW [On/Off]  Indicates condition of tail lamp switch operation of combination switch.  HI BEAM SW [On/Off]  Indicates condition of Hi beam switch operation of combination switch.  HEAD LAMP SW 1 [On/Off]  Indicates condition of head lamp switch 1 operation of combination switch.  HEAD LAMP SW 2 [On/Off]  Indicates condition of head lamp switch 2 operation of combination switch.  HEAD LAMP SW 2 [On/Off]  Indicates condition of passing switch operation of combination switch.  PASSING SW [On/Off]  Indicates condition of auto light switch operation of combination switch.  BCM  BCM: CONSULT Function (BCM - BCM)  BCM: CONSULT Function (BCM - BCM)  BCM: CONSULT Function (BCM - BCM)  BCM: Support Item  Support Item  Setting  Reset  Returns BCM to initial value in factory shipment.  Cancel  Cancel Cancels the reset function.  CONFIGURATION  Refer to BCS-58. "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	RR WIPER ON [On/Off]			
TURN SIGNAL R [On/Off] Indicates condition of right turn signal operation of combination switch.  TURN SIGNAL L [On/Off] Indicates condition of left turn signal operation of combination switch.  TAIL LAMP SW [On/Off] Indicates condition of tail lamp switch operation of combination switch.  HI BEAM SW [On/Off] Indicates condition of HI beam switch operation of combination switch.  HEAD LAMP SW 1 [On/Off] Indicates condition of head lamp switch 1 operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of head lamp switch 2 operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of head lamp switch 2 operation of combination switch.  PASSING SW [On/Off] Indicates condition of passing switch operation of combination switch.  RE FOG SW [On/Off] Indicates condition of auto light switch operation of combination switch.  BCM  BCM : CONSULT Function (BCM - BCM)  BCM : CONSULT Function (BCM - BCM)  BCM : CONSULT Function (BCM - BCM)  BCM SUPPORT  Support Item Setting Description  RESET SETTING VALUE Cancel Cancels the reset function.  CONFIGURATION  Refer to BCS-48, "CONFIGURATION (BCM): Description".  CONFIGURATION  Refer to BCS-58, "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	RR WIPER INT [On/Off]	Indicates of	ondition of rear wiper operation of combination switch.	
TURN SIGNAL L [On/Off] Indicates condition of left turn signal operation of combination switch.  TAIL LAMP SW [On/Off] Indicates condition of tail lamp switch operation of combination switch.  HI BEAM SW [On/Off] Indicates condition of Hi beam switch operation of combination switch.  HEAD LAMP SW 1 [On/Off] Indicates condition of head lamp switch 1 operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of head lamp switch 2 operation of combination switch.  PASSING SW [On/Off] Indicates condition of passing switch operation of combination switch.  AUTO LIGHT SW [On/Off] Indicates condition of auto light switch operation of combination switch.  FR FOG SW [On/Off] Indicates condition of front fog lamp switch operation of combination switch.  BCM  BCM : CONSULT Function (BCM - BCM)  BCM : CO	RR WASHER SW [On/Off]			
TAIL LAMP SW [On/Off] Indicates condition of tail lamp switch operation of combination switch.  HI BEAM SW [On/Off] Indicates condition of Hi beam switch operation of combination switch.  HEAD LAMP SW 1 [On/Off] Indicates condition of head lamp switch 1 operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of head lamp switch 2 operation of combination switch.  PASSING SW [On/Off] Indicates condition of passing switch operation of combination switch.  AUTO LIGHT SW [On/Off] Indicates condition of auto light switch operation of combination switch.  FR FOG SW [On/Off] Indicates condition of front fog lamp switch operation of combination switch.  BCM : CONSULT Function (BCM - BCM)  BCM : CONSULT Function (BCM - BCM)  BCM : DIPOLOGOMOTO (BCM - BCM)  BCU IDENTIFICATION  The BCM part number is displayed.  SELF DIAGNOSTIC RESULT  Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description  RESET SETTING VALUE  Reset Returns BCM to initial value in factory shipment.  Cancel Cancels the reset function.  CONFIGURATION  Refer to BCS-58, "CONFIGURATION (BCM) : Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	TURN SIGNAL R [On/Off]	Indicates c	ondition of right turn signal operation of combination switch.	
HI BEAM SW [On/Off] Indicates condition of Hi beam switch operation of combination switch.  HEAD LAMP SW 1 [On/Off] Indicates condition of head lamp switch 1 operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of head lamp switch 2 operation of combination switch.  PASSING SW [On/Off] Indicates condition of passing switch operation of combination switch.  AUTO LIGHT SW [On/Off] Indicates condition of auto light switch operation of combination switch.  FR FOG SW [On/Off] Indicates condition of auto light switch operation of combination switch.  FR FOG SW [On/Off] Indicates condition of front fog lamp switch operation of combination switch.  BCM  BCM : CONSULT Function (BCM - BCM)  ECU IDENTIFICATION  The BCM part number is displayed.  SELF DIAGNOSTIC RESULT  Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description  Reset Returns BCM to initial value in factory shipment.  Cancel Cancels the reset function.  CONFIGURATION  Refer to BCS-58, "CONFIGURATION (BCM) : Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	TURN SIGNAL L [On/Off]	Indicates of	ondition of left turn signal operation of combination switch.	
HEAD LAMP SW 1 [On/Off] Indicates condition of head lamp switch 1 operation of combination switch.  HEAD LAMP SW 2 [On/Off] Indicates condition of head lamp switch 2 operation of combination switch.  PASSING SW [On/Off] Indicates condition of passing switch operation of combination switch.  AUTO LIGHT SW [On/Off] Indicates condition of auto light switch operation of combination switch.  FR FOG SW [On/Off] Indicates condition of front fog lamp switch operation of combination switch.  BCM  BCM: CONSULT Function (BCM - BCM)  ECU IDENTIFICATION The BCM part number is displayed.  SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description  RESET SETTING VALUE  Reset Returns BCM to initial value in factory shipment.	TAIL LAMP SW [On/Off]	Indicates c	ondition of tail lamp switch operation of combination switch.	
HEAD LAMP SW 2 [On/Off] Indicates condition of head lamp switch 2 operation of combination switch.  PASSING SW [On/Off] Indicates condition of passing switch operation of combination switch.  AUTO LIGHT SW [On/Off] Indicates condition of auto light switch operation of combination switch.  FR FOG SW [On/Off] Indicates condition of front fog lamp switch operation of combination switch.  BCM  BCM : CONSULT Function (BCM - BCM)  ECU IDENTIFICATION The BCM part number is displayed.  SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description  RESET SETTING VALUE Cancel Cancels the reset function.  CONFIGURATION Refer to BCS-58, "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	HI BEAM SW [On/Off]	Indicates of	ondition of Hi beam switch operation of combination switch.	
PASSING SW [On/Off] Indicates condition of passing switch operation of combination switch.  AUTO LIGHT SW [On/Off] Indicates condition of auto light switch operation of combination switch.  FR FOG SW [On/Off] Indicates condition of front fog lamp switch operation of combination switch.  BCM  BCM : CONSULT Function (BCM - BCM)  ECU IDENTIFICATION The BCM part number is displayed.  SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description  RESET SETTING VALUE Cancel Cancels the reset function.  CONFIGURATION Refer to BCS-58, "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	HEAD LAMP SW 1 [On/Off]	Indicates o	ondition of head lamp switch 1 operation of combination switch.	
