

# SECTION **BCS**

## BODY CONTROL SYSTEM

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# PRECAUTIONS

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## PRECAUTION

### PRECAUTIONS

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

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

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

#### Precautions for Removing Battery Terminal

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

#### **NOTE:**

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

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

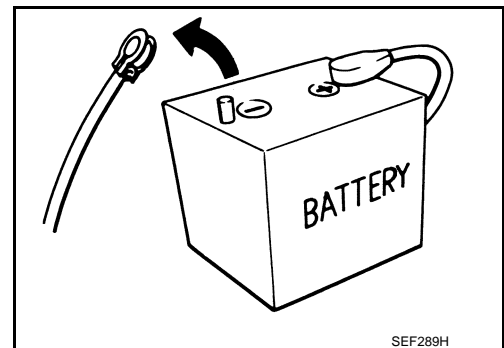
#### **NOTE:**

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

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

#### **NOTE:**

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



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# COMPONENT PARTS

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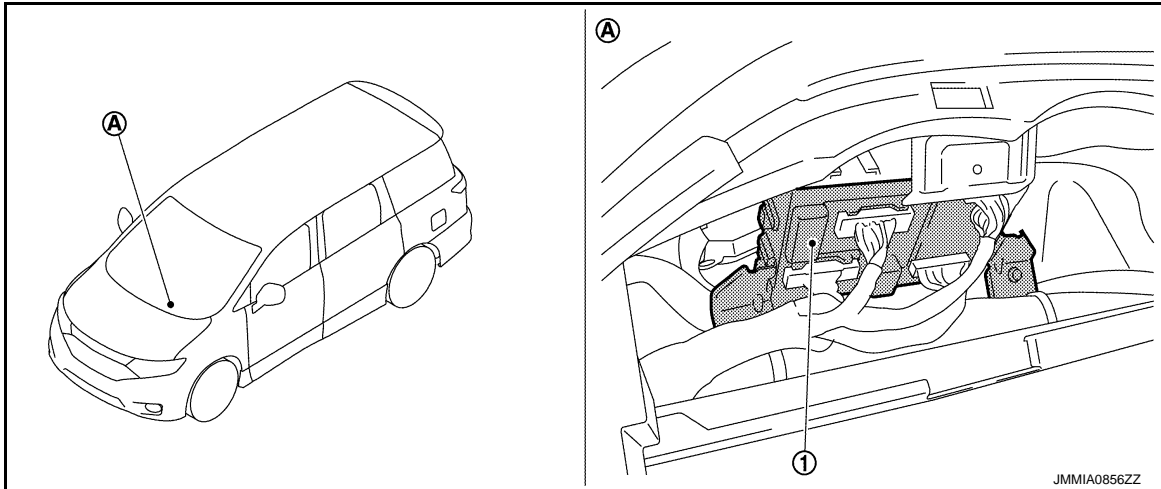
## SYSTEM DESCRIPTION

### COMPONENT PARTS

#### BODY CONTROL SYSTEM

#### BODY CONTROL SYSTEM : Component Parts Location

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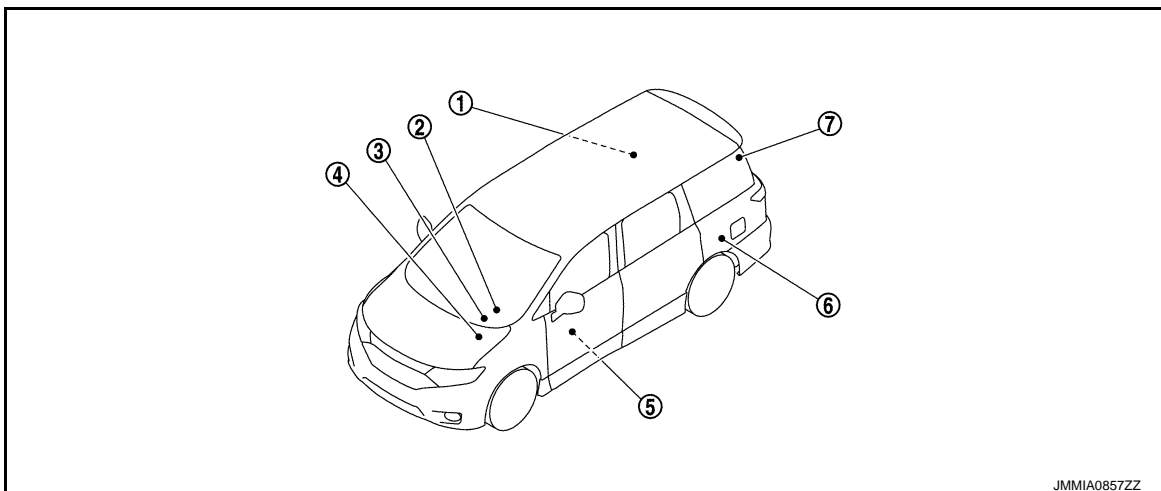


1. BCM
- A. Behind of combination meter

### POWER CONSUMPTION CONTROL SYSTEM

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

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1. Sliding door control unit RH  
Refer to [DLK-23. "AUTOMATIC SLIDING DOOR SYSTEM : Component Parts Location"](#).
2. Combination meter  
Refer to [MWI-6. "METER SYSTEM : Component Parts Location"](#).
3. BCM  
Refer to [BCS-4. "BODY CONTROL SYSTEM : Component Parts Location"](#).

# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

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- |   |   |  |     |
|---|---|--|-----|
| 4. IPDM E/R<br>Refer to <a href="#">PCS-4, "IPDM E/R : Component Parts Location"</a> .  | 5. Driver seat control unit<br>Refer to <a href="#">ADP-5, "Component Parts Location"</a> . | 6. Sliding door control unit LH<br>Refer to <a href="#">DLK-23, "AUTOMATIC SLIDING DOOR SYSTEM : Component Parts Location"</a> . | A   |
| 7. Automatic back door control module<br>Refer to <a href="#">DLK-22, "AUTOMATIC BACK DOOR SYSTEM : Component Parts Location"</a> . |   |  | B   |
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# SYSTEM

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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 ignition 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	<a href="#">BCS-8, "COMBINATION SWITCH READING SYSTEM : System Description"</a>
Signal buffer system	<a href="#">BCS-12, "SIGNAL BUFFER SYSTEM : System Description"</a>
Power consumption control system	<a href="#">BCS-13, "POWER CONSUMPTION CONTROL SYSTEM : System Description"</a>
Headlamp system	<ul style="list-style-type: none"> <li>• <a href="#">EXL-12, "HEADLAMP SYSTEM : System Description"</a> (Xenon type headlamp)</li> <li>• <a href="#">EXL-124, "HEADLAMP SYSTEM : System Description"</a> (Halogen type headlamp)</li> </ul>
Auto light system	<ul style="list-style-type: none"> <li>• Xenon type headlamp models</li> <li>- <a href="#">EXL-14, "AUTO LIGHT SYSTEM (EXCEPT FOR CANADA) : System Description"</a> (Except for Canada)</li> <li>- <a href="#">EXL-17, "AUTO LIGHT SYSTEM (FOR CANADA) : System Description"</a> (For Canada)</li> <li>• Halogen type headlamp models</li> <li>- <a href="#">EXL-14, "AUTO LIGHT SYSTEM (EXCEPT FOR CANADA) : System Description"</a> (Except for Canada)</li> <li>- <a href="#">EXL-129, "AUTO LIGHT SYSTEM (FOR CANADA) : System Description"</a> (For Canada)</li> </ul>
Daytime running light system	<ul style="list-style-type: none"> <li>• <a href="#">EXL-20, "DAYTIME RUNNING LIGHT SYSTEM : System Description"</a> (Xenon type headlamp)</li> <li>• <a href="#">EXL-132, "DAYTIME RUNNING LIGHT SYSTEM : System Description"</a> (Halogen type headlamp)</li> </ul>
Turn signal and hazard warning lamp system	<ul style="list-style-type: none"> <li>• <a href="#">EXL-22, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description"</a> (Xenon type headlamp)</li> <li>• <a href="#">EXL-134, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description"</a> (Halogen type headlamp)</li> </ul>
Parking, license plate, side marker and tail lamps system	<ul style="list-style-type: none"> <li>• <a href="#">EXL-23, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description"</a> (Xenon type headlamp)</li> <li>• <a href="#">EXL-135, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description"</a> (Halogen type headlamp)</li> </ul>
Front fog lamp system	<ul style="list-style-type: none"> <li>• <a href="#">EXL-26, "FRONT FOG LAMP SYSTEM : System Description"</a> (Xenon type headlamp)</li> <li>• <a href="#">EXL-138, "FRONT FOG LAMP SYSTEM : System Description"</a> (Halogen type headlamp)</li> </ul>
Exterior lamp battery saver system	<ul style="list-style-type: none"> <li>• <a href="#">EXL-28, "EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description"</a> (Xenon type headlamp)</li> <li>• <a href="#">EXL-140, "EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description"</a> (Halogen type headlamp)</li> </ul>

# SYSTEM

## < SYSTEM DESCRIPTION >

System	Reference
Interior room lamp control system	<a href="#">INL-6, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"</a>
Interior room lamp battery saver system	<a href="#">INL-11, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description"</a>
Front wiper and washer system	<a href="#">WW-8, "FRONT WIPER AND WASHER SYSTEM : System Description"</a>
Rear wiper and washer system	<a href="#">WW-12, "REAR WIPER AND WASHER SYSTEM : System Description"</a>
Rear window defogger system	<a href="#">DEF-7, "System Description"</a>
Warning chime system	<a href="#">WCS-5, "WARNING CHIME SYSTEM : System Description"</a>
Air conditioning control system	<ul style="list-style-type: none"> <li>• <a href="#">HAC-16, "FRONT AUTOMATIC AIR CONDITIONING SYSTEM : System Description"</a> (Automatic air conditioning)</li> <li>• <a href="#">HAC-162, "FRONT MANUAL AIR CONDITIONING SYSTEM : System Description"</a> (Manual air conditioning)</li> </ul>
Power door lock system	<a href="#">DLK-33, "System Description"</a>
Intelligent Key system/engine start system	<a href="#">DLK-36, "INTELLIGENT KEY SYSTEM : System Description"</a>
Nissan Vehicle Immobilizer System (NVIS) - NATS	<a href="#">SEC-16, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS : System Description"</a>
Vehicle security system	Theft warning alarm
	Panic alarm
Power window system	<a href="#">PWC-9, "System Description"</a>
Retained accessory power (RAP) system	<a href="#">PWC-9, "System Description"</a>
TPMS (Tire Pressure Monitoring System)	<a href="#">WT-8, "System Description"</a>

## 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 engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2196: DONGLE NG	Inhibit engine cranking	Erase DTC
B2198: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> <li>• Starter motor relay control signal</li> <li>• Starter relay status signal (CAN)</li> </ul>
B260F: ENG STATE SIG LOST	Inhibit engine cranking	When any of the following conditions are fulfilled <ul style="list-style-type: none"> <li>• Ignition switch changes to ACC</li> <li>• Receives engine status signal (CAN)</li> </ul>
B26F1: IGN RELAY OFF	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>• Ignition switch ON signal (CAN: Transmitted from BCM): ON</li> <li>• Ignition switch ON signal (CAN: Transmitted from IPDM E/R): ON</li> </ul>
B26F2: IGN RELAY ON	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>• Ignition switch ON signal (CAN: Transmitted from BCM): OFF</li> <li>• Ignition switch ON signal (CAN: Transmitted from IPDM E/R): OFF</li> </ul>
B26F3: START CONT RLY ON	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>• Starter control relay signal (CAN: Transmitted from BCM): OFF</li> <li>• Starter control relay signal (CAN: Transmitted from IPDM E/R): OFF</li> </ul>

# SYSTEM

## < SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Cancellation
B26F4: START CONT RLY OFF	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>• Starter control relay signal (CAN: Transmitted from BCM): ON</li> <li>• Starter control relay signal (CAN: Transmitted from IPDM E/R): ON</li> </ul>
B26F7: BCM	Inhibit engine cranking by Intelligent Key system	When room antenna and luggage room antenna functions normally

### REAR WIPER MOTOR PROTECTION

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

Condition of cancellation

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

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

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

**NOTE:**

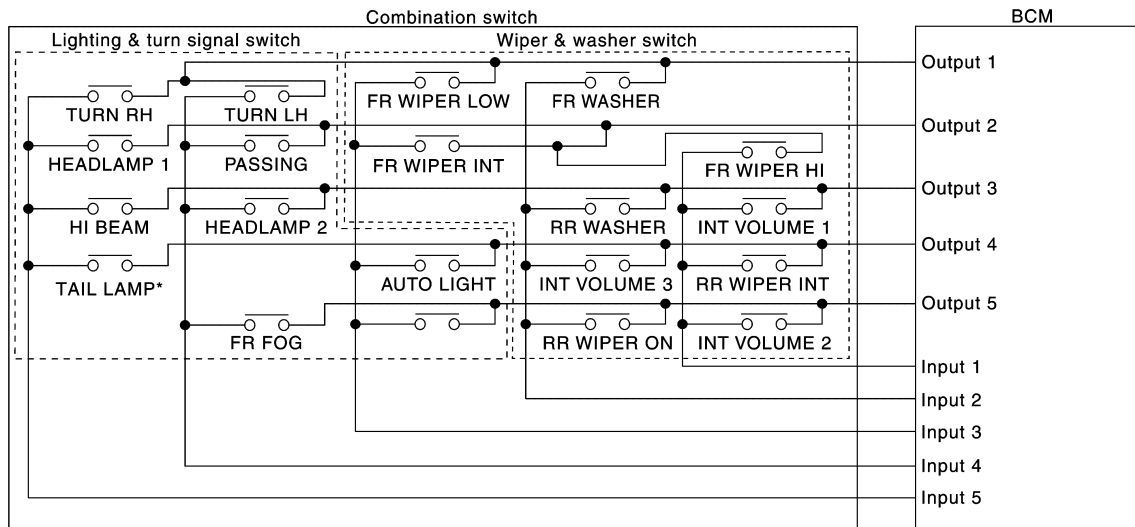
When voltage of battery power supply is approximately 9 V or more, combination switch reading function returns to normal operation.