AUTO LIGHT SW [On/Off] Indicates condition of auto light switch operation of combination switch.  FR FOG SW [On/Off] Indicates condition of front fog lamp switch operation of combination switch.  BCM  BCM : CONSULT Function (BCM - BCM)  ECU IDENTIFICATION The BCM part number is displayed.  SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description  RESET SETTING VALUE Reset Returns BCM to initial value in factory shipment.  CONFIGURATION Refer to BCS-58, "CONFIGURATION (BCM) : Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	HEAD LAMP SW 2 [On/Off]	Indicates o	ondition of head lamp switch 2 operation of combination switch.	
Indicates condition of front fog lamp switch operation of combination switch.  BCM  BCM : CONSULT Function (BCM - BCM)  ECU IDENTIFICATION The BCM part number is displayed.  SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item  Setting  Reset  Returns BCM to initial value in factory shipment.  Cancel  Cancels the reset function.  CONFIGURATION Refer to BCS-58, "CONFIGURATION (BCM) : Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	PASSING SW [On/Off]	Indicates c	ondition of passing switch operation of combination switch.	
BCM: CONSULT Function (BCM - BCM)  ECU IDENTIFICATION The BCM part number is displayed.  SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description  RESET SETTING VALUE Cancel Cancels the reset function.  CONFIGURATION Refer to BCS-58, "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	AUTO LIGHT SW [On/Off]	Indicates of	ondition of auto light switch operation of combination switch.	
BCM : CONSULT Function (BCM - BCM)  ECU IDENTIFICATION The BCM part number is displayed.  SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description RESET SETTING VALUE Reset Returns BCM to initial value in factory shipment.  Cancel Cancels the reset function.  CONFIGURATION Refer to BCS-58, "CONFIGURATION (BCM) : Description".  CAN DIAG SUPPORT MNTR Refer to LAN-14, "CAN Diagnostic Support Monitor".				
ECU IDENTIFICATION The BCM part number is displayed. SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description RESET SETTING VALUE Reset Returns BCM to initial value in factory shipment. Cancel Cancels the reset function.  CONFIGURATION Refer to BCS-58, "CONFIGURATION (BCM): Description". CAN DIAG SUPPORT MNTR Refer to LAN-14, "CAN Diagnostic Support Monitor".		Indicates c	ondition of front fog lamp switch operation of combination switch.	
The BCM part number is displayed.  SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description  RESET SETTING VALUE  Reset Returns BCM to initial value in factory shipment.  Cancel Cancels the reset function.  CONFIGURATION Refer to BCS-58, "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR Refer to LAN-14, "CAN Diagnostic Support Monitor".		Indicates c	ondition of front fog lamp switch operation of combination switch.	
The BCM part number is displayed.  SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description  RESET SETTING VALUE  Reset Returns BCM to initial value in factory shipment.  Cancel Cancels the reset function.  CONFIGURATION Refer to BCS-58, "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR Refer to LAN-14, "CAN Diagnostic Support Monitor".	BCM			INFOID:000000010642154
SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description  RESET SETTING VALUE  Reset Returns BCM to initial value in factory shipment.  Cancel Cancels the reset function.  CONFIGURATION Refer to BCS-58, "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	BCM BCM : CONSULT Fu			INFOID:000000010642154
Refer to BCS-48, "DTC Index".  WORK SUPPORT  Support Item Setting Description  RESET SETTING VALUE  RESET SETTING VALUE  Cancel Cancels the reset function.  CONFIGURATION  Refer to BCS-58, "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	BCM  BCM : CONSULT Fu  ECU IDENTIFICATION	nction (BCN		INFOID:000000010642154
Support Item  Setting  RESET SETTING VALUE  Reset  Cancel  Cancels the reset function.  CONFIGURATION  Refer to BCS-58, "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	BCM  BCM: CONSULT Fu  ECU IDENTIFICATION The BCM part number is d	nction (BCN		INFOID:000000010642154
Support Item Setting Description  RESET SETTING VALUE  Reset Returns BCM to initial value in factory shipment.  Cancel Cancels the reset function.  CONFIGURATION  Refer to BCS-58, "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	BCM  BCM: CONSULT Fu  ECU IDENTIFICATION The BCM part number is d  BELF DIAGNOSTIC RE	Inction (BCN lisplayed. SULT		INFOID:000000010642154
RESET SETTING VALUE  Reset Returns BCM to initial value in factory shipment.  Cancel Cancels the reset function.  CONFIGURATION  Refer to BCS-58, "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	BCM: CONSULT Fur ECU IDENTIFICATION The BCM part number is d SELF DIAGNOSTIC RE Refer to BCS-48, "DTC In	Inction (BCN lisplayed. SULT		INFOID:000000010642154
Cancel Cancels the reset function.  CONFIGURATION  Refer to BCS-58, "CONFIGURATION (BCM): Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	BCM: CONSULT Fur ECU IDENTIFICATION The BCM part number is d SELF DIAGNOSTIC RE Refer to BCS-48, "DTC In	Inction (BCN lisplayed. SULT		INFOID:000000010642154
Cancel Cancels the reset function.  CONFIGURATION  Refer to BCS-58, "CONFIGURATION (BCM) : Description".  CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	BCM  BCM: CONSULT Fu  ECU IDENTIFICATION The BCM part number is d  BELF DIAGNOSTIC RE Refer to BCS-48, "DTC In	inction (BCN lisplayed. SULT <u>dex"</u> .	M - BCM)	INFOID:000000010642154
Refer to <u>BCS-58, "CONFIGURATION (BCM) : Description"</u> . CAN DIAG SUPPORT MNTR Refer to <u>LAN-14, "CAN Diagnostic Support Monitor"</u> .	BCM: CONSULT Fur ECU IDENTIFICATION The BCM part number is done SELF DIAGNOSTIC RE Refer to BCS-48, "DTC In WORK SUPPORT	inction (BCN isplayed. SULT dex".	M - BCM)  Description	INFOID:000000010642154
CAN DIAG SUPPORT MNTR  Refer to LAN-14, "CAN Diagnostic Support Monitor".	BCM: CONSULT Fur ECU IDENTIFICATION The BCM part number is done SELF DIAGNOSTIC RE Refer to BCS-48, "DTC In WORK SUPPORT	inction (BCN lisplayed. SULT dex".  Setting	Description  Returns BCM to initial value in factory shipment.	INFOID:000000010642154
Refer to LAN-14, "CAN Diagnostic Support Monitor".	BCM: CONSULT Further Support Item  RESET SETTING VALUE	inction (BCN lisplayed. SULT dex".  Setting	Description  Returns BCM to initial value in factory shipment.	INFOID:000000010642154
	BCM: CONSULT FUECU IDENTIFICATION The BCM part number is described by the BCS of the BCS	inction (BCN) lisplayed. SULT dex".  Setting Reset Cancel	Description  Returns BCM to initial value in factory shipment.  Cancels the reset function.	INFOID:000000010642154
IMMU	BCM: CONSULT Further Support Item  RESET SETTING VALUE  CONFIGURATION  Refer to BCS-58, "CONFIGURATION  RESET SECONFIGURATION  Refer to BCS-58, "CONFIGURATION	Inction (BCN isplayed. SULT dex".  Setting Reset Cancel	Description  Returns BCM to initial value in factory shipment.  Cancels the reset function.	INFOID:000000010642154
	BCM: CONSULT FUR ECU IDENTIFICATION The BCM part number is described by the BCS of the B	Inction (BCN lisplayed. SULT dex".  Setting Reset Cancel  GURATION (BC	Description  Returns BCM to initial value in factory shipment.  Cancels the reset function.  CM): Description".	INFOID:000000010642154
	BCM: CONSULT FUR ECU IDENTIFICATION The BCM part number is described by the BCM part number is described by the BCS-48, "DTC In WORK SUPPORT  Support Item  RESET SETTING VALUE  CONFIGURATION Refer to BCS-58, "CONFIGURATION Refer to LAN-14, "CAN Diagrams and the BCS-18, "CONFIGURATION CONFIGURATION CONFIGURATI	Inction (BCN lisplayed. SULT dex".  Setting Reset Cancel  GURATION (BCN INTR agnostic Suppose)	Description  Returns BCM to initial value in factory shipment.  Cancels the reset function.  CM): Description".	INFOID:000000010642154

SELF DIAGNOSTIC RESULT

Refer to BCS-48, "DTC Index".

DATA MONITOR

#### < SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description	
CONFRM ID ALL [Yet/DONE]		
CONFIRM ID4 [Yet/DONE]		
CONFIRM ID3 [Yet/DONE]	Switches to DONE when an Intelligent Key is registered.	
CONFIRM ID2 [Yet/DONE]		
CONFIRM ID1 [Yet/DONE]		
NOT REGISTERED [ID OK/ID NG]	ID OK indicates Intelligent Key being registered is registered.	
TP 4 [Yet/DONE]		
TP 3 [Yet/DONE]	DONE indicates the number of Intelligent Key ID that has been registered.	
TP 2 [Yet/DONE]	DONE indicates the number of intelligent Ney ID that has been registered.	
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:000000010642156

#### **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].

#### < SYSTEM DESCRIPTION >

#### **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.	
BATTERY SAVER SET	On*		Exterior lamp battery saver function ON.
BATTERY GAVER GET	Off		Exterior lamp battery saver function OFF.

<sup>\*:</sup>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:0000000010642158

### **DATA MONITOR**

Monitored Item	Description	J
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.	L
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.	BCS
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.	N
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.	0
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.	D
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**

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#### < SYSTEM DESCRIPTION >

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**

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

#### RETAINED POWER

RETAINED POWER: CONSULT Function (BCM - RETAINED PWR)

#### INFOID:0000000010642159

#### 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:0000000010642160

#### 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

### < SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description	
AIR PRESS FL [kPa, kg/cm <sup>2</sup> or Psi]	Indicates air pressure of front LH tire.	
AIR PRESS FR [kPa, kg/cm <sup>2</sup> or Psi]	Indicates air pressure of front RH tire.	
AIR PRESS RR [kPa, kg/cm <sup>2</sup> or Psi]	Indicates air pressure of rear RH tire.	
AIR PRESS RL [kPa, kg/cm <sup>2</sup> 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.	
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-21, "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

Monitor Item	Condition	Value/Status
AID COND CW	A/C switch OFF	Off
AIR COND SW	A/C switch ON	On
AIR PRESS FL	Front left tire air pressure value	kPa, kg/cm <sup>2</sup> , psi
AIR PRESS FR	Front right tire air pressure value	kPa, kg/cm <sup>2</sup> , psi
AIR PRESS RL	Rear left tire air pressure value	kPa, kg/cm <sup>2</sup> , psi
AIR PRESS RR	Rear right tire air pressure value	kPa, kg/cm <sup>2</sup> , psi
AUTO LIGHT SW	Lighting switch OFF	Off
AUTO LIGHT SW	Lighting switch AUTO	On
BRAKE SW 1	When the brake pedal is released	On
DRAKE SW I	When the brake pedal is depressed	Off
BRAKE SW2	Brake pedal released	Off
DRANE SWZ	Brake pedal depressed	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the LOCK side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the UNLOCK side	On
CONFRM ID ALL	The key ID does not match any key ID registered to BCM.	Yet
CONFRIMID ALL	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
CONFIRM ID4	The key ID matches the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID does not match the third key ID registered to BCM.	Yet
CONFIRMIDS	The key ID matches the third key ID registered to BCM.	DONE
CONFIRM ID2	The key ID does not match the second key ID registered to BCM.	Yet
CONFIRMIDZ	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.	Yet
CONFIRMIDI	The key ID matches the first key ID registered to BCM.	DONE
DETE SW -IPDM	When selector lever is in P position	Off
DETE SAN -INDIM	When selector lever is in any position other than P	On
DETE/CANCL SW	When selector lever is in P position	Off
DETE/CAINCE 300	When selector lever is in any position other than P	On

Monitor Item	Condition	Value/Status	
	Passenger door LOCK status	LOCK	A
DOOR STAT-AS	Passenger door UNLOCK status	UNLK	
	Wait with selective UNLOCK operation (5 seconds)	READY	В
	Driver door LOCK status	LOCK	
DOOR STAT-DR	Driver door UNLOCK status	UNLK	
	Wait with selective UNLOCK operation (5 seconds)	READY	C
DOOR SW-AS	Front door RH closed	Off	<del></del>
DOOR SW-AS	Front door RH opened	On	
DOOR SW-BK	Back door closed	Off	
DOOK SW-BK	Back door opened	On	<del></del> -
DOOD OW DD	Front door LH closed	Off	Е
DOOR SW-DR	Front door LH opened	On	
DOOD OW DI	Rear door LH closed	Off	
DOOR SW-RL	Rear door LH opened	On	
DOOD CW DD	Rear door RH closed	Off	
DOOR SW-RR	Rear door RH opened	On	G
	Engine stopped	Stop	
	While the engine stalls	Stall	
ENGINE STATE	At engine cranking	Crank	— F
	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	<del></del> J
	Front washer switch OFF	Off	
FR WASHER SW	Front washer switch ON	On	K
	Front wiper switch OFF	Off	
FR WIPER LOW	Front wiper switch LO	On	
	Front wiper switch OFF	Off	L
FR WIPER HI	Front wiper switch HI	On	
	Front wiper switch OFF	Off	
FR WIPER INT	Front wiper switch INT	On	BC
	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	F
HI BEAM SW	High beam switch OFF	Off	
	High beam switch HI	On	
ID OK FLAG	Ignition switch ACC or ON	Reset	
	Ignition switch OFF	Set	

### **BCM**

### < ECU DIAGNOSIS INFORMATION >

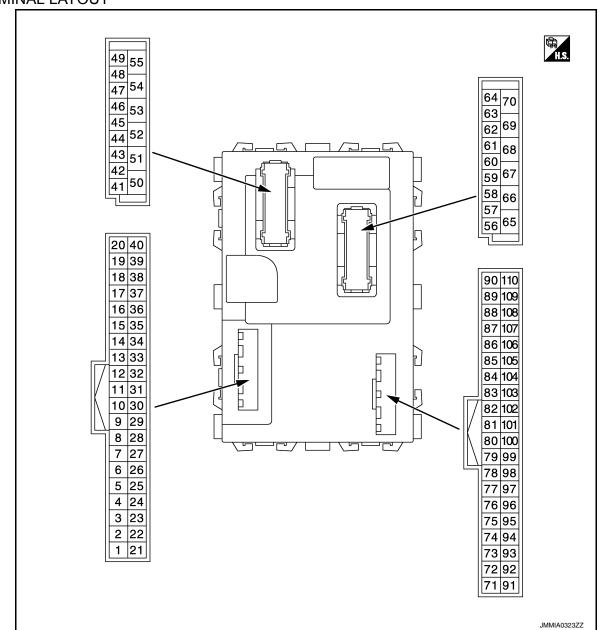
Monitor Item	Condition	Value/Status
ID REGST FL1	ID registration of front left tire incomplete	YET
ID NEGOTIET	ID registration of front left tire complete	DONE
ID REGST FR1	ID registration of front right tire incomplete	YET
ID REGGI FRI	ID registration of front right tire complete	DONE
ID REGST RL1	ID registration of rear left tire incomplete	YET
ID REGGI KLI	ID registration of rear left tire complete	DONE
ID DECCT DD4	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
L KEV OK EL AO	I-Key OFF	Key OFF
I-KEY OK FLAG	I-Key ON	Key ON
1/E// 0//L L I/ 0/M	Door key cylinder LOCK position	Off
KEY CYL LK-SW	Door key cylinder other than LOCK position	On
KEY OVELEN OW	Door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Door key cylinder other than UNLOCK position	On
NOT DECICTEDED	Intelligent Key ID registered.	ID OK
NOT REGISTERED	Intelligent Key ID not registered.	ID NG
ODTI OFNI (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 COUNTO OVA	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
DDDT ENG STDT	When the engine start is prohibited	Reset
PRBT ENG STRT	When the engine start is permitted	Set
	Power switch not pressed	Off
PUSH SW	Power switch pressed	On
	When engine switch (push switch) is not pressed	Off
PUSH SW-IPDM	When engine switch (push switch) is pressed	On
	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
	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
	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
	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	
DKE TIMI OCK	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	
	Rear wiper switch OFF	Off	
RR WIPER ON	Rear wiper switch ON	On	
	Rear wiper in STOP position	Off	
RR WIPER STOP	Any position other than rear wiper position	On	
057.11.1457	When selector lever is in any position other than N	Off	
SFT N-MET	When selector lever is in N position	On	
0== 0 1=	When selector lever is in any position other than P	Off	
SFT P-MET	When selector lever is in P position	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	
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off	
	Lighting switch 1ST or 2ND	On	
	The ID of fourth key is not registered to BCM	Yet	
TP 4	The ID of fourth key is registered to BCM	DONE	
	The ID of third key is not registered to BCM	Yet	
TP 3	The ID of third key is registered to BCM	DONE	
	The ID of second key is not registered to BCM	Yet	
TP 2	The ID of second key is registered to BCM	DONE	
	The ID of first key is not registered to BCM	Yet	
TP 1	The ID of first key is registered to BCM	DONE	
	Back door opener switch not pressed	Off	
TR/BD OPEN SW	Back door opener switch pressed	On	
	Turn signal switch OFF	Off	
TURN SIGNAL L	Turn signal switch LH	On	
	Turn signal switch OFF	Off	
TURN SIGNAL R	Turn signal switch RH	On	
	Driver door UNLOCK status	Off	<del></del>
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	
·	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.		Description				Value	
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)	
					OFF	0 V	
					TURN RH		
		Combination switch	Input	Combination	HEADLAMP 1	(V) 15	
2	Ground				HI BEAM	10	
(L)	Glodila	INPUT 5	mpat	switch	TAIL LAMP	0 +10ms PKIB4958J	