### COMBINATION SWITCH READING SYSTEM

#### COMBINATION SWITCH READING SYSTEM : System Description

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#### SYSTEM DIAGRAM



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**NOTE:**

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

#### OUTLINE

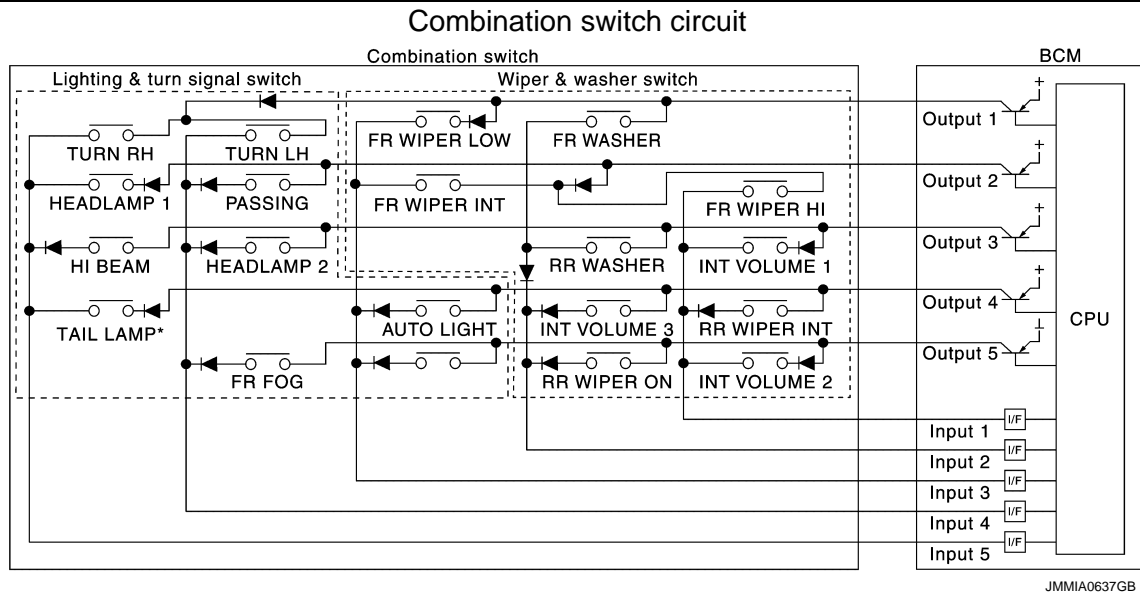
- BCM reads the status of the combination switch (light, turn signal, wiper and washer) and recognizes the status of each switch.
- BCM has a combination of 5 output terminals (OUTPUT 1 - 5) and 5 input terminals (INPUT 1 - 5). It reads a maximum of 20 switch status.

#### COMBINATION SWITCH MATRIX



# SYSTEM

## < SYSTEM DESCRIPTION >



**NOTE:**

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

Combination switch INPUT-OUTPUT system list

System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
OUTPUT 1	—	FR WASHER	FR WIPER LOW	TURN LH	TURN RH
OUTPUT 2	FR WIPER HI	—	FR WIPER INT	PASSING	HEADLAMP 1
OUTPUT 3	INT VOLUME 1	RR WASHER	—	HEADLAMP 2	HI BEAM
OUTPUT 4	RR WIPER INT	INT VOLUME 3	AUTO LIGHT	—	TAIL LAMP
OUTPUT 5	INT VOLUME 2	RR WIPER ON	—	FR FOG	—

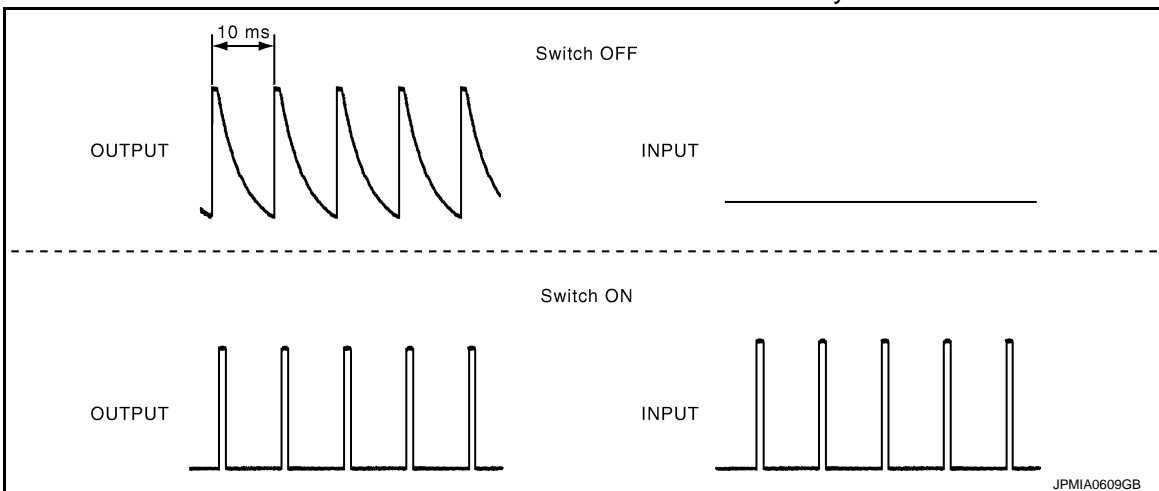
**NOTE:**

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:**

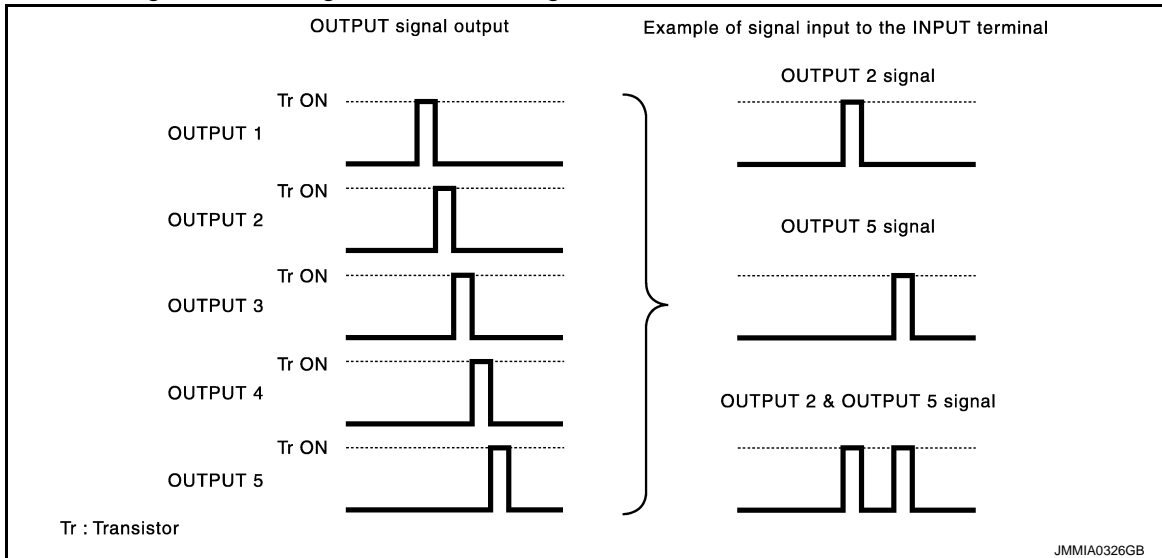
BCM reads the status of the combination switch at 60 ms interval when BCM is controlled at low power consumption control mode.

- 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 → 2 → 3 → 4 → 5, and outputs voltage waveform.

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## < SYSTEM DESCRIPTION >

- 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.

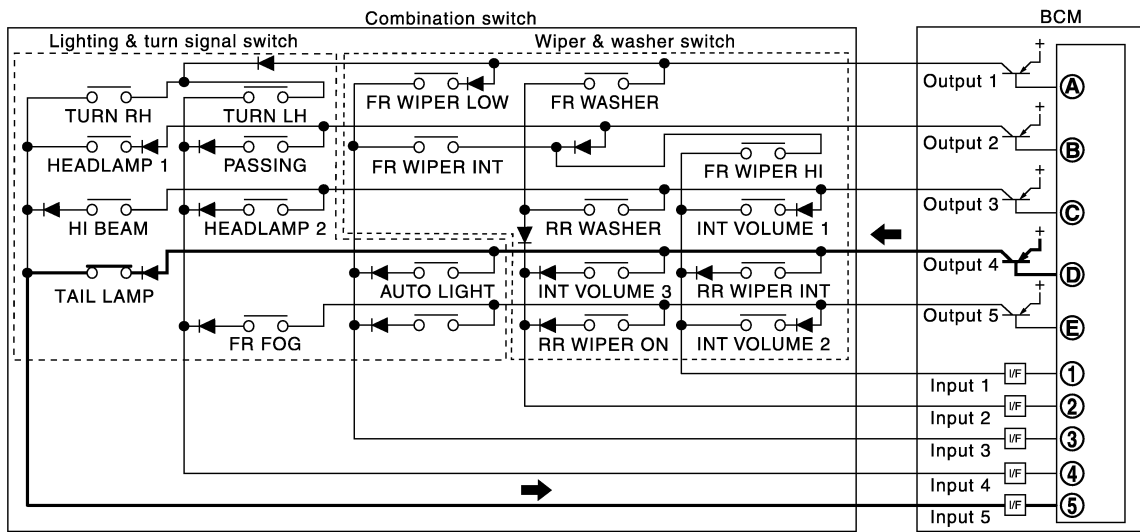


### Operation Example

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.



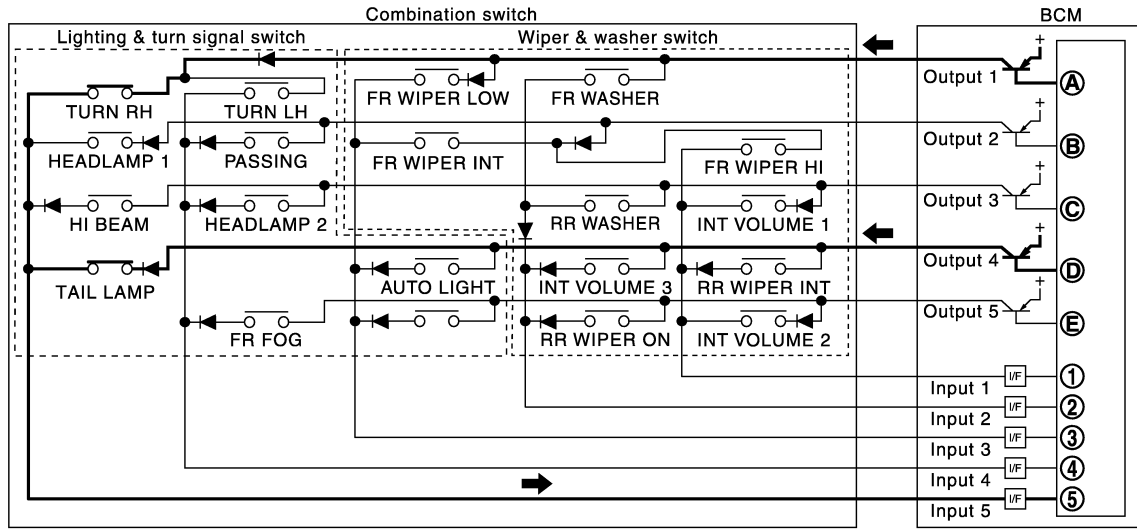
- BCM detects the combination switch status signal "5D" when the signal of OUTPUT 4 is input to INPUT 5.
- BCM judges that the TAIL LAMP switch is ON when the signal "5D" is detected.

Example 2: When some switches (TURN RH switch, TAIL LAMP switch) are turned ON

# SYSTEM

## < SYSTEM DESCRIPTION >

- 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.



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- 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 INTERMITTENT DIAL POSITION

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

Wiper intermittent dial position	Switch status		
	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
6	OFF	ON	ON
7	OFF	ON	OFF

#### NOTE:

For details of wiper intermittent dial position, refer to [WW-8, "FRONT WIPER AND WASHER SYSTEM : System Description"](#).

### SIGNAL BUFFER SYSTEM

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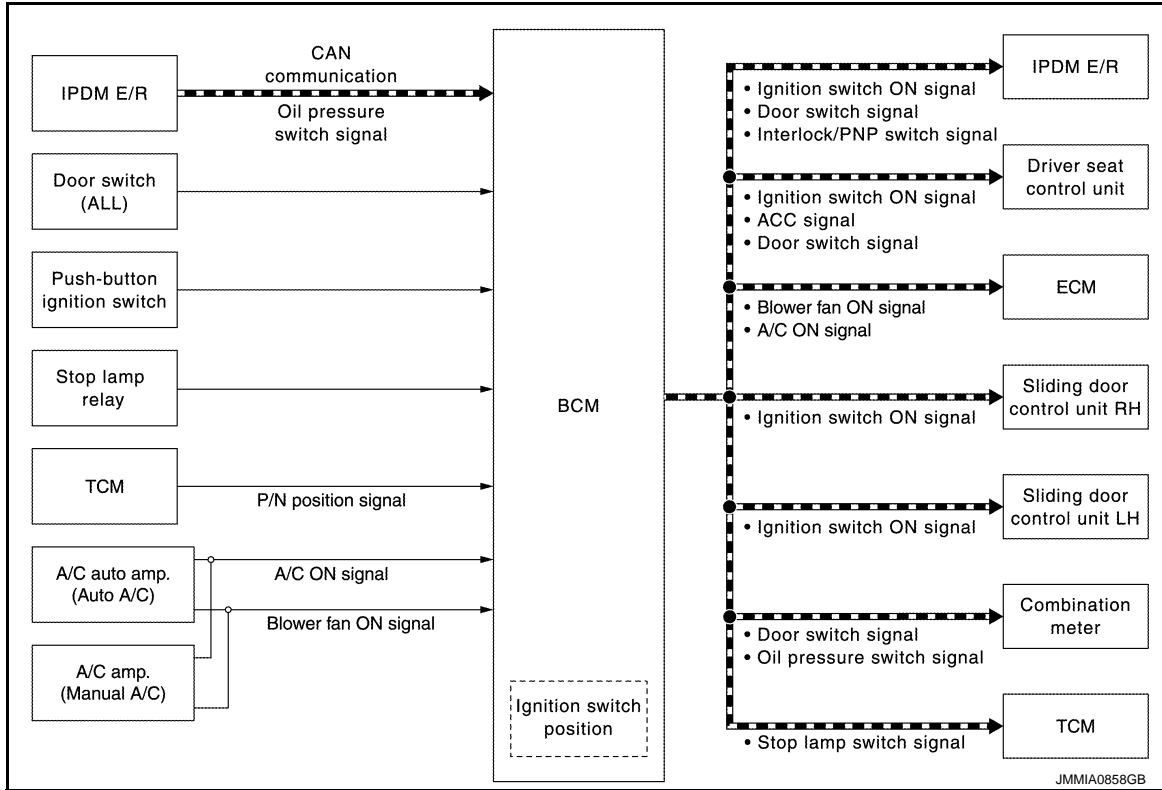
# SYSTEM

< SYSTEM DESCRIPTION >

## SIGNAL BUFFER SYSTEM : System Description

INFOID:000000009651686

### 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
<ul style="list-style-type: none"> <li>Ignition switch ON signal</li> <li>ACC signal</li> </ul>	Push-button ignition switch (Push switch)	<ul style="list-style-type: none"> <li>IPDM E/R (CAN)</li> <li>Driver seat control unit (CAN)</li> <li>Sliding door control unit LH (CAN)</li> <li>Sliding door control unit RH (CAN)</li> </ul>	Inputs the push-button ignition switch (push switch) signal and transmits the ignition switch status judged with BCM via CAN communication.
Door switch signal	Any door switch	<ul style="list-style-type: none"> <li>Combination meter (CAN)</li> <li>IPDM E/R (CAN)</li> <li>Driver seat control unit (CAN)</li> </ul>	Inputs the door switch signal and transmits it via CAN communication.
Oil pressure switch signal	IPDM E/R (CAN)	Combination meter (CAN)	Transmits the received oil pressure switch signal via CAN communication.
Blower fan ON signal	<ul style="list-style-type: none"> <li>A/C auto amp. (Auto A/C)</li> <li>A/C amp. (Manual A/C)</li> </ul>	ECM (CAN)	Input blower fan ON signal, and transmits it via CAN communication.
A/C ON signal	<ul style="list-style-type: none"> <li>A/C auto amp. (Auto A/C)</li> <li>A/C amp. (Manual A/C)</li> </ul>	ECM (CAN)	Input A/C ON signal, and transmits it via CAN communication.

# SYSTEM

## < SYSTEM DESCRIPTION >

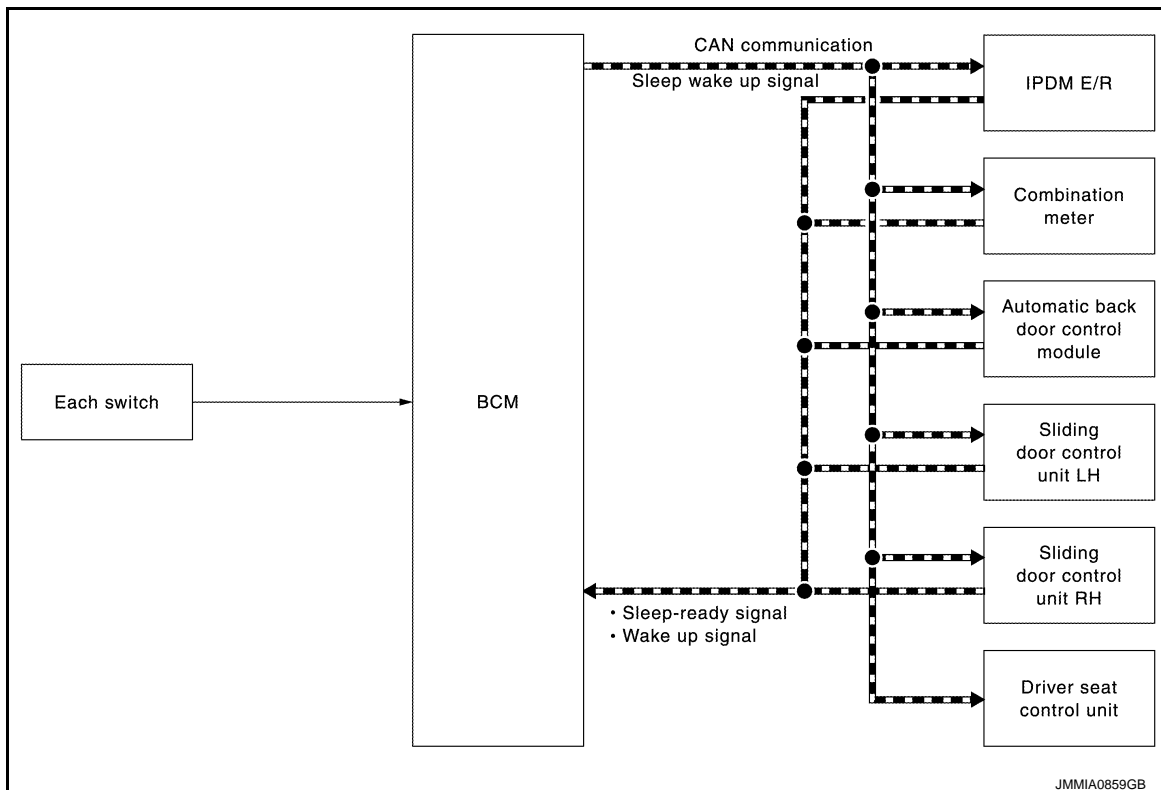
Signal name	Input	Output	Description
Stop lamp switch signal	Stop lamp relay	TCM (CAN)	Inputs the stop lamp switch 1 signal and stop lamp switch 2 signal, and transmits it via CAN communication.
Interlock/PNP switch signal	TCM	IPDM E/R (CAN)	Inputs the P/N position signal and transmits Interlock/PNP switch signal via CAN communication.

## POWER CONSUMPTION CONTROL SYSTEM

### POWER CONSUMPTION CONTROL SYSTEM : System Description

INFOID:000000009651687

### 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, driver seat control unit, automatic back door control module, sliding door control unit LH and sliding door control unit RH) that operates with the ignition 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

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# SYSTEM

## < SYSTEM DESCRIPTION >

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, combination meter, automatic back door control module, sliding door control unit LH and sliding door control unit RH 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.

### Sleep condition

CAN sleep condition	BCM sleep condition
<ul style="list-style-type: none"><li>• Receiving the sleep-ready signal (ready) from all units</li><li>• Ignition switch: OFF</li><li>• Vehicle security system: 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>• Rear window defogger: OFF</li></ul>	<ul style="list-style-type: none"><li>• Interior room lamp battery saver: Time out*</li><li>• RAP system: OFF</li><li>• NVIS: Not operation</li><li>• Remote keyless entry receiver communication status: No communication</li><li>• LOCK indicator lamp: Not operation</li><li>• ACC indicator lamp: Not operation</li><li>• ON indicator lamp: Not operation</li></ul>

### NOTE:

\*: Refer to [INL-11, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description"](#) for details of the interior room lamp battery saver time.

### Wake-up operation

- BCM transmits sleep wake up signal (wake up) to each unit when any condition listed below is established, and then goes into normal mode from low power consumption mode.
- Each unit starts transmissions with CAN communication by receiving sleep wake up signals. Each unit transmit wake up signals to BCM with CAN communication to convey the start of CAN communication.

# SYSTEM

## < SYSTEM DESCRIPTION >

Wake-up condition		
BCM wake-up condition	CAN wake-up condition	
	<ul style="list-style-type: none"> <li>• Receiving the sleep-ready signal (Not-ready) from any units</li> <li>• Push-button ignition 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> <li>• HEADLAMP 2 switch: OFF → ON, ON → OFF</li> <li>• TAIL LAMP switch: OFF → ON</li> <li>• FR FOG switch: OFF → ON, ON → OFF</li> <li>• TURN RH: OFF → ON</li> <li>• TURN LH: OFF → ON</li> </ul>	A B C D
Back door opener switch: OFF → ON	<ul style="list-style-type: none"> <li>• Driver door switch: OFF → ON, ON → OFF</li> <li>• Passenger door switch: OFF → ON, ON → OFF</li> <li>• Rear RH door switch: OFF → ON, ON → OFF</li> <li>• Rear LH door switch: OFF → ON, ON → OFF</li> <li>• Back door switch: OFF → ON, ON → OFF</li> <li>• Driver door request switch: OFF → ON</li> <li>• Passenger door request switch: OFF → ON</li> <li>• Back door request switch: OFF → ON</li> <li>• Stop lamp switch: ON</li> <li>• Door lock and unlock switch: NEUTRAL → LOCK, NEUTRAL → UNLOCK</li> <li>• Front door lock assembly (driver side) (door key cylinder switch): NEUTRAL → LOCK, NEUTRAL → UNLOCK</li> <li>• Remote keyless entry receiver communication: Receiving</li> <li>• Front door lock assembly (driver side) (unlock sensor): OFF → ON, ON → OFF</li> </ul>	E F G H I J K L

BCS

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

#### COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000009651688

#### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	<ul style="list-style-type: none"> <li>Read and save the vehicle specification.</li> <li>Write the vehicle specification when replacing BCM.</li> </ul>

#### SYSTEM APPLICATION

BCM can perform the following functions for each system.

#### NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control system	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioning control system	AIR CONDITONER		×	×*
<ul style="list-style-type: none"> <li>Intelligent Key system</li> <li>Engine start system</li> </ul>	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

#### NOTE:

\*: For models with automatic air conditioning control system, this diagnosis mode is not used.

#### FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.



# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		A
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected*	While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (LOCK)]	B
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (OFF)]	C
	LOCK>ACC		While turning power supply position from OFF (LOCK) to ACC	
	ACC>ON		While turning power supply position from ACC to ON	D
	RUN>ACC		While turning power supply position from RUN to ACC (Except emergency stop operation)	
	CRANK>RUN		While turning power supply position from CRANK to RUN	E
	RUN>URGENT		While turning power supply position from RUN to ACC (Emergency stop operation)	
	ACC>OFF		While turning power supply position from ACC to OFF (OFF)	F
	OFF>LOCK		While turning power supply position from OFF (OFF) to OFF (LOCK)	
	OFF>ACC		While turning power supply position from OFF (OFF) to ACC	G
	ON>CRANK		While turning power supply position from ON to CRANK	
	OFF>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (OFF)] to low power consumption mode	H
	LOCK>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (LOCK)] to low power consumption mode	
	LOCK		Power supply position is OFF (LOCK)	I
	OFF		Power supply position is OFF (OFF)	
	ACC		Power supply position is ACC	J
	ON		Power supply position is ON	
ENGINE RUN	Power supply position is RUN	K		
CRANKING	Power supply position is CRANK			
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected <ul style="list-style-type: none"> <li>• The number is 0 when a malfunction is detected now.</li> <li>• The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON.</li> <li>• The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.</li> </ul>		L

### NOTE:

\*: Refer to the following for details of the power supply position.

- OFF (OFF, LOCK): Ignition switch OFF
- ACC: Ignition switch ACC
- IGN: Ignition switch ON with engine stopped
- RUN: Ignition switch ON with engine running
- CRANK: At engine cranking

Power supply position shifts to "OFF (LOCK)" from "OFF (OFF)", when ignition switch is in the OFF position, shift position is in the P position, and any of the following conditions are met.

- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "OFF (LOCK)".

## DOOR LOCK

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# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:000000009978857

### BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

### WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operation with this mode <ul style="list-style-type: none"> <li>• On: Operate</li> <li>• Off: Non-operation</li> </ul>
AUTOMATIC DOOR LOCK SELECT	Automatic door lock function mode can be selected from the following in this mode <ul style="list-style-type: none"> <li>• VH SPD: All doors are locked when vehicle speed more than 24 km/h (15 MPH)</li> <li>• P RANGE: All doors are locked when shifting the selector lever from P position to other than the P position</li> </ul>
AUTOMATIC DOOR UNLOCK SELECT	Automatic door unlock function mode can be selected from the following in this mode <ul style="list-style-type: none"> <li>• MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF</li> <li>• MODE 2: All doors are unlocked when shifting the selector lever from any position other than the P to P position</li> <li>• MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF</li> <li>• MODE 4: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position</li> <li>• MODE 5: This item is displayed, but cannot be used</li> <li>• MODE 6: This item is displayed, but cannot be used</li> </ul>
AUTOMATIC LOCK/UNLOCK SET	Automatic door lock/unlock function mode can be selected from the following in this mode <ul style="list-style-type: none"> <li>• Off: Non-operation</li> <li>• Unlock Only: Door unlock operation only</li> <li>• Lock Only: Door lock operation only</li> <li>• Lock/Unlock: Lock and unlock operation</li> </ul>

### DATA MONITOR

#### NOTE:

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

Monitor Item	Contents
REQ SW-DR	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-BD/TR	Indicated [On/Off] condition of back door request switch
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR	Indicated [On/Off] condition of sliding door switch RH
DOOR SW-RL	Indicated [On/Off] condition of sliding door switch LH
DOOR SW-BK	Indicated [On/Off] condition of back door switch
CDL LOCK SW	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW	Indicated [On/Off] condition of lock signal from door key cylinder switch
KEY CYL UN-SW	Indicated [On/Off] condition of unlock signal from door key cylinder switch

### ACTIVE TEST

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Test item	Description
DOOR LOCK	<p>This test is able to check door lock/unlock operation</p> <ul style="list-style-type: none"> <li>• The all door lock actuators are locked when "ALL LOCK" on CONSULT screen is touched</li> <li>• The all door lock actuators are unlocked when "ALL UNLK" on CONSULT screen is touched</li> <li>• The front door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT screen is touched</li> <li>• The front door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT screen is touched</li> <li>• The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT screen is touched</li> </ul>

## REAR WINDOW DEFOGGER

### REAR WINDOW DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

INFOID:000000009978882

#### DATA MONITOR

##### NOTE:

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

Monitor Item	Description
REAR DEF SW	Displays "Press (ON)/other (OFF)" status determined with the rear window defogger switch.
PUSH SW	Indicates [ON/OFF] condition of push switch.

#### ACTIVE TEST

Test Item	Description
REAR DEFOGGER	Rear window defogger operates when ON on CONSULT screen is touched.