	Description  Signal name  Input/ Output				Value		
color)				Condition	(Approx.)		
				OFF	0 V		
				TURN LH			
				PASSING	(V) 15		
				HEADLAMP 2	10 5 0 ++10ms		
Ground	Combination switch INPUT 4	Input	Combination switch		PKIB4958J 1.0 V		
					SWITCH	FR FOG	(V) 15 10 5 0
					PKIB4956J 0.8 V		
				OFF	0 V		
				AUTO LIGHT			
				FR WIPER LOW	(V) 15		
Ground	Combination switch INPUT 3	Input	Combination switch	FR WIPER INT (Wiper intermittent dial 4)	10 5 0 +-10ms PKIB4958J		
					1.0 V		
					0 V		
					(V)		
Ground	Combination switch INPUT 2	Input	Combination switch	INT VOLUME 3  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	(V) 15 10 5 0 +-10ms PKIB4956J 1.0 V		
				RR WIPER ON	(V) 15 10 5 0		
	Ground	Ground Combination switch INPUT 3  Cround Combination switch	Ground Combination switch Input  Cround Combination switch Input  Cround Combination switch Input	Ground Combination switch Input Combination switch  Cround Combination switch Input Combination switch  Cround Combination switch Input Combination	Ground Combination switch Input Combination switch FR WIPER LOW  Ground Combination switch Input Inp		

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					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  ++10ms  PKIB4958J 1.0 V
7 (GR)	Ground	Door key cylinder switch UNLOCK	Input	Door key cylinder switch	NEUTRAL	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
					UNLOCK	0 V
8 (R)	Ground	Door key cylinder switch LOCK	Input	Door key cylin- der switch	NEUTRAL	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 - 8.0 V
					LOCK	0 V
9	Cround	Ston 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 JPMIA0012GB 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 JPMIA0012GB 1.0 - 1.5 V
					UNLOCK	0 V

Α

В

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0

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
14	Cround	Ontical concer	laat	Power switch	Daylight	Close to 5 V
(G)	Ground	Optical sensor	Input	ON	Night	Close to 0 V
15 (W)	Ground	Rear window defog- ger switch	Input	Rear window defogger switch	Switch released	(V) 15 10 5 0 10 ms JPMIA0012GB 1.0 - 1.5 V
					Switch pressed	0 V
16 (R)	Ground	MR output	Output	_	_	_
17 (Y)	Ground	Sensor power sup- ply	Output	Power switch	OFF, ACC	0 V 4.65 - 5.5 V
18 (L)	Ground	Receiver and sensor ground	Input	Power switch ON	 	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
					Brake pedal released	Battery voltage
					ON	0 - 0.5 V
23 (R)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking (Power switch OFF)	(V) <sub>15</sub> 10 5 0 **1s JPMIA0590GB 12.0 V
					OFF	Battery voltage
24* (SB)	Ground	Dongle link	Input/ Output	Power switch OF	F	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 
					Brake pedal released	Battery voltage
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage
(G)	Cround	. Idzaid Owiton	mpat	. Idzai a Switoii	ON	0 - 1.5 V

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
30 (V)	Ground	Back door opener switch	Input	Back door opener switch	Pressed	0 V
31 (W)	Ground	Front door lock as- sembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor OFF)	JPMIA0012GB  1.0 - 1.5 V  (V) 15 10 5 0 PKIB4960J 7.0 - 8.0 V
					UNLOCK status (Unlock sensor ON)	0 V
					OFF	(V) 15 10 5 0 ++10ms PKIB4960J 7.0 - 8.0 V
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  PKIB4958J 1.2 V
					RR WIPER ON	40
					FR FOG	(V) 15 10 5 0 ***10ms PKIB4958J 1.0 V

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

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
36	Ground	Combination switch	Output	Combination	OFF	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 - 8.0 V
(P)	Giodila	OUTPUT 1	Output	switch	FR WASHER	40
					FR WIPER LOW	(V) 15 10
					TURN RH TURN LH	1.2 V
37	01	D	11	Ole iff	P position	0 - 1.5 V
(V)	Ground	P position	Input	Shift position	Any position other than P	6 - 16 V
				Power switch OFF (Remote keyless entry communication)	Waiting  When operating buttons on Intelligent Key	12 V  (V) 15 10 5 0 JMMIA0572GB
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		_	_

(Mire color)		Description				Value
(Wire	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 7.0 - 8.0 V
					ON (Door open)	0 V
				5 ".1	Rear wiper stop position	Battery voltage
44 (LG)	Ground	Rear wiper stop position	Input	Power switch 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 ++10ms 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 7.0 - 8.0 V
					ON (Door open)	0 V
47 (SB)	Ground	Driver door switch	Input	Driver door switch	OFF (Door closed) ON (Door open)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V 0 V
						40
48 (W)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door closed)	(V) 15 10 5 0 ++10ms PKIB4960J
						7.0 - 8.0 V
					ON (Door open)	0 V

	nal No. color)	Description			Condition.	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
49 (L)	Ground	Luggage room lamp	Output	Luggage room lamp	OFF ON	Battery voltage 0 - 1 V
51	Cround	Back door request	loout	Back door re-	ON (Pressed)	0 - 1.5 V
(P)	Ground	switch	Input	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					OFF (Stopped)	0 V
(P)	Ground	Rear wiper	Output	Rear wiper	ON (Activated)	Battery voltage
55	Ground	Rear door UNLOCK	Output	Rear door	UNLOCK (Actuator activated)	Battery voltage
(G)	Ground	Neal door onlock	Output	ixeai dooi	Other then UNLOCK (Actuator idle)	0 V
56		Interior room lamp		Interior room lam	np battery saver activated.	0 V
(P)	Ground	power supply	Output	Interior room lam ed.	np battery saver not activat-	Battery voltage
57 (P)	Ground	Battery power sup- ply	Input	Power switch OF	F	Battery voltage
58 (W)	_	Air bag deployment information	Input	_	_	_
59	59 Cround Passenger door UN-	Output	Passangar door	UNLOCK (Actuator activated)	12 V	
(LG)	Ground	LOCK	Output	Passenger 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 1s 1s PKIC6370E
						(Turn signal lamp turn on: 9 - 16 V)
					Turn signal switch OFF	0 V
61 (R)	Ground	Tum 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)	Cround	control	Juipui	lamp	ON	0 - 1 V