## BUZZER

### BUZZER : CONSULT Function (BCM - BUZZER)

INFOID:000000009978883

#### CONSULT APPLICATION ITEMS

Test item	Diagnosis mode	Description
BUZZER	Data Monitor	Displays BCM input data in real time.
	Active Test	Operation of electrical loads can be checked by sending driving signal to them.

#### DATA MONITOR

##### NOTE:

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

Display item [Unit]	Description
PUSH SW [On/Off]	Status of push-button ignition switch judged by BCM.
UNLK SEN-DR [On/Off]	Status of unlock sensor judged by BCM.
VEH SPEED 1 [km/h]	Value of vehicle speed signal received from combination meter with CAN communication line.
TAIL LAMP SW [On/Off]	Status of lighting switch judged by BCM using the combination switch readout function.
FR FOG SW [On/Off]	Status of front fog lamp switch judged by BCM using the combination switch readout function.

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# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Display item [Unit]	Description
DOOR SW-DR [On/Off]	Status of driver side door switch judged by BCM.
CDL LOCK SW [On/Off]	Status of door lock unlock switch judged by BCM.

## ACTIVE TEST

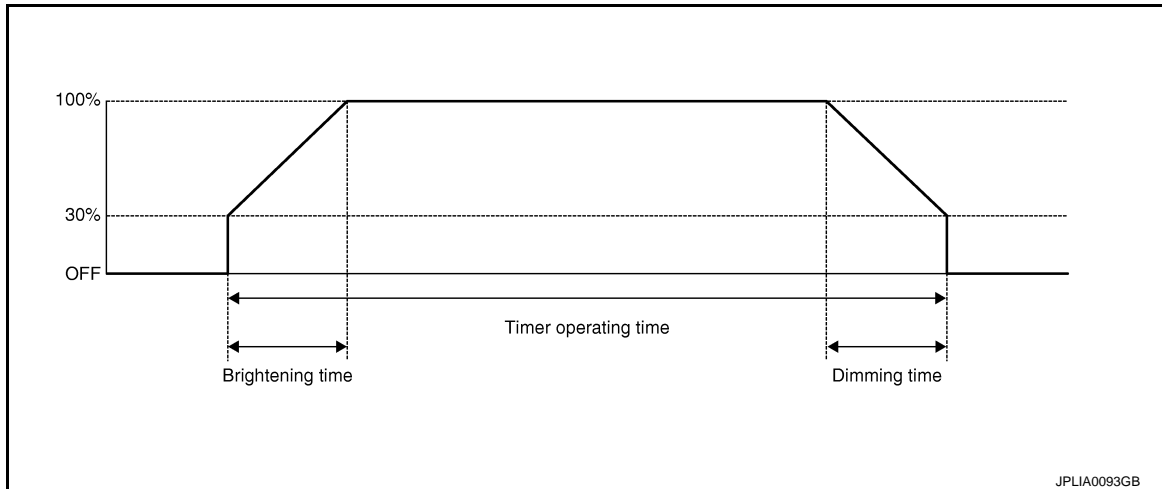
Display item [Unit]	Description
SEAT BELT WARN TEST	The seat belt warning chime operation can be checked by operating the relevant function (On/Off).
ID REGIST WARNING	The ID regist warning chime operation can be checked by operating the relevant function (On/Off).
LIGHT WARN ALM	The light warning chime operation can be checked by operating the relevant function (On/Off).

## INT LAMP

### INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000009978879

## WORK SUPPORT



Service item	Setting item	Setting
ROOM LAMP TIMER SET	MODE 2	7.5 sec.
	MODE 3*	15 sec.
	MODE 4	30 sec.
		Sets the interior room lamp ON time. (Timer operating time)
SET I/L D-UNLCK INTCON	On*	With the interior room lamp timer function
	Off	Without the interior room lamp timer function
ROOM LAMP ON TIME SET	MODE 1	0.5 sec.
	MODE 2*	1 sec.
	MODE 3	2 sec.
	MODE 4	3 sec.
	MODE 5	0 sec.
		Sets the interior room lamp gradual brightening time.
ROOM LAMP OFF TIME SET	MODE 1	0.5 sec.
	MODE 2*	1 sec.
	MODE 3	2 sec.
	MODE 4	3 sec.
	MODE 5	0 sec.
		Sets the interior room lamp gradual dimming time.

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Service item	Setting item	Setting
R LAMP TIMER LOGIC SET	MODE 1*	Interior room lamp timer activates with synchronizing all doors.
	MODE 2	Interior room lamp timer activates with synchronizing the driver door only.

\*: Factory setting

## DATA MONITOR

### NOTE:

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

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from door request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from door request switch (passenger side)
REQ SW-RR [On/Off]	<b>NOTE:</b> The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	The switch status input from push-button ignition switch
UNLK SEN -DR [On/Off]	Driver door unlock status input from unlock sensor
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from sliding door switch RH
DOOR SW- RL [On/Off]	The switch status input from sliding door switch LH
DOOR SW- BK [On/Off]	The switch status input from back door switch
CDL LOCK SW [On/Off]	Lock switch status input from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status input from door lock and unlock switch
TRNK/HAT MNTR [On/Off]	<b>NOTE:</b> The item is indicated, but not monitored
KEY CYL LK-SW [On/Off]	Lock switch status received from door key cylinder switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

## ACTIVE TEST

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Test item	Operation	Description
INT LAMP	On	Outputs the interior room lamp control signal to turn the interior room lamps ON. [Map lamp, personal lamp (when applicable lamps switch is in DOOR position.)]
	Off	Stops the interior room lamp control signal to turn the interior room lamps.
STEP LAMP TEST	On	Outputs the step lamp control signal to turn the step lamps ON.
	Off	Stops the step lamp control signal to turn the step lamps ON.

## HEADLAMP

### HEADLAMP : CONSULT Function (BCM - HEADLAMP) (Xenon Type Headlamp)

INFOID:000000009978875

## WORK SUPPORT

Service item	Setting item	Setting
CUSTOM A/LIGHT SETTING*1	MODE 1*3	Normal
	MODE 2	More sensitive setting than normal setting (Turns ON earlier than normal operation)
	MODE 3	More sensitive setting than MODE 2 (Turns ON earlier than MODE 2)
	MODE 4	Less sensitive setting than normal setting (Turns ON later than normal operation.)
BATTERY SAVER SET	On*3	With the exterior lamp battery saver function
	Off	Without the exterior lamp battery saver function
ILL DELAY SET*1	MODE 1*3	45 sec.
	MODE 2	Without the function
	MODE 3	30 sec.
	MODE 4	60 sec.
	MODE 5	90 sec.
	MODE 6	120 sec.
	MODE 7	150 sec.
	MODE 8	180 sec.
		Sets delay timer function timer operation time. (All doors closed)
AUTO LIGHT LOGIC SET*2	MODE 1*3	With twilight ON custom & with wiper INT, LO and HI
	MODE 2	With twilight ON custom & with wiper LO and HI
	MODE 3	With twilight ON custom & without
	MODE 4	Without twilight ON custom & with wiper INT, LO and HI
	MODE 5	Without twilight ON custom & with wiper LO and HI
	MODE 6	Without twilight ON custom & without

\*1: For models without auto light system, this item is displayed but is not operated.

\*2: For models without auto light system and all models for Canada, this item is displayed but is not operated.

\*3: Factory setting

## DATA MONITOR

### NOTE:

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

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description	A
PUSH SW [On/Off]	The switch status input from push-button ignition switch	B
ENGINE STATE [Stop/Stall/Crank/Run]	The engine status received from ECM with CAN communication	C
VEH SPEED 1 [km/h]	The value of the vehicle speed received from combination meter via CAN communication	D
TURN SIGNAL R [On/Off]	Each switch status that BCM judges from the combination switch reading function	E
TURN SIGNAL L [On/Off]		F
TAIL LAMP SW [On/Off]		G
HI BEAM SW [On/Off]		H
HEAD LAMP SW1 [On/Off]		I
HEAD LAMP SW2 [On/Off]		J
PASSING SW [On/Off]		K
AUTO LIGHT SW*1 [On/Off]		L
FR FOG SW*2 [On/Off]		N
DOOR SW-DR [On/Off]		The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)	P
DOOR SW-RR [On/Off]	The switch status input from sliding door switch RH	BCS
DOOR SW- RL [On/Off]	The switch status input from sliding door switch LH	N
DOOR SW-BK [On/Off]	The switch status input from back door switch	O
OPTICAL SENSOR [On/Off/NG]	<b>NOTE:</b> This item is indicated, but can not monitored	P
OPTI SEN (DTCT)*1 [V]	The value of outside brightness voltage input from the optical sensor	N
OPTI SEN (FILT)*1 [V]	The value of outside brightness voltage filtered by BCM	O

\*1: For models without auto light system, this item is not displayed.

\*2: For models without front fog lamp, this item is displayed but is not monitored.

## ACTIVE TEST

Test item	Operation	Description
TAIL LAMP	On	Transmits the position light request signal to IPDM E/R via CAN communication to turn the tail lamp ON
	Off	Stops the tail lamp request signal transmission

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Test item	Operation	Description
HEAD LAMP	Hi	Transmits the high beam request signal via CAN communication to turn the headlamp (HI)
	Lo	Transmits the low beam request signal via CAN communication to turn the headlamp (LO)
	Off	Stops the high & low beam request signal transmission
FR FOG LAMP*1	On	Transmits the front fog light request signal to IPDM E/R via CAN communication to turn the front fog lamp ON
	Off	Stops the front light request signal transmission
DAYTIME RUNNING LIGHT*2	On	Transmits the daytime running light request signal via CAN communication to IPDM E/R
	Off	Stop the daytime running light request signal transmission
ILL DIM SIGNAL	On	<ul style="list-style-type: none"> <li>Transmits the dimmer signal to combination meter via CAN communication and dims combination meter*3</li> <li>Transmits the dimmer signal to AV control unit and dims display</li> </ul>
	Off	Stops the dimmer signal transmission

\*1: For models without front fog lamp, this item is displayed but is not tested.

\*2: For models without daytime running light system, this item is not displayed.

\*3: Except for CANADA

## HEADLAMP : CONSULT Function (BCM - HEADLAMP) (Halogen Type Headlamp)

INFOID:000000009978876

## WORK SUPPORT

Service item	Setting item	Setting
CUSTOM A/LIGHT SETTING*1	MODE 1*3	Normal
	MODE 2	More sensitive setting than normal setting (Turns ON earlier than normal operation)
	MODE 3	More sensitive setting than MODE 2 (Turns ON earlier than MODE 2)
	MODE 4	Less sensitive setting than normal setting (Turns ON later than normal operation.)
BATTERY SAVER SET	On*3	With the exterior lamp battery saver function
	Off	Without the exterior lamp battery saver function
ILL DELAY SET*1	MODE 1*3	45 sec.
	MODE 2	Without the function
	MODE 3	30 sec.
	MODE 4	60 sec.
	MODE 5	90 sec.
	MODE 6	120 sec.
	MODE 7	150 sec.
	MODE 8	180 sec.
		Sets delay timer function timer operation time. (All doors closed)
AUTO LIGHT LOGIC SET*2	MODE 1*3	With twilight ON custom & with wiper INT, LO and HI
	MODE 2	With twilight ON custom & with wiper LO and HI
	MODE 3	With twilight ON custom & without
	MODE 4	Without twilight ON custom & with wiper INT, LO and HI
	MODE 5	Without twilight ON custom & with wiper LO and HI
	MODE 6	Without twilight ON custom & without

\*1: For models without auto light system, this item is displayed but is not operated.



## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

\*2: For models without auto light system and all models for Canada, this item is displayed but is not operated.

\*3: Factory setting

### DATA MONITOR

#### NOTE:

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

Monitor item [Unit]	Description
PUSH SW [On/Off]	The switch status input from push-button ignition switch
ENGINE STATE [Stop/Stall/Crank/Run]	The engine status received from ECM with CAN communication
VEH SPEED 1 [km/h]	The value of the vehicle speed received from combination meter via CAN communication
TURN SIGNAL R [On/Off]	Each switch status that BCM judges from the combination switch reading function
TURN SIGNAL L [On/Off]	
TAIL LAMP SW [On/Off]	
HI BEAM SW [On/Off]	
HEAD LAMP SW1 [On/Off]	
HEAD LAMP SW2 [On/Off]	
PASSING SW [On/Off]	
AUTO LIGHT SW*1 [On/Off]	
FR FOG SW*2 [On/Off]	
DOOR SW-DR [On/Off]	
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from sliding door switch RH
DOOR SW- RL [On/Off]	The switch status input from sliding door switch LH
DOOR SW-BK [On/Off]	The switch status input from back door switch
OPTICAL SENSOR [On/Off/NG]	<b>NOTE:</b> This item is indicated, but can not monitored
OPTI SEN (DTCT)*1 [V]	The value of outside brightness voltage input from the optical sensor
OPTI SEN (FILT)*1 [V]	The value of outside brightness voltage filtered by BCM

\*1: For models without auto light system, this item is not displayed.

\*2: For models without front fog lamp, this item is displayed but is not monitored.

### ACTIVE TEST

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# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Test item	Operation	Description
TAIL LAMP	On	Transmits the position light request signal to IPDM E/R via CAN communication to turn the tail lamp ON
	Off	Stops the tail lamp request signal transmission
HEAD LAMP	Hi	Transmits the high beam request signal via CAN communication to turn the headlamp (HI)
	Lo	Transmits the low beam request signal via CAN communication to turn the headlamp (LO)
	Off	Stops the high & low beam request signal transmission
FR FOG LAMP*1	On	Transmits the front fog light request signal to IPDM E/R via CAN communication to turn the front fog lamp ON
	Off	Stops the front light request signal transmission
DAYTIME RUNNING LIGHT*2	On	Transmits the daytime running light request signal via CAN communication to IPDM E/R
	Off	Stop the daytime running light request signal transmission
ILL DIM SIGNAL	On	<ul style="list-style-type: none"> <li>Transmits the dimmer signal to combination meter via CAN communication and dims combination meter*3</li> <li>Transmits the dimmer signal to AV control unit and dims display</li> </ul>
	Off	Stops the dimmer signal transmission

\*1: For models without front fog lamp, this item is displayed but is not tested.