## **BCM**

## < ECU DIAGNOSIS INFORMATION >

	inal No.	Description	1			Value
+ (VVIre	e color)	Signal name	Input/ Output		Condition	(Approx.)
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator activated)	Battery voltage
(V)	Ground	All doors Lock	Output	All doors	Other then LOCK (Actuator idle)	0 V
66	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator activated)	Battery voltage
(G)	Ground	LOCK	Output	'     0	Other then UNLOCK (Actuator idle)	0 V
67 (B)	Ground	Ground	Output	Power switch ON	ı	0 V
68	Ground	P/W power supply	Output	Power switch OF	F	0 V
(L)	Cround	(ON)	Calput	Power switch ON	1	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 OFF		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)	Ground	switch	IIIput	quest switch	OFF (Released)	Battery voltage
76	Ground	Power switch (push	Input	Power switch	Pressed	0 - 1.5 V
(SB)	0.000	switch)		(push switch)	Released	Battery voltage
78	Ground	Outside key antenna	Quitout	Driver door request switch op-	Intelligent Key not in antenna detection area (Approx. 2 m)	(V) 15 10 5 0
(P)	Giouria	(driver side) +	Output	erated with power switch ON	Intelligent Key in antenna detection area (80 cm or less)	(V) 15 10 5 0  MKIA5955GB

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	nal No. color)	Description				Value
+	- COIOI )	Signal name	Input/ Output		Condition	(Approx.)
79	Outside key antenna  Outside New York Street Crowd  Outside New York Street County Str		Intelligent Key not in antenna detection area (Approx. 2 m)	(V) 15 10 5 0		
(V)	Sidana	(driver side) -	Guipat	erated with power switch ON	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)	Clound	(passenger side) +	Output	operated with power switch ON	Intelligent Key in antenna detection area (80 cm or less)	(V) 15 10 5 0 500 ms JMKIA5955GB
81	Cround	Outside key antenna	Output	Passenger door request switch operated with power switch ON	Intelligent Key not in antenna detection area (Approx. 2 m)	(V) 15 10 5 0  JMKIA5954GB
(Y)		(passenger side) -	συιρυι		Intelligent Key in antenna detection area (80 cm or less)	(V) 15 10 5 0 5 0 JMKIA5955GB

	nal No.	Description			<del></del>	Value	٨
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	Α
82	Cround	Outside key antenna	Output	Back door request switch op-	Intelligent Key not in antenna detection area (Approx. 2 m)	(V) 15 10 5 0  JMKIAS954GB	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 JMKIA5955GB	E
83	0	Outside key antenna	0.4.4	Back door request switch op-	Intelligent Key not in antenna detection area (Approx. 2 m)	(V) 15 10 5 0	G H I
(B)	Ground	(rear bumper) -	Output	erated with power switch ON	Intelligent Key in antenna detection area (80 cm or less)	(V) 15 10 5 0 500 ms  JMKIA5955GB	J K L
84	Cround	Inside key antenna	Output	Power switch	Intelligent Key not in antenna detection area	(V) 15 10 11 1   11 11 11 11 11 11 11 11 11 11 11 11 11	BCS N
(BR)	Ground	(instrument center) +	Output	ON	Intelligent Key in antenna detection area	(V) 15 10 5 0 JMKIA3839GB	O P

	nal No. e color)	Description			On addition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
85	85 Cround Inside key		Output	Power switch	Intelligent Key not in antenna detection area	(V) 15 10 5 0 JMKIA5951GB
(Y)	Ground	(instrument center) -	Output	ON	Intelligent Key in antenna detection area	(V) 15 10 5 0 JMKIA3839GB
86	Ground	Inside key antenna	Power switch	Intelligent Key not in antenna detection area	(V) 15 10 5 0 11 1 s  JMKIA5951GB	
(G)	Ciodila	(rear seat) +	Output	ON	Intelligent Key in antenna detection area	(V) 15 10 5 0 JMKIA3839GB
87	Cround	Inside key antenna	Output	Power switch	Intelligent Key not in antenna detection area	(V) 15 10 5 0 JMKIA5951GB
(R)	Giound	ound (rear seat) – Outpu	Output	ON	Intelligent Key in antenna detection area	(V) 15 10 5 0 JMKIA3839GB

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

#### < ECU DIAGNOSIS INFORMATION >

	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	<b>I</b>	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)	Giouna	control	Output	Power switch	ON	Battery voltage	
100	Ground	Passenger door re-	Input	Passenger door	ON (Pressed)	0 - 1.5 V	
(P)	Ground	quest switch	input	request switch	OFF (Released)	Battery voltage	
102	Ground	P/N position	Input	Shift position	P or N position	Battery voltage	
(BG)	Giouna	r/in 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	

<sup>\*:</sup> 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 → 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

<sup>\*: &</sup>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.

#### **BCM**

#### < 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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INFOID:0000000010642164

#### 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.

### 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	
	<ul> <li>B2555: STOP LAMP CIRCUIT</li> <li>B2556: ENG START SW</li> <li>B2557: VEHICLE SPEED</li> <li>B2601: SHIFT P SIGNAL</li> <li>B2602: SHIFT P DIAG</li> <li>B2603: SHIFT POSITION</li> <li>B2604: SHIFT PN DIAG CAN</li> </ul>	
4	<ul> <li>B2614: ACC RELAY REQ F/B</li> <li>B2616: IGN RELAY2 REQ F/B</li> <li>B2617: ST RELAY REQ F/B</li> <li>B2618: IGN RELAY1 REQ F/B</li> <li>B261A: ENG SW</li> <li>B261E: FUEL MIS CONFIG</li> <li>B26F1: IGN RELAY OFF STUCK</li> </ul>	
	<ul> <li>B26F2: IGN RELAY ON STUCK</li> <li>B26F6: IGN USM CONT</li> <li>B26F7: LF DRIVER COMMUNICATION</li> <li>B26FC: KEYFOB MISS REGISTRATION</li> <li>C1729: VHCL SPEED SIG ERR</li> <li>U0415: VDC CAN CIR2</li> </ul>	
	<ul> <li>C1704: LOW PRESSURE FL</li> <li>C1705: LOW PRESSURE FR</li> <li>C1706: LOW PRESSURE RR</li> <li>C1707: LOW PRESSURE RL</li> </ul>	
5	<ul> <li>C1708: [NO DATA] FL</li> <li>C1709: [NO DATA] FR</li> <li>C1710: [NO DATA] RR</li> <li>C1711: [NO DATA] RL</li> <li>C1716: [PRESSDATA ERR] FL</li> <li>C1717: [PRESSDATA ERR] FR</li> <li>C1718: [PRESSDATA ERR] RR</li> <li>C1719: [PRESSDATA ERR] RL</li> </ul>	

Revision: June 2014 BCS-47 2015 Leaf NAM

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

<sup>\*: &</sup>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	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-63
U0415: VDC CAN CIR2	×	_	×	_	BCS-64
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-61
U1010: CONTROL UNIT(CAN)	_	_	_	_	BCS-62
B2192: ID DISCORD BCM-ECM*	×	_	_	_	SEC-70
B2193: CHAIN OF BCM-ECM*	×	_	_	_	SEC-71
B2195: ANTI-SCANNING	×	_	_	_	SEC-72
B2196: DONGLE NG	×	_	_	_	SEC-73
B2198: IMMOBI ANT NG	×	_	_	_	SEC-75
B2555: STOP LAMP CIRCUIT	_	×	×	_	SEC-78
B2556: ENG START SW	_	×	×	_	SEC-81
B2557: VEHICLE SPEED	×	×	×	_	SEC-83
B2562: LOW VOLTAGE	_	×	_	_	BCS-65
B2601: SHIFT P SIGNAL	×	×	×	_	SEC-84
B2602: SHIFT P DIAG	×	×	×	_	SEC-86
B2603: SHIFT POSITION	×	×	×	_	SEC-88
B2604: SHIFT PN DIAG CAN	×	×	×	_	SEC-90
B2614: ACC RELAY REQ F/B	_	×	×	_	PCS-55
B2616: IGN RELAY2 REQ F/B	_	×	×	_	PCS-57
B2617: ST RELAY REQ F/B	_	×	×	_	SEC-92
B2618: IGN RELAY1 REQ F/B	_	×	×	_	PCS-59
B261A: ENGINE SW	_	×	×	_	PCS-61
B261E: FUEL MIS CONFIG	_	×	×	_	SEC-96
B2621: INSIDE ANTENNA 1	_	×	_	_	DLK-69
B2622: INSIDE ANTENNA 2	_	×	_	_	DLK-71

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	A B
B2623: INSIDE ANTENNA 3	_	×	_	_	DLK-73	
B2626: OUTSIDE 1 ANTENNA	_	×	_	_	DLK-75	
B2627: OUTSIDE 2 ANTENNA	_	×	_	_	DLK-77	
B2628: OUTSIDE 3 ANTENNA	_	×	_	_	DLK-79	
B26F1: IGN RELAY OFF STUCK	×	×	×	_	PCS-63	
B26F2: IGN RELAY ON STUCK	×	×	×	_	PCS-64	
B26F6: IGN USM CONT FAIL	_	×	×	_	PCS-65	Е
B26F7: LF DRIVER COMMUNICATION	×	×	×	_	SEC-97	
B26FC: KEYFOB MISS REGISTRATION	_	×	×	_	SEC-98	F
C1704: LOW PRESSURE FL	_	_	_	×		
C1705: LOW PRESSURE FR	_	_	_	×	WT-24	
C1706: LOW PRESSURE RR	_	_	_	×	<u>VV 1-24</u>	(
C1707: LOW PRESSURE RL	_	_	_	×		
C1708: [NO DATA] FL	_	_	_	×		F
C1709: [NO DATA] FR	_	_	_	×	WT-26	-
C1710: [NO DATA] RR	_	_	_	×	<u>VV 1-20</u>	
C1711: [NO DATA] RL	_	_	_	×		
C1716: [PRESSDATA ERR] FL	_	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT 20	
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-29</u>	J
C1719: [PRESSDATA ERR] RL	_	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-31</u>	k

<sup>\*: &</sup>quot;ECM" is indicated on CONSULT display, however this means VCM on this vehicle.

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# WIRING DIAGRAM

**BCM** 

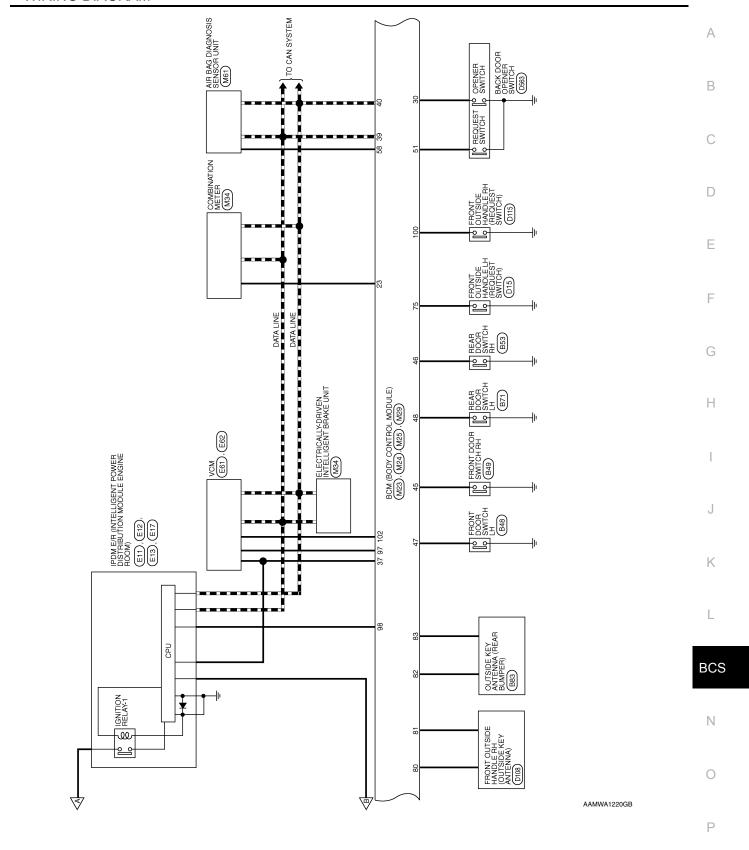
Wiring Diagram

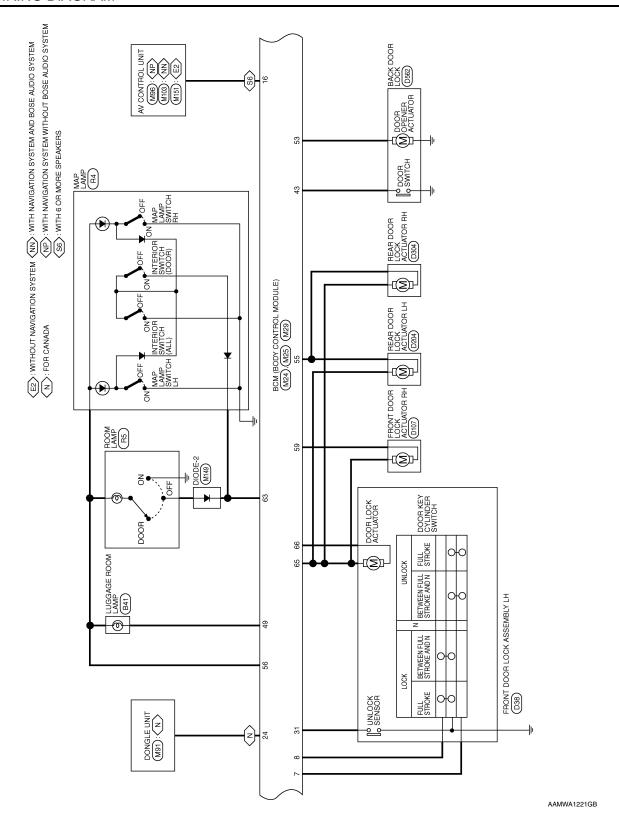
 $\triangle$ FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA) NATS ANTENNA AMP. (M49) INSIDE KEY ANTENNA (LUGGAGE ROOM) (B82) PUSH SWITCH INSIDE KEY ANTENNA (REAR SEAT) (B81) \_\_\_ ACC/ON 10A TILLUMINATION (\*) INSIDE KEY ANTENNA (INSTRUMENT) CENTER (M86) 96 90 92
BCM (BODY CONTROL MODULE)
(M23) · (M24) · (M25)
17 14 84 84 OPTICAL SENSOR (M16) IGNITION RELAY-2 J-3 REMOTE KEYLESS ENTRY RECEIVER (M75) -هه-TO ON POWER SUPPLY 10A 93 10A FROM AND FRANKASHER MOTOR (E41) 2 14 5 2 8 11 9 7 COMBINATION SWITCH (MZ7) 1 3 10A ∳ **∑** BATTERY