\*2: For models without daytime running light system, this item is not displayed.

\*3: Except for CANADA

## WIPER

### WIPER : CONSULT Function (BCM - WIPER)

INFOID:000000009978881

## WORK SUPPORT

Service item	Setting item	Description
WIPER SPEED SETTING	On	With vehicle speed (Front wiper intermittent time linked with the vehicle speed and wiper intermittent dial position)
	Off*	Without vehicle speed (Front wiper intermittent time linked with the wiper intermittent dial position)

\*: Factory setting

## DATA MONITOR

### NOTE:

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

Monitor Item [Unit]	Description
PUSH SW [Off/On]	The switch status input from push-button ignition switch.
VEH SPEED 1 [km/h]	Displays the value of the vehicle speed signal received from combination meter via CAN communication.

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
FR WIPER HI [Off/On]	Status of each switch judged by BCM using the combination switch reading function
FR WIPER LOW [Off/On]	
FR WASHER SW [Off/On]	
FR WIPER INT [Off/On]	
FR WIPER STOP [Off/On]	Displays the status of the front wiper stop position signal received from IPDM E/R via CAN communication.
INT VOLUME [1 - 7]	Status of each switch judged by BCM using the combination switch reading function
RR WIPER ON [Off/On]	Status of each switch judged by BCM using the combination switch reading function
RR WIPER INT [Off/On]	
RR WASHER SW [Off/On]	
RR WIPER STOP [Off/On]	
	Rear wiper motor (stop position) status input from the rear wiper motor

## ACTIVE TEST

Test item	Operation	Description
FR WIPER	Hi	Transmits the front wiper request signal (HI) to IPDM E/R via CAN communication to operate the front wiper HI operation.
	Lo	Transmits the front wiper request signal (LO) to IPDM E/R via CAN communication to operate the front wiper LO operation.
	INT	Transmits the front wiper request signal (INT) to IPDM E/R via CAN communication to operate the front wiper INT operation.
	Off	Stops transmitting the front wiper request signal to stop the front wiper operation.
RR WIPER	On	Output the voltage to operate the rear wiper motor.
	Off	Stops the voltage to stop the rear wiper motor.

## FLASHER

### FLASHER : CONSULT Function (BCM - FLASHER) (Xenon Type Headlamp)

INFOID:000000009978877

## WORK SUPPORT

Service item	Setting item	Setting	
HAZARD ANSWER BACK	Lock Only	With locking only	Sets the hazard warning lamp answer back function when the door is lock/unlock with the request switch or the key fob.
	Unlk Only	With unlocking only	
	Lock&Unlk*	With locking/unlocking	
	Off	Without the function	

\*: Factory setting

## DATA MONITOR

### NOTE:

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

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from the request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from the request switch (passenger side)
PUSH SW [On/Off]	The switch status input from the push-button ignition switch
TURN SIGNAL R [On/Off]	Each switch status that BCM detects from the combination switch reading function
TURN SIGNAL L [On/Off]	
HAZARD SW [On/Off]	The switch status input from the hazard switch
RKE-LOCK [On/Off]	Lock signal status received from the remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from the remote keyless entry receiver
RKE-PANIC [On/Off]	Panic alarm signal status received from the remote keyless entry receiver

## ACTIVE TEST

Test item	Operation	Description
FLASHER	RH	Outputs the voltage to turn on the right side turn signal lamps.
	LH	Outputs the voltage to turn on the left side turn signal lamps.
	Off	Stops the voltage to turn the turn signal lamps OFF.

## FLASHER : CONSULT Function (BCM - FLASHER) (Halagen Type Headlamp)

INFOID:000000009978878

## WORK SUPPORT

Service item	Setting item	Setting
HAZARD ANSWER BACK	Lock Only	With locking only
	Unlk Only	With unlocking only
	Lock&Unlk*	With locking/unlocking
	Off	Without the function

Sets the hazard warning lamp answer back function when the door is lock/unlock with the request switch or the key fob.

\*: Factory setting

## DATA MONITOR

### NOTE:

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

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from the request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from the request switch (passenger side)
PUSH SW [On/Off]	The switch status input from the push-button ignition switch

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
TURN SIGNAL R [On/Off]	Each switch status that BCM detects from the combination switch reading function
TURN SIGNAL L [On/Off]	
HAZARD SW [On/Off]	The switch status input from the hazard switch
RKE-LOCK [On/Off]	Lock signal status received from the remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from the remote keyless entry receiver
RKE-PANIC [On/Off]	Panic alarm signal status received from the remote keyless entry receiver

## ACTIVE TEST

Test item	Operation	Description
FLASHER	RH	Outputs the voltage to turn on the right side turn signal lamps.
	LH	Outputs the voltage to blink turn on left side turn signal lamps.
	Off	Stops the voltage to turn the turn signal lamps OFF.

## AIR CONDITIONER

### AIR CONDITIONER : CONSULT Function (BCM - AIR CONDITIONER) (Auto A/C)

INFOID:000000009978852

#### DATA MONITOR

##### NOTE:

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

##### Display Item List

Monitor Item [Unit]	Contents
FAN ON SIG [On/Off]	Displays the status of blower fan ON signal received from A/C auto amp.
AIR COND SW [On/Off]	Displays the status of A/C ON signal received from A/C auto amp.

### AIR CONDITIONER : CONSULT Function (BCM - AIR CONDITIONER) (Manual A/C)

INFOID:000000009978853

#### DATA MONITOR

##### NOTE:

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

##### Display Item List

Monitor Item [Unit]	Contents
FAN ON SIG [On/Off]	Displays the status of blower fan ON signal received from A/C amp.
AIR COND SW [On/Off]	Displays the status of A/C ON signal received from A/C amp.

## INTELLIGENT KEY

### INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:000000009978858

## WORK SUPPORT

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## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch mode can be changed to operation in this mode <ul style="list-style-type: none"> <li>• On: Operate</li> <li>• Off: Non-operation</li> </ul>
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this mode <ul style="list-style-type: none"> <li>• On: Operate</li> <li>• Off: Non-operation</li> </ul>
TRUNK/GLASS HATCH OPEN	<b>NOTE:</b> This item is displayed, but cannot be used
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key button can be selected from the following with this mode <ul style="list-style-type: none"> <li>• MODE 1: 0.5 sec</li> <li>• MODE 2: Non-operation</li> <li>• MODE 3: 1.5 sec</li> </ul>
TRUNK OPEN DELAY	<b>NOTE:</b> This item is displayed, but cannot be used
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operation with this mode <ul style="list-style-type: none"> <li>• On: Operate</li> <li>• Off: Non-operation</li> </ul>
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operation with this mode <ul style="list-style-type: none"> <li>• On: Operate</li> <li>• Off: Non-operation</li> </ul>
HAZARD ANSWER BACK	Hazard reminder function mode by door request switch and Intelligent Key button can be selected from the following with this mode <ul style="list-style-type: none"> <li>• Lock Only: Door lock operation only</li> <li>• Unlock Only: Door unlock operation only</li> <li>• Lock/Unlock: Lock and unlock operation</li> <li>• Off: Non-operation</li> </ul>
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch can be selected from the following with this mode <ul style="list-style-type: none"> <li>• Horn Chirp: Sound horn</li> <li>• Buzzer: Sound Intelligent Key warning buzzer</li> <li>• Off: Non-operation</li> </ul>
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operation with this mode <ul style="list-style-type: none"> <li>• On: Operate</li> <li>• Off: Non-operation</li> </ul>
SHORT CRANKING OUTPUT	Starter motor can operate during the times below <ul style="list-style-type: none"> <li>• 70 msec</li> <li>• 100 msec</li> <li>• 200 msec</li> </ul>
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode
AUTO LOCK SET	Auto door lock operation time can be changed in this mode <ul style="list-style-type: none"> <li>• MODE 1: OFF</li> <li>• MODE 2: 30 sec</li> <li>• MODE 3: 1 minute</li> <li>• MODE 4: 2 minutes</li> <li>• MODE 5: 3 minutes</li> <li>• MODE 6: 4 minutes</li> <li>• MODE 7: 5 minutes</li> </ul>

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item	Description
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be selected from the following with this mode <ul style="list-style-type: none"> <li>• On: Operate</li> <li>• Off: Non-operation</li> </ul>
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode <ul style="list-style-type: none"> <li>• MODE 1: 3 sec</li> <li>• MODE 2: Non-operation</li> <li>• MODE 3: 5 sec</li> </ul>

## SELF-DIAG RESULT

Refer to [BCS-63. "DTC Index"](#).

## DATA MONITOR

### NOTE:

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

Monitor Item	Condition
REQ SW -DR	Indicates [On/Off] condition of door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
CLUTCH SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
BRAKE SW 1	Indicates [On/Off]* condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
DETE/CANCL SW	Indicates [On/Off] condition of P position
SFT PN/N SW	Indicates [On/Off] condition of P or N position
S/L -LOCK	<b>NOTE:</b> This item is displayed, but cannot be monitored
S/L -UNLOCK	<b>NOTE:</b> This item is displayed, but cannot be monitored
S/L RELAY -F/B	<b>NOTE:</b> This item is displayed, but cannot be monitored
UNLK SEN -DR	Indicates [On/Off] condition of driver door UNLOCK status
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
DETE SW -IPDM	Indicates [On/Off] condition of P position
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
SFT P -MET	Indicates [On/Off] condition of P position
SFT N -MET	Indicates [On/Off] condition of N position
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states
S/L LOCK-IPDM	<b>NOTE:</b> This item is displayed, but cannot be monitored
S/L UNLK-IPDM	<b>NOTE:</b> This item is displayed, but cannot be monitored
S/L RELAY-REQ	<b>NOTE:</b> This item is displayed, but cannot be monitored
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [km/h]
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [km/h]
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of unlock sensor

## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

Monitor Item	Condition
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger side door status
ID OK FLAG	Indicates [Set/Reset] condition of key ID
PRMT ENG STRT	Indicates [Set/Reset] condition of engine start possibility
PRMT RKE STRT	<b>NOTE:</b> This item is displayed, but cannot be monitored
TRNK/HAT MNTR	<b>NOTE:</b> This item is displayed, but cannot be monitored
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-TR/BD	<b>NOTE:</b> This item is displayed, but cannot be monitored
RKE-PANIC	Indicates [On/Off] condition of PANIC button of Intelligent Key
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing
RKE OPE COUN2	<b>NOTE:</b> This item is displayed, but cannot be monitored

\*: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

### ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation <ul style="list-style-type: none"> <li>• On: Operate</li> <li>• Off: Non-operation</li> </ul>
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation <ul style="list-style-type: none"> <li>• On: Operate</li> <li>• Off: Non-operation</li> </ul>
INSIDE BUZZER	This test is able to check warning chime in combination meter operation <ul style="list-style-type: none"> <li>• Take Out: Take away warning chime sounds when CONSULT screen is touched</li> <li>• Key: Key warning chime sounds when CONSULT screen is touched</li> <li>• Knob: OFF position warning chime sounds when CONSULT screen is touched</li> <li>• Off: Non-operation</li> </ul>
INDICATOR	This test is able to check warning lamp operation <ul style="list-style-type: none"> <li>• KEY ON: "KEY" Warning lamp illuminates when CONSULT screen is touched</li> <li>• KEY IND: "KEY" Warning lamp blinks when CONSULT screen is touched</li> <li>• Off: Non-operation</li> </ul>
INT LAMP	This test is able to check interior room lamp operation <ul style="list-style-type: none"> <li>• On: Operate</li> <li>• Off: Non-operation</li> </ul>
LCD	This test is able to check meter display information <ul style="list-style-type: none"> <li>• Engine start information displays when "BP N" on CONSULT screen is touched</li> <li>• Engine start information displays when "BP I" on CONSULT screen is touched</li> <li>• Key ID warning displays when "ID NG" on CONSULT screen is touched</li> <li>• ROTAT: This item is displayed, but cannot be used.</li> <li>• P position warning displays when "SFT P" on CONSULT screen is touched</li> <li>• INSRT: This item is displayed, but cannot be monitored</li> <li>• BATT: This item is displayed, but cannot be monitored</li> <li>• Take away through window warning displays when "NO KY" on CONSULT screen is touched</li> <li>• Take away warning display when "OUTKEY" on CONSULT screen is touched</li> <li>• OFF position warning display when "LK WN" on CONSULT screen is touched</li> </ul>
FLASHER	This test is able to check hazard warning lamp operation <ul style="list-style-type: none"> <li>• LH: LH side hazard warning lamps operate</li> <li>• RH: RH side hazard warning lamps operate</li> <li>• Off: Non-operation</li> </ul>



# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Test item	Description
P RANGE	This test is able to check CVT shift selector power supply <ul style="list-style-type: none"> <li>On: Operate</li> <li>Off: Non-operation</li> </ul>
ENGINE SW ILLUMI	This test is able to check push-button ignition switch illumination operation <ul style="list-style-type: none"> <li>On: Operate</li> <li>Off: Non-operation</li> </ul>
LOCK INDICATOR	This test is able to check LOCK indicator (push-button ignition switch) operation <ul style="list-style-type: none"> <li>On: Operate</li> <li>Off: Non-operation</li> </ul>
ACC INDICATOR	This test is able to check ACC indicator (push-button ignition switch) operation <ul style="list-style-type: none"> <li>On: Operate</li> <li>Off: Non-operation</li> </ul>
IGNITION ON IND	This test is able to check ON indicator (push-button ignition switch) operation <ul style="list-style-type: none"> <li>On: Operate</li> <li>Off: Non-operation</li> </ul>
HORN	This test is able to check horn operation <ul style="list-style-type: none"> <li>On: Operate</li> <li>Off: Non-operation</li> </ul>
TRUNK/BACK DOOR	<b>NOTE:</b> This item is displayed, but cannot be used
POWER SLIDE DOOR	This test is able to check automatic sliding door operation <ul style="list-style-type: none"> <li>RR PSD ON: Auto open/close operate</li> <li>RL PSD ON: Auto open/close operate</li> </ul>

## COMB SW

### COMB SW : CONSULT Function (BCM - COMB SW)

INFOID:000000009651701

#### DATA MONITOR

##### NOTE:

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

Monitor item [UNIT]	Description
FR WIPER HI [Off/On]	Displays the status of the FR WIPER HI switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER LOW [Off/On]	Displays the status of the FR WIPER LOW switch in combination switch judged by BCM with the combination switch reading function.
FR WASHER SW [Off/On]	Displays the status of the FR WASHER switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER INT [Off/On]	Displays the status of the FR WIPER INT switch in combination switch judged by BCM with the combination switch reading function.
INT VOLUME [1 - 7]	Displays the status of wiper intermittent dial position judged by BCM with the combination switch reading function.
RR WIPER ON [Off/On]	Displays the status of the RR WIPER ON switch in combination switch judged by BCM with the combination switch reading function.
RR WIPER INT [Off/On]	Displays the status of the RR WIPER INT switch in combination switch judged by BCM with the combination switch reading function.
RR WASHER SW [Off/On]	Displays the status of the RR WASHER switch in combination switch judged by BCM with the combination switch reading function.
TURN SIGNAL R [Off/On]	Displays the status of the TURN RH switch in combination switch judged by BCM with the combination switch reading function.
TURN SIGNAL L [Off/On]	Displays the status of the TURN LH switch in combination switch judged by BCM with the combination switch reading function.

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item [UNIT]	Description
TAIL LAMP SW [Off/On]	Displays the status of the TAIL LAMP switch in combination switch judged by BCM with the combination switch reading function.
HI BEAM SW [Off/On]	Displays the status of the HI BEAM switch in combination switch judged by BCM with the combination switch reading function.
HEAD LAMP SW 1 [Off/On]	Displays the status of the HEADLAMP 1 switch in combination switch judged by BCM with the combination switch reading function.
HEAD LAMP SW 2 [Off/On]	Displays the status of the HEADLAMP 2 switch in combination switch judged by BCM with the combination switch reading function.
PASSING SW [Off/On]	Displays the status of the PASSING switch in combination switch judged by BCM with the combination switch reading function.
AUTO LIGHT SW [Off/On]	Displays the status of the AUTO LIGHT switch in combination switch judged by BCM with the combination switch reading function.
FR FOG SW [Off/On]	Displays the status of the FR FOG switch in combination switch judged by BCM with the combination switch reading function.

## BCM

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

INFOID:000000009651702

#### WORK SUPPORT

Item	Description
RESET SETTING VALUE	Return a value set with Work Support of each system to a default value in factory shipment.

## IMMU

### IMMU : CONSULT Function (BCM - IMMU)

INFOID:000000009978872

#### WORK SUPPORT

Service item	Description
CONFIRM DONGLE ID	It is possible to check that dongle unit is applied to the vehicle.

## DATA MONITOR

### NOTE:

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

Monitor item	Content
CONFIRM ID ALL	Indicates [YET] at all time. Switches to [DONE] when a registered Intelligent Key backside is contacted to push-button ignition switch.
CONFIRM ID4	
CONFIRM ID3	
CONFIRM ID2	
CONFIRM ID1	
NOT REGISTERED	Indicates [ID OK] when key ID that is registered is received or is not yet received. Indicates [ID NG] when key ID that is not registered is received.
TP 4	Indicates the number of IDs that are registered.
TP 3	
TP 2	
TP 1	
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.

## ACTIVE TEST

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Test item	Description
THEFT IND	This test is able to check security indicator lamp operation. Security indicator lamp is turned on when "ON" on CONSULT screen is touched.

## BATTERY SAVER

### BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000009978880

## WORK SUPPORT

Service item	Setting item	Setting
ROOM LAMP TIMER SET	MODE 1	30 min.
	MODE 2	60 min.
	MODE 3	15 min.
<p>Sets the interior room lamp battery saver timer operating time. <b>NOTE:</b> The factor setting is 10 minutes. The setting cannot be returned to the factory setting, when the setting is changed once.</p>		
BATTERY SAVER SET	On*	With the exterior lamp battery saver function
	Off	Without the exterior lamp battery saver function

\*:Factory setting

## DATA MONITOR

### NOTE:

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

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from door request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from door request switch (passenger side)
REQ SW-RR [On/Off]	<p><b>NOTE:</b> The item is indicated, but not monitored.</p>
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	The switch status input from push-button ignition switch
UNLK SEN -DR [On/Off]	Driver door unlock status input from unlock sensor
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from sliding door switch RH
DOOR SW- RL [On/Off]	The switch status input from sliding door switch LH
DOOR SW- BK [On/Off]	The switch status input from back door switch
CDL LOCK SW [On/Off]	Lock switch status input from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status input from door lock and unlock switch

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
TRNK/HAT MNTR [On/Off]	<b>NOTE:</b> The item is indicated, but not monitored
KEY CYL LK-SW [On/Off]	Lock switch status received from door key cylinder switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

## ACTIVE TEST

Test item	Operation	Description
BATTERY SAVER	Off	Cuts the interior room lamp power supply to turn interior room lamps OFF.
	On	Outputs the interior room lamp power supply to turn interior room lamps ON.*

\*: Each lamp switch is in ON position.

## TRUNK

### TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:00000000997866

## DATA MONITOR

### NOTE:

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

Monitor Item	Contents
PUSH SW	Indicates [On/Off] condition of push switch
UNLK SEN -DR	Indicates [On/Off] condition of unlock sensor
VEH SPEED 1	Indicates [km/h] condition of vehicle speed signal from combination meter
TR/BD OPEN SW	Indicates [On/Off] condition of back door opener switch
TRNK/HAT MNTR	<b>NOTE:</b> This item is displayed, but cannot be monitored
RKE-TR/BD	<b>NOTE:</b> This item is displayed, but cannot be monitored

## THEFT ALM

### THEFT ALM : CONSULT Function (BCM - THEFT)

INFOID:000000009978870

## WORK SUPPORT

Service Item	Description
SECURITY ALARM SET	This mode is able to confirm and change security alarm ON-OFF setting.
THEFT ALM TRG	The switch which triggered vehicle security alarm is recorded. This mode is able to confirm and erase the record of vehicle security alarm. The trigger data can be erased by touching "CLEAR" on CONSULT screen.

## DATA MONITOR

### NOTE:

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

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitored Item	Description
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW -RR	<b>NOTE:</b> This is displayed even when it is not equipped.
REQ SW -RL	<b>NOTE:</b> This is displayed even when it is not equipped.
REQ SW -BD/TR	Indicates [ON/OFF] condition of back door request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
DOOR SW-BK	Indicates [ON/OFF] condition of back door switch.
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/unlock switch.
KEY CYL LK-SW	Indicates [ON/OFF] condition of lock signal from door key cylinder.
KEY CYL UN-SW	Indicates [ON/OFF] condition of unlock signal from door key cylinder.
TR/BD OPEN SW	Indicates [ON/OFF] condition of back door opener switch.
TRNK/HAT MNTR	<b>NOTE:</b> This is displayed even when it is not equipped.
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
RKE-TR/BD	<b>NOTE:</b> This is displayed even when it is not equipped.

## ACTIVE TEST

Test Item	Description
THEFT IND	This test is able to check security indicator lamp operation. Security indicator lamp is turned on when "ON" on CONSULT screen is touched.
VEHICLE SECURITY HORN	This test is able to check horns operation. Horns are activated for 0.5 seconds after "ON" on CONSULT screen is touched.
HEADLAMP(HI)	This test is able to check headlamp operation. Headlamps are activated for 0.5 seconds after "ON" on CONSULT screen is touched.
FLASHER	This test is able to check hazard warning lamp operation. Hazard warning lamps are activated after "ON" on CONSULT screen is touched.

## RETAINED PWR

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR) (Front Window Anti-pinch)

INFOID:000000009978873

## DATA MONITOR

### NOTE:

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

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item	Description
DOOR SW-DR	Indicates [ON/OFF] condition of driver side door switch.
DOOR SW-AS	Indicates [ON/OFF] condition of passenger side door switch.

## RETAINED PWR : CONSULT Function (BCM - RETAINED PWR) (Driver Side Window Anti-pinch)

INFOID:000000009978874

### DATA MONITOR

#### NOTE:

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

Monitor Item	Description
DOOR SW-DR	Indicates [ON/OFF] condition of driver side door switch.
DOOR SW-AS	Indicates [ON/OFF] condition of passenger side door switch.

## SIGNAL BUFFER

## SIGNAL BUFFER : CONSULT Function (BCM - SIGNAL BUFFER)

INFOID:000000009651708

### DATA MONITOR

#### NOTE:

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

Monitor item [UNIT]	Description
PUSH SW [Off/On]	Displays the status of the push-button ignition switch (push switch) judged by BCM.

## ACTIVE TEST

Test item	Operation	Description
OIL PRESSURE SW	Off	OFF
	On	BCM transmits the oil pressure switch signal to the combination meter via CAN communication, which illuminates the oil pressure warning lamp in the combination meter.

## AIR PRESSURE MONITOR

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

INFOID:000000009978846

### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Self Diagnostic Result	Retrieve DTC from ECU and display diagnostic items.
Data Monitor	Monitor the input/output signal of the control unit in real time.
Active Test	Send the drive signal from CONSULT to the actuator. The operation check can be performed.
Work Support	This mode enables a technician to adjust some devices faster and more accurately.

### SELF DIAGNOSTIC RESULT

Refer to [BCS-63, "DTC Index"](#).

### DATA MONITOR MODE

#### NOTE:

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

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

Monitor item (Unit)	Remarks
AIR PRESS FL (kPa kg/cm2 or Psi)	Tire pressure
AIR PRESS FR (kPa, kg/cm2 or Psi)	
AIR PRESS RR (kPa, kg/cm2 or Psi)	
AIR PRESS RL (kPa, kg/cm2 or Psi)	
ID REGST FL1 (Yet, Done)	Registration ID
ID REGST FR1 (Yet, Done)	
ID REGST RR1 (Yet, Done)	
ID REGST RL1 (Yet, Done)	
WARNING LAMP (On/Off)	Low tire pressure warning lamp
BUZZER (On/Off)	<b>NOTE:</b> This item is displayed, but cannot be use this item.

## ACTIVE TEST MODE

### NOTE:

After completing the work below, perform an active test.

1. Check ID registration state and perform self-diagnosis.
2. Erase the self-diagnosis result history.

Item	Description
WARNING LAMP	Low tire pressure warning lamp can be turned ON arbitrarily.
ID REGIST WARNING	<b>NOTE:</b> Displayed but not used in TPMS.
RUN FLAT TIRE W/L	<b>NOTE:</b> Displayed but not used in TPMS.
RUN FLAT/T WARN BUZZER	<b>NOTE:</b> Displayed but not used in TPMS.
FLASHER	Turn signal lamps can be turned ON arbitrarily.
HORN	This test is able to check to check that the horn sounds.

## WORK SUPPORT

Item	Description
ID READ	Registered tire pressure sensor ID can be displayed.
ID REGIST	Tire pressure sensor ID can be registered.

# BCM

< ECU DIAGNOSIS INFORMATION >

## ECU DIAGNOSIS INFORMATION

### BCM

#### Reference Value

INFOID:000000009651710

#### VALUES ON THE DIAGNOSIS TOOL

**NOTE:**

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

CONSULT MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT	Off
	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
	Rear wiper is not in STOP position	On
TURN SIGNAL R	Other than turn signal switch RH	Off
	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
	Lighting switch AUTO	On



# BCM

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
FR FOG SW	Front fog lamp switch OFF	Off	A
	Front fog lamp switch ON	On	
DOOR SW-DR	Driver door closed	Off	B
	Driver door opened	On	
DOOR SW-AS	Passenger door closed	Off	C
	Passenger door opened	On	
DOOR SW-RR	Sliding door RH closed	Off	D
	Sliding door RH opened	On	
DOOR SW-RL	Sliding door LH closed	Off	E
	Sliding door LH opened	On	
DOOR SW-BK	Back door closed	Off	F
	Back door opened	On	
CDL LOCK SW	Other than power door lock switch LOCK	Off	G
	Power door lock switch LOCK	On	
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off	H
	Power door lock switch UNLOCK	On	
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off	I
	Driver door key cylinder LOCK position	On	
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off	J
	Driver door key cylinder UNLOCK position	On	
HAZARD SW	Hazard switch is OFF	Off	K
	Hazard switch is ON	On	
REAR DEF SW	Rear window defogger switch OFF	Off	L
	Rear window defogger switch ON	On	
TR/BD OPEN SW	Back door opener switch OFF	Off	
	While the back door opener switch is turned ON	On	
TRNK/HAT MNTR	<b>NOTE:</b> The item is indicated, but not monitored.	Off	
FAN ON SIG	Blower fan OFF	Off	
	Blower fan ON	On	
AIR COND SW	<ul style="list-style-type: none"> <li>• Air conditioner OFF (A/C switch indicator OFF) (Automatic A/C)</li> <li>• A/C switch OFF (Manual A/C)</li> </ul>	Off	BCS
	<ul style="list-style-type: none"> <li>• Air conditioner ON (A/C switch indicator ON) (Automatic A/C)</li> <li>• A/C switch ON (Manual A/C)</li> </ul>	On	
RKE-LOCK	LOCK button of the key is not pressed	Off	N
	LOCK button of the key is pressed	On	
RKE-UNLOCK	UNLOCK button of the key is not pressed	Off	O
	UNLOCK button of the key is pressed	On	
RKE-TR/BD	<b>NOTE:</b> The item is indicated, but not monitored.	Off	P
RKE-PANIC	PANIC button of the key is not pressed	Off	
	PANIC button of the key is pressed	On	
RKE-MODE CHG	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off	
	LOCK/UNLOCK button of the key is pressed and held simultaneously	On	

# BCM

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
SHOCK SENSOR	Air bag signal (NORMAL) is detected.	NOMAL
	Air bag signal (AIR BAG OPEN) is detected.	On
	Air bag signal is not detected.	Off
OPTI SEN (DTCT)	Bright outside of the vehicle	Close to 5 V
	Dark outside of the vehicle	Close to 0 V
OPTI SEN (FILT)	Bright outside of the vehicle (Lighting switch AUTO)	Close to 5 V
	Dark outside of the vehicle (Lighting switch AUTO)	Close to 1.50 V
OPTICAL SENSOR	<b>NOTE:</b> The item is indicated, but not monitored.	Off
RAIN SENSOR	<b>NOTE:</b> The item is indicated, but not monitored.	Off
REQ SW -DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
	Passenger door request switch is pressed	On
REQ SW -RR	<b>NOTE:</b> The item is indicated, but not monitored.	Off
REQ SW -RL	<b>NOTE:</b> The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed	Off
	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
CLUCH SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off
BRAKE SW 1	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
BRAKE SW 2	The brake pedal is depressed when No. 7 fuse is blown	Off
	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
DETE/CANCL SW	Selector lever in P position	Off
	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
S/L -LOCK	<b>NOTE:</b> The item is indicated, but not monitored.	Off
S/L -UNLOCK	<b>NOTE:</b> The item is indicated, but not monitored.	Off
S/L RELAY-F/B	<b>NOTE:</b> The item is indicated, but not monitored.	Off
UNLK SEN -DR	Driver door is locked	Off
	Driver door is unlocked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On

# BCM

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
DETE SW -IPDM	Selector lever in any position other than P	Off	A
	Selector lever in P position	On	
SFT PN -IPDM	Selector lever in any position other than P and N	Off	B
	Selector lever in P or N position	On	
SFT P -MET	Selector lever in any position other than P	Off	C
	Selector lever in P position	On	
SFT N -MET	Selector lever in any position other than N	Off	D
	Selector lever in N position	On	
ENGINE STATE	Engine stopped	Stop	E
	While the engine stalls	Stall	
	At engine cranking	Crank	
	Engine running	Run	
S/L LOCK-IPDM	<b>NOTE:</b> The item is indicated, but not monitored.	Off	F
S/L UNLK-IPDM	<b>NOTE:</b> The item is indicated, but not monitored.	Off	G
S/L RELAY-REQ	<b>NOTE:</b> The item is indicated, but not monitored.	Off	H
VEH SPEED 1	While driving	Equivalent to speedometer reading	I
VEH SPEED 2	While driving	Equivalent to speedometer reading	J
DOOR STAT-DR	Driver door is locked	LOCK	K
	Wait with selective UNLOCK operation (60 seconds)	READY	
	Driver door is unlocked	UNLOCK	
DOOR STAT-AS	Passenger door is locked	LOCK	L
	Wait with selective UNLOCK operation (60 seconds)	READY	
	Passenger door is unlocked	UNLOCK	
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Shift position is in the P position)	Reset	
	Ignition switch ON	Set	
PRMT ENG STRT	The engine start is prohibited	Reset	
	The engine start is permitted	Set	
PRMT RKE STRT	<b>NOTE:</b> The item is indicated, but not monitored.	Reset	
RKE OPE COUN1	During the operation of the key	Operation frequency of the key	
RKE OPE COUN2	<b>NOTE:</b> The item is indicated, but not monitored.	—	
CONFIRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet	
	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done	
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet	
	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done	

BCS

# BCM

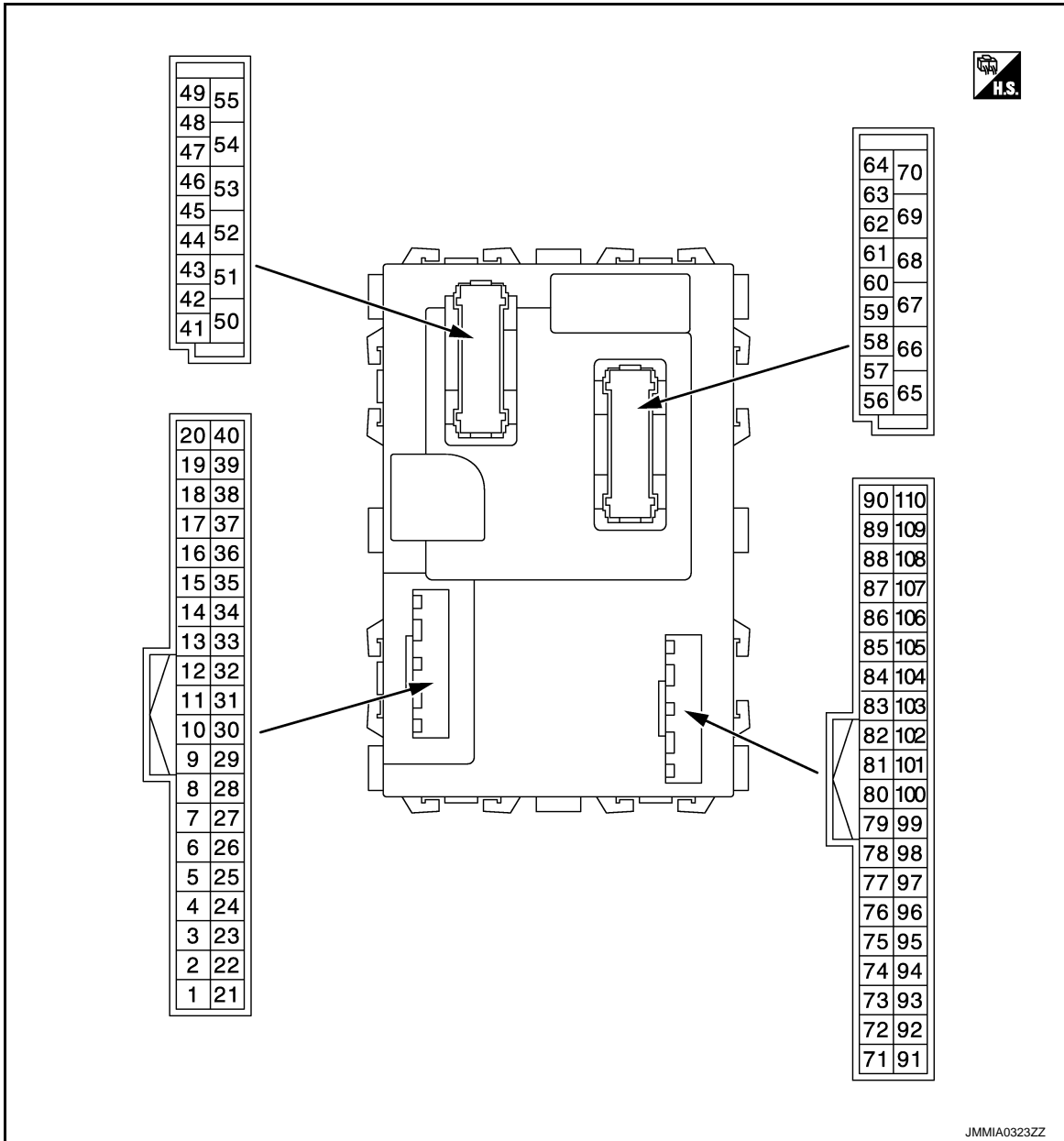
## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
NOT REGISTERED	BCM detects registered key ID, or BCM does not detect key ID.	ID OK
	BCM detects non-registration key ID.	ID NG
TP 4	The ID of fourth key is not registered to BCM	Yet
	The ID of fourth key is registered to BCM	Done
TP 3	The ID of third key is not registered to BCM	Yet
	The ID of third key is registered to BCM	Done
TP 2	The ID of second key is not registered to BCM	Yet
	The ID of second key is registered to BCM	Done
TP 1	The ID of first key is not registered to BCM	Yet
	The ID of first key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

# BCM

< ECU DIAGNOSIS INFORMATION >

## TERMINAL LAYOUT



## PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Value (Approx.)				
+	-	Signal name	Input/ Output						
1 (W)	Ground	Rear window defogger relay control	Input	Rear window defogger	<table border="1"> <tr> <td>OFF</td> <td>9 - 16 V</td> </tr> <tr> <td>ON</td> <td>0 - 0.6 V</td> </tr> </table>	OFF	9 - 16 V	ON	0 - 0.6 V
OFF	9 - 16 V								
ON	0 - 0.6 V								

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L

BCS

N  
O  
P

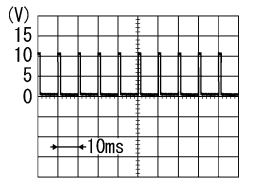
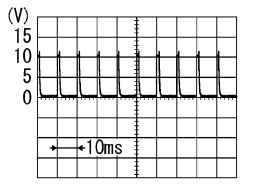
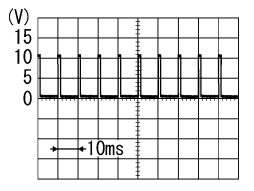
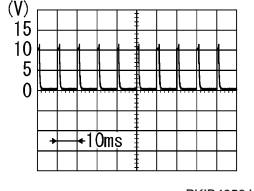
# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
2 (LG)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Turn signal switch RH	
					Lighting switch HI	
					Lighting switch 1ST	
					Lighting switch 2ND	
3 (Y)	Ground	Combination switch INPUT 4	Input	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Turn signal switch LH	
					Lighting switch PASS	
					Lighting switch 2ND	
					Front fog lamp switch ON	
4 (O)	Ground	Combination switch INPUT 3	Input	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Front wiper switch LO	
					Front wiper switch MIST	
					Front wiper switch INT	
					Lighting switch AUTO	

# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)		
+	-	Signal name	Input/ Output				
5 (G)	Ground	Combination switch INPUT 2	Input	Combination switch	All switches OFF (Wiper volume dial 4)	0 V	
					Front washer switch ON (Wiper volume dial 4)		
					Rear washer switch ON (Wiper volume dial 4)		
					Any of the condition below with all switches OFF <ul style="list-style-type: none"> <li>• Wiper volume dial 1</li> <li>• Wiper volume dial 5</li> <li>• Wiper volume dial 6</li> </ul>		1.0 V
					Rear wiper switch ON (Wiper volume dial 4)		0.8 V
6 (L)	Ground	Combination switch INPUT 1	Input	Combination switch	All switches OFF (Wiper volume dial 4)	0 V	
					Front wiper switch HI (Wiper volume dial 4)		
					Rear wiper switch INT (Wiper volume dial 4)		
					Wiper volume dial 3 (All switches OFF)		1.0 V
			Any of the condition below with all switches OFF <ul style="list-style-type: none"> <li>• Wiper volume dial 6</li> <li>• Wiper volume dial 7</li> </ul>		0.8 V		

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
N  
O  
P

BCS

# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
7*1 (W)	Ground	Door key cylinder switch UNLOCK	Input	Door key cylinder switch	NEUTRAL position  PKIB4960J 7.0 - 8.0 V
					UNLOCK position 0 V
8 (GR)*2 (Y)*1	Ground	Power window switch communication (with automatic sliding door system)	Input/ Output	Ignition switch ON  PKIA7023E 9.0 - 10 V	
		Door key cylinder switch LOCK (without automatic sliding door system)	Input	Door key cylinder switch	NEUTRAL position  PKIB4960J 7.0 - 8.0 V
				LOCK position 0 V	
9 (V)	Ground	Stop lamp switch 1	Input	Stop lamp switch	OFF (Brake pedal is not depressed) 0 V
					ON (Brake pedal is depressed) 9 - 16 V
12*1 (GR)	Ground	Door lock and unlock switch LOCK	Input	Door lock and unlock switch	NEUTRAL position  JPMIA0012GB 1.0 - 1.5 V
					LOCK position 0 V
13*1 (BR)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and unlock switch	NEUTRAL position  JPMIA0012GB 1.0 - 1.5 V
					UNLOCK position 0 V



# BCM

## < ECU DIAGNOSIS INFORMATION >

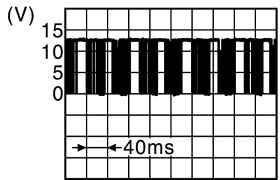
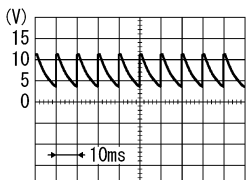
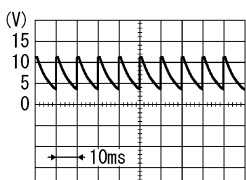
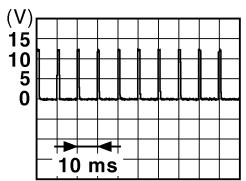
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
14 (L)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle Close to 5 V
				When dark outside of the vehicle Close to 0 V	
15 (W)	Ground	Rear window defogger switch	Input	Rear window defogger switch	Not pressed  1.0 - 1.5 V
				Pressed 0 V	
16*3 (Y)	Ground	Dimmer signal	Output	Ignition switch ON	Either of the following conditions • Lighting switch OFF • The area around the vehicle is bright (Shine a light on the optical sensor) 0 V
				The area around the vehicle is dark (Block the light from the optical sensor) 7.5 - 16 V	
17 (O)	Ground	Sensor power supply	Output	Ignition switch OFF, ACC 0 V	
				ON 4.65 - 5.5 V	
18 (R)	Ground	Receiver and sensor ground	Input	Ignition switch ON 0 V	
21 (R)	Ground	NATS antenna amp.	Input/ Output	Intelligent Key: Intelligent Key battery is removed  JMKIA6232JP	
				Brake pedal: Depressed <b>NOTE:</b> Waveform varies each time when brake pedal is depressed	
23 (V)	Ground	Security indicator lamp control	Output	Security indicator lamp	ON 0 - 0.5 V
				Blinking (Ignition switch OFF)  JPMIA0590GB 12.0 V	
24*4 (B)	Ground	Dongle link	Input/ Output	Ignition switch OFF 5 V	

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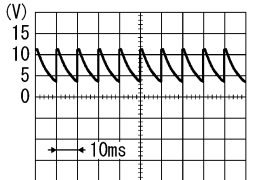
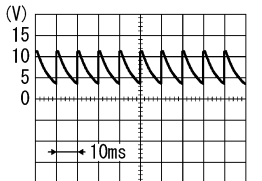
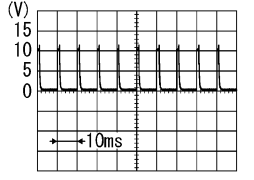
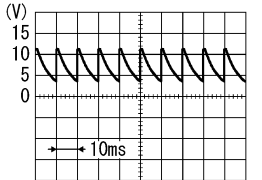
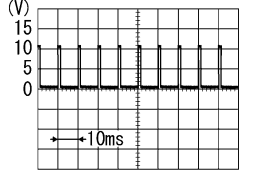
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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
25 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Brake pedal: Depressed <b>NOTE:</b> Waveform varies each time when brake pedal is depressed  <small>JMKIA6233JP</small>	
				Brake pedal: Not depressed	9 - 16 V	
27 (O)	Ground	A/C ON (Automatic air conditioner)	Input	A/C	OFF (A/C switch indicator: OFF)  <small>PKIB4960J</small>	
				ON (A/C switch indicator: ON)	0 V	
		A/C ON (Manual c air conditioner)	Input	Ignition switch ON and blower fan switch other than OFF	A/C switch OFF	12 V
				A/C switch ON	0 V	
28 (BR)	Ground	Blower fan ON (Automatic air conditioner)	Input	Fan switch	OFF	12 V
				ON	0 V	
		Blower fan ON (Manual air conditioner)	Input	Fan switch	OFF	 <small>PKIB4960J</small>
					Other than OFF	0 V
29 (P)	Ground	Hazard switch	Input	Hazard switch	OFF	9 - 16 V
				ON	0 - 1.5 V	
30 (L)	Ground	Back door opener switch	Input	Back door opener switch	Pressed	0 V
				Not pressed	 <small>JPMIA0012GB</small>	