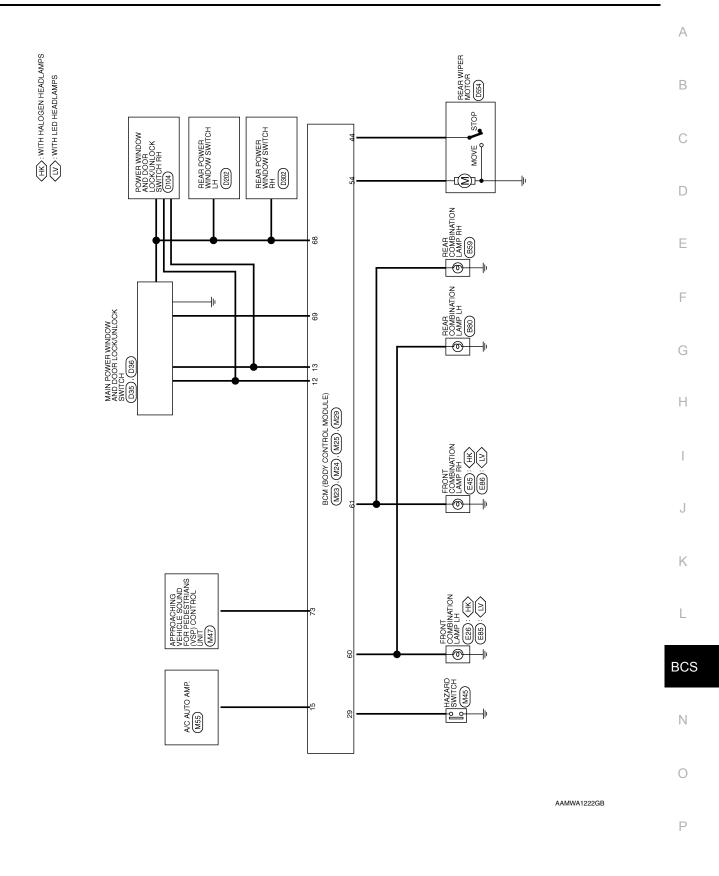
BCM (BODY CONTROL MODULE)

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INFOID:0000000010642166







# BCM (BODY CONTROL MODULE) CONNECTORS

Connector No. M23
Connector Name BCM (BODY CONTROL MODULE)

Connector Color WHITE

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

I No.	Color of Wire	Signal Name
84	>	DOOR ANTENNA (AS) -
82	8	BACK DOOR ANTENNA +
83	В	BACK DOOR ANTENNA –
84	BR	ROOM ANTENNA 1 +
85	<b>\</b>	ROOM ANTENNA 1 -
98	G	ROOM ANTENNA 2+
87	В	ROOM ANTENNA 2 -
88	G	ROOM ANTENNA 3+
89	В	ROOM ANTENNA 3 -
06	W	HIGH SIDE ENGINE START SW ILLUMINATION LED
16	>	POWER POSITION LED (LOCK POSITION LED)
85	В	LOW SIDE ENGINE START SW ILLUMINATION LED OUTPUT
93	GR	SMART KEYLESS BUZZER OUTPUT
94	1	ı

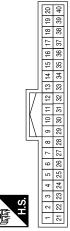
Signal Name	_	_	PUSH SW SIGNAL OUTPUT	I	REQUEST SW (DR)	ENGINE START SW	_	DOOR ANTENNA (DR) +	DOOR ANTENNA (DR) -	DOOR ANTENNA (AS) +
Color of Wire	_	_	>	ı	ГG	SB	_	Ь	^	FIG
Terminal No.	71	72	73	74	75	9/	22	78	79	80

AAMIA2418GB

Color of Signal Name	P COMBINATION SW OUTPUT 1	SHIFT P POSITION, PARKING POSITION SW	SB INTELLIGENT TUNER	L CAN-H	
Terminal No. Wire	36	37	88	33	9

Terminal No.	Color of Wire	Signal Name
15	>	REAR DEFOGGER SW
16	Œ	MR OUTPUT
17	>	UTO LI ISOR F PLY 0
18	L	KEYLESS TUNER, AUTO LIGHT SENSOR GND
19	_	_
20	ı	ı
21	۵	IMMOBILIZER ONE WAY COMMUNICATION (CLOCK)
22	-	_
23	Œ	SECURITY INDICATOR OUTPUT
24	SB	AUDIO/DONGLE LINK (SERIAL)
25	LG	IMMOBILIZER TWO WAY COMMUNICATION
26	_	_
27	_	_
28	_	_
29	G	HAZARD SW
30	>	TRUNK/BACK DOOR OPENER SW
31	×	DOOR LOCK STATUS SW (DR)
32	GR	COMBINATION SW OUTPUT 5
33	>	COMBINATION SW OUTPUT 4
34	×	COMBINATION SW OUTPUT 3
35	BG	COMBINATION SW OUTPUT 2

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



	Signal Name	_	COMBINATION SW INPUT 5	COMBINATION SW INPUT 4	COMBINATION SW INPUT 3	COMBINATION SW INPUT 2	COMBINATION SW INPUT 1	KEY CYLINDER UNLOCK SW	KEY CYLINDER LOCK SW	BRAKE SW1	ı	I	CENTRAL DOOR LOCK SW	CENTRAL DOOR UNLOCK SW	AUTO LIGHT SENSOR INPUT
Color of	Wire	_	٦	GR	BR	9	>	GR	Œ	BR	ı	ı	<b>\</b>	BR	g
	Terminal No.	1	2	3	4	5	9	2	8	6	10	11	12	13	14

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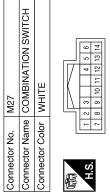
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	BCM (BODY CONTROL MODULE)	CK	
Connector No. M29	Connector Name BCM (BODY CONTROL MODULE)	Connector Color   BLACK	

Terminal No.	Color of Wire	Signal Name
	ı	1
	1	1
	>	DOOR SW (BACK)
	LG	REAR WIPER AUTO STOP SW
	BR	DOOR SW (AS)
	<u>~</u>	DOOR SW (RR)
	SB	DOOR SW (DR)
	M	DOOR SW (RL)
		LUGGAGE LAMP OUTPUT
	_	ı
	<u> </u>	REQUEST SW (TRUNK/BACK DOOR)
	-	-
•	GR	TRUNK/BACK DOOR OPEN OUTPUT
	۵	REAR WIPER MOTOR OUTPUT
		DOOR UNLOCK OUTPUT (RR, RL)



Signal Name	I	ı	ı	ı	1	ı	ı	ı	I	I	ı	I	-	I
Color of Wire	LG	GR	В	SB	BR	В	*	Т	BG	٨	Ь	۸	GR	g
Terminal No.	-	2	3	4	5	9	7	8	6	10	1	12	13	41



Signal Name	BATTERY SAVER OUTPUT	BATTERY (FUSE)	SHOCK DETECT SIGNAL	DOOR UNLOCK OUTPUT (AS)	FLASHER OUTPUT (LEFT)	FLASHER OUTPUT (RIGHT)	ı	ROOM LAMP OUTPUT	1	DOOR LOCK OUTPUT	DOOR UNLOCK COMMON (DR)	GND	POWER WINDOW POWER SUPPLY (RAP)	POWER WINDOW POWER SUPPLY (BATTERY)	BATTERY (F/L)
Color of Wire	۵	۵	8	LG	>	В	1	BR	1	^	g	В	_	Œ	>
Terminal No.	56	57	28	59	09	61	62	63	64	65	99	67	89	69	70



AAMIA2420GB

#### 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:0000000010642167

#### 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.

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#### 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:0000000010642168

## 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.

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>> GO TO 2

#### 2.REPLACE BCM

Replace BCM. Refer to BCS-72, "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-58, "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-58, "CONFIGURATION (BCM): Work Procedure".