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## < ECU DIAGNOSIS INFORMATION >

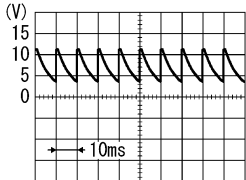
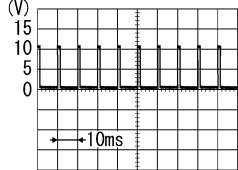
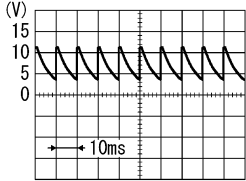
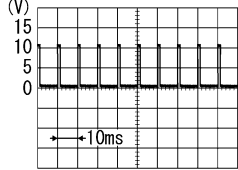
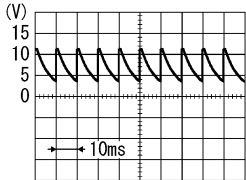
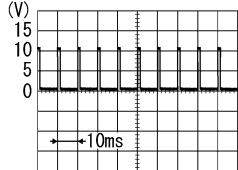
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
31 (O)	Ground	Front door lock as- sembly driver side (Unlock sensor)	Input	Driver door	 <p style="text-align: center;">7.0 - 8.0 V</p>	
					UNLOCK status (Unlock sensor switch ON)	0 V
32 (Y)	Ground	Combination switch OUTPUT 5	Output	Combination switch	 <p style="text-align: center;">7.0 - 8.0 V</p>	
					Front fog lamp switch ON (Wiper volume dial 4)	 <p style="text-align: center;">1.0 V</p>
					Rear wiper switch ON (Wiper volume dial 4)	
		Any of the condition below with all switches OFF	<ul style="list-style-type: none"> <li>• Wiper volume dial 1</li> <li>• Wiper volume dial 2</li> <li>• Wiper volume dial 6</li> <li>• Wiper volume dial 7</li> </ul>			
33 (W)	Ground	Combination switch OUTPUT 4	Output	Combination switch	 <p style="text-align: center;">7.0 - 8.0 V</p>	
					Lighting switch 1ST (Wiper volume dial 4)	 <p style="text-align: center;">1.2 V</p>
					Lighting switch AUTO (Wiper volume dial 4)	
					Rear wiper switch INT (Wiper volume dial 4)	
	Any of the condition below with all switches OFF	<ul style="list-style-type: none"> <li>• Wiper volume dial 1</li> <li>• Wiper volume dial 5</li> <li>• Wiper volume dial 6</li> </ul>				

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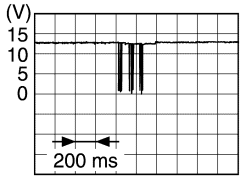
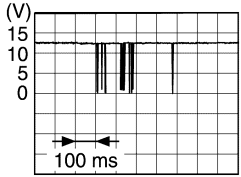
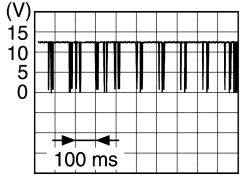
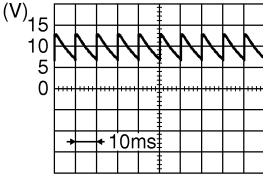
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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
34 (GR)	Ground	Combination switch OUTPUT 3	Output	Combination switch	All switches OFF (Wiper volume dial 4)	 <p style="text-align: right;">7.0 - 8.0 V</p>
					Lighting switch 2ND (Wiper volume dial 4)	 <p style="text-align: right;">1.2 V</p>
					Lighting switch HI (Wiper volume dial 4)	
					Rear washer switch ON (Wiper volume dial 4)	
Any of the condition below with all switches OFF						
<ul style="list-style-type: none"> <li>• Wiper volume dial 1</li> <li>• Wiper volume dial 2</li> <li>• Wiper volume dial 3</li> </ul>						
35 (SB)	Ground	Combination switch OUTPUT 2	Output	Combination switch (Wiper volume dial 4)	All switches OFF	 <p style="text-align: right;">7.0 - 8.0 V</p>
					Lighting switch 2ND	 <p style="text-align: right;">1.2 V</p>
					Lighting switch PASS	
					Front wiper switch INT	
Front wiper switch HI						
36 (R)	Ground	Combination switch OUTPUT 1	Output	Combination switch (Wiper volume dial 4)	All switches OFF	 <p style="text-align: right;">7.0 - 8.0 V</p>
					Turn signal switch RH	 <p style="text-align: right;">1.2 V</p>
					Turn signal switch LH	
					Front wiper switch LO	
					Front wiper switch MIST	
Front washer switch ON						

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## < ECU DIAGNOSIS INFORMATION >

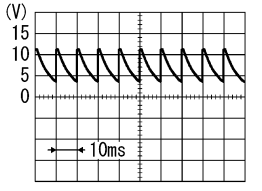
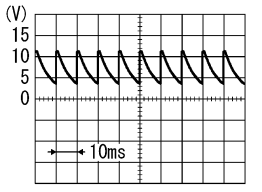
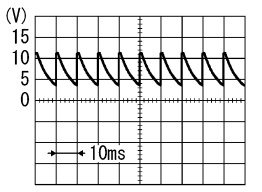
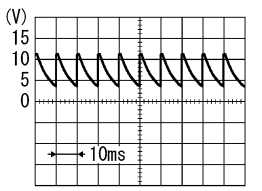
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
37 (G)	Ground	Detention switch	Input	Selector lever	P position (Release selector button)	0 – 1.5 V
					P position (Push selector button)	6 – 16 V
					Any position other than P	
38 (SB)	Ground	Receiver communication	Input/ Output	Ignition switch OFF (Remote keyless entry communication)	Waiting	12 V
					When operating either button on Intelligent Key	
				Ignition switch ON (TPMS communication)	Waiting	
					When receiving signal from tire pressure sensor	
39 (L)	Ground	CAN-H	Input/ Output	—	—	
40 (P)	Ground	CAN-L	Input/ Output	—	—	
43 (P)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	
					ON (When back door opened)	9.0 - 10.0 V
44 (Y)	Ground	Rear wiper stop position	Input	Ignition switch ON	Rear wiper stop position	12 V
					Any position other than rear wiper stop position	0 V

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Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
45 (SB)	Ground	Passenger door switch	Input	Passenger door switch	 <p style="text-align: center;">7.0 - 8.0 V</p>	
				OFF (When passenger door closed)	0 V	
46 (R)	Ground	Sliding door RH switch	Input	Sliding door RH switch	 <p style="text-align: center;">7.0 - 8.0 V</p>	
				OFF (When sliding door RH closed)	0 V	
47 (G)	Ground	Driver door switch	Input	Driver door switch	 <p style="text-align: center;">7.0 - 8.0 V</p>	
				OFF (When driver door closed)	0 V	
48 (O)	Ground	Sliding door LH switch	Input	Sliding door LH switch	 <p style="text-align: center;">7.0 - 8.0 V</p>	
				OFF (When sliding door LH closed)	0 V	
49 (B)	Ground	Luggage room lamp control	Output	Luggage room lamp	9 - 16 V	
				OFF	0 - 1.0 V	
50*2 (V)	Ground	Selective unlock relay control (Sliding door LH UNLOCK control)	Input	Sliding door LH	UNLOCK (Actuator is activated)	0 - 0.6 V
				Other then UNLOCK (Actuator is not activated)	9 - 16 V	
51 (LG)	Ground	Back door request switch	Input	Back door request switch	ON (Pressed)	0 - 1.5 V
				OFF (Not pressed)	9 - 16 V	

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## < ECU DIAGNOSIS INFORMATION >

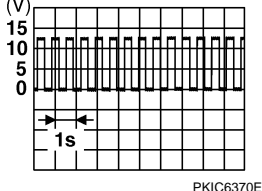
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
53*5 (BR)	Ground	Back door open request	Output	Back door opener switch	OFF (Actuator is not activated)	9 - 16 V
					ON (Actuator is activated)	0 - 1.5 V (Approx. 500m seconds)
54 (R)	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
					ON (Activated)	9 - 16 V
55 (G)	Ground	Sliding door RH UNLOCK (with automatic sliding door system)	Output	Sliding door RH	UNLOCK (Actuator is activated)	9 - 16 V
					Other then UNLOCK (Actuator is not activated)	0 V
		Sliding door UNLOCK (without automatic sliding door system)		Sliding door	UNLOCK (Actuator is activated)	9 - 16 V
					Other then UNLOCK (Actuator is not activated)	0 V
56 (P)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)	0 V	
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)	9 - 16 V	
57 (GR)	Ground	Battery power supply	Input	Ignition switch OFF		9 - 16 V
58 (O)	Ground	Air bag signal	Input	Ignition switch	OFF	5 V
					ON	<p style="text-align: right; font-size: small;">JPMIA1034GB</p>
						2.5 V
59 (SB)	Ground	Passenger door UNLOCK	Output	Passenger door	UNLOCK (Actuator is activated)	9 - 16 V
					Other then UNLOCK (Actuator is not activated)	0 V
60 (V)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	<p style="text-align: right; font-size: small;">PKIC6370E</p>
						6.5 V (Turn signal lamp turn on: 9 - 16 V)

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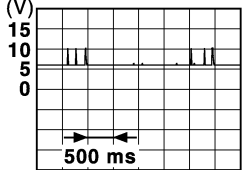
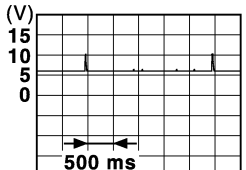
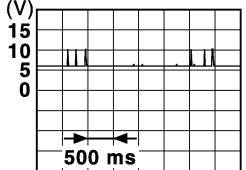
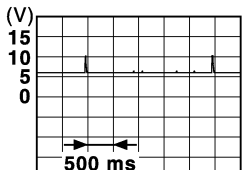
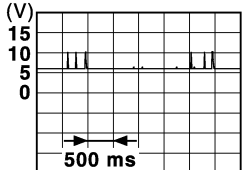
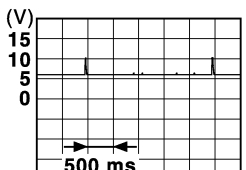
## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
61 (G)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch OFF	0 V
				Turn signal switch RH	 <p style="text-align: center;">6.5 V (Turn signal lamp turn on: 9 - 16 V)</p>	
62 (W)	Ground	Step lamp	Output	Step lamp	ON	0 - 1.0 V
					OFF	9 - 16 V
63 (R)	Ground	Interior room lamp control	Output	Interior room lamp	OFF	9 - 16 V
					ON	0 - 1.0 V
64 (LG)	Ground	Cranking request	input	Ignition switch ON	Engine stopped (Selector lever is in P position)	0 - 1.0 V
					Engine stopped (Selector lever is not in P position)	9 - 16 V
					Engine running	9 - 16 V
65 (V)	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	9 - 16 V
					Other then LOCK (Actuator is not activated)	0 V
66 (G)	Ground	Driver door UN-LOCK	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	9 - 16 V
					Other then UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch ON	0 V	
68 (L)	Ground	P/W power supply (IGN)	Output	Ignition switch OFF	0 V	
				Ignition switch ON	9 - 16 V	
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF	9 - 16 V	
70 (L)	Ground	Battery power supply	Input	Ignition switch OFF	9 - 16 V	
73 (Y)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	9 - 16 V
					ON	0 - 1.5 V
75 (SB)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 - 1.5 V
					OFF (Not pressed)	9 - 16 V
76 (V)	Ground	Push-button ignition switch (push switch)	Input	Push-button ignition switch (push switch)	Pressed	0 - 1.5 V
					Not pressed	9 - 16 V



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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
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78 (P)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operated with ignition switch ON	<p>When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)</p>  <p style="text-align: right; font-size: small;">JMKIA5954GB</p>
				When the driver door request switch is operated with ignition switch ON	<p>When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)</p>  <p style="text-align: right; font-size: small;">JMKIA5955GB</p>
79 (V)	Ground	Driver door antenna (-)	Output	When the driver door request switch is operated with ignition switch ON	<p>When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)</p>  <p style="text-align: right; font-size: small;">JMKIA5954GB</p>
				When the driver door request switch is operated with ignition switch ON	<p>When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)</p>  <p style="text-align: right; font-size: small;">JMKIA5955GB</p>
80 (R)	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch ON	<p>When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)</p>  <p style="text-align: right; font-size: small;">JMKIA5954GB</p>
				When the passenger door request switch is operated with ignition switch ON	<p>When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)</p>  <p style="text-align: right; font-size: small;">JMKIA5955GB</p>

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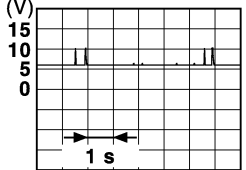
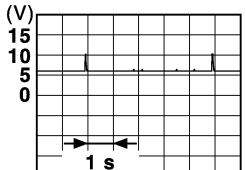
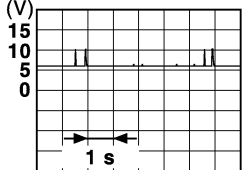
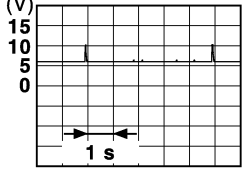
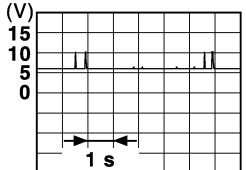