>> GO TO 4.

## 4. INITIALIZE BCM (NATS)

Perform BCM initialization. (NATS)

>> Work End.

## CONFIGURATION (BCM)

**BCS-57** Revision: June 2014 2015 Leaf NAM **BCS** 

#### **INSPECTION AND ADJUSTMENT**

#### < BASIC INSPECTION >

## CONFIGURATION (BCM): Description

INFOID:0000000010642169

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"	<ul><li>Reads the vehicle configuration of current BCM.</li><li>Saves the read vehicle configuration.</li></ul>
"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:0000000010642170

## 1. WRITING MODE SELECTION

#### (P)CONSULT

Select "Reprogramming, Configuration" of BCM.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

#### 2.PERFORM "SAVED DATA LIST"

#### CONSULT

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

>> Work End.

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

#### (E)CONSULT

- Select "After Replace ECU" or "Manual Configuration".
- Identify the correct model and configuration list. Refer to <u>BCS-59</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:0000000010642171

#### **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:0000000010642172

• 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:000000010642174

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-37</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:0000000010642176

## 1.PERFORM SELF DIAGNOSTIC

- 1. 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-17, "Trouble Diagnosis Flow Chart".

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

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Revision: June 2014 BCS-61 2015 Leaf NAM

## **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:0000000010642178

# 1.REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to BCS-72, "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-63, "Diagnosis Procedure".

NO >> Inspection End.

#### Diagnosis Procedure

## 1.VCM SELF-DIAG RESULTS

Perform Self-Diagnostic Result of VCM with CONSULT. Refer to EVC-103, "DTC Index".

#### Are any DTCs detected?

YES >> Repair or replace the malfunctioning part.

NO >> Replace BCM. Refer to <u>BCS-72</u>. "Removal and Installation".

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INFOID:0000000010642180

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#### **U0415 VEHICLE SPEED**

#### < DTC/CIRCUIT DIAGNOSIS >

## U0415 VEHICLE SPEED

Description INFOID:000000010642181

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-64, "Diagnosis Procedure".

NO >> Inspection End.

## Diagnosis Procedure

INFOID:0000000010642183

# $1.\mathsf{abs}$ 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 <u>BRC-56</u>, "DTC Index".

#### Are any DTCs detected?

YES >> Repair or replace the malfunctioning part.

NO >> Replace BCM. Refer to BCS-72. "Removal and Installation".

#### **B2562 LOW VOLTAGE**

#### < DTC/CIRCUIT DIAGNOSIS >

## **B2562 LOW VOLTAGE**

**DTC Logic** INFOID:0000000010642184

#### 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-65, "Diagnosis Procedure".

>> Inspection End. NO

## Diagnosis Procedure

## 1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit. Refer to BCS-66, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-72, "Removal and Installation".

>> Repair or replace harness or connectors. NO

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#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

## POWER SUPPLY AND GROUND CIRCUIT

## Diagnosis Procedure

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Regarding Wiring Diagram information, refer to BCS-50. "Wiring Diagram".

## 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	Battery power suppry	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

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

В	CM	Ground	Voltage	
Connector	Connector Terminal		(Approx.)	
M25	57		Battery voltage	
IVIZO	70	<del>_</del>	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.

В	CM	Ground	Continuity	
Connector	Terminal	Giodila	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

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Regarding Wiring Diagram information, refer to BCS-50, "Wiring Diagram".

## 1. CHECK INPUT 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	CM	Combinat	Combination switch				
signal	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	В	СМ	Ground	Continuity		
signal	Connector	Terminal	Giouna	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.

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

#### Is the inspection result normal?

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## **COMBINATION SWITCH INPUT CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

>> Replace combination switch. Refer to <u>BCS-73</u>, "Removal and Installation". >> Replace BCM. Refer to <u>BCS-72</u>, "Removal and Installation". YES

NO

#### **COMBINATION SWITCH OUTPUT CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

## COMBINATION SWITCH OUTPUT CIRCUIT

## Diagnosis Procedure

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Regarding Wiring Diagram information, refer to BCS-50, "Wiring Diagram".

## 1. CHECK OUTPUT 1 - 5 CIRCUIT FOR OPEN

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

Combination switch	В	СМ	Combinat	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?

>> GO TO 2. YFS

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	ВС	CM	Ground	Continuity		
signal	Connector	Terminal	Giouna	Continuity		
OUTPUT 1		6				
OUTPUT 2		5				
OUTPUT 3	M24	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

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

DCM signal	ВСМ			Voltage
BCM signal	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		<u> </u>
INPUT 5		2		

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## **COMBINATION SWITCH OUTPUT CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

Yes >> Replace BCM. Refer to <u>BCS-72, "Removal and Installation"</u>.

No >> Replace combination switch. Refer to <u>BCS-73</u>, "Removal and Installation".

## **COMBINATION SWITCH SYSTEM SYMPTOMS**

< SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS

## COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table

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

	Ma	Ifun	ction	item:	X
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								Data	Monit	or Iten	า						
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		×		×												×	
1										×				×	×		×
J									×		×	×	×				
K		All Items															
L			If only	y one i	item is	detec	ted or	the ite	em is	not ap	plicabl	e to c	ombin	ations	A to h	<	

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

Malfunction combination	Malfunctioning part	Repair or replace
Α	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-67, "Diagnosis Procedure".
D	Combination switch INPUT 4 circuit	part. Note: to boo or, biagnosis i roccadic.
E	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 BCS-69, "Diagnosis Procedure".
I	Combination switch OUTPUT 4 circuit	ing part. Relation to <u>Boo co. Biagnosis i rosedure</u> .
J	Combination switch OUTPUT 5 circuit	
K	ВСМ	Replace BCM. Refer to BCS-72, "Removal and Installation".
L	Combination switch	Replace combination switch. Refer to BCS-73, "Removal and Installation".

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## REMOVAL AND INSTALLATION

#### **BCM**

#### Removal and Installation

INFOID:0000000010642190

#### **CAUTION:**

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>BCS-57</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)</u>: <u>Description</u>".

#### **REMOVAL**

- 1. Disconnect the 12V battery cable from the negative terminal. Refer to <u>BCS-4, "Precaution for Removing 12V Battery"</u>.
- 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

Installation is in the reverse order of removal.

#### **CAUTION:**

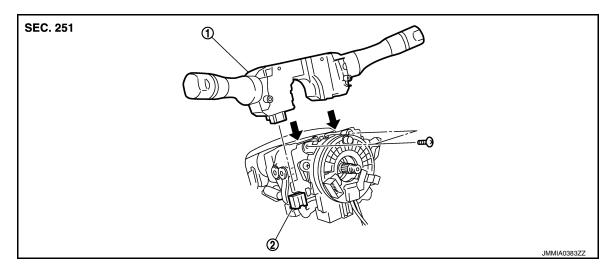
- Be sure to perform "WRITE CONFIGURATION" when replacing the BCM. Refer to BCS-57, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description"
- Be sure to perform the system initialization (NATS) when replacing BCM. Refer to <u>BCS-57</u>, "<u>ADDI-TIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)</u>: Work <u>Procedure</u>".
- When replacing BCM, if new BCM does not come with keyfobs attached, all existing keyfobs must be re-registered.
- For initialization and registration of Intelligent Keys, refer to CONSULT Immobilizer mode and follow the on-screen instructions

#### **COMBINATION SWITCH**

#### < REMOVAL AND INSTALLATION >

## **COMBINATION SWITCH**

Exploded View



1. Combination switch

2. Combination switch connector

#### Removal and Installation

INFOID:0000000010642192

#### **REMOVAL**

- Disconnect the 12V battery cable from the positive and negative terminal. Refer to <u>PG-82</u>, "<u>Removal and Installation</u>".
- 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**

Installation is in the reverse order of removal.

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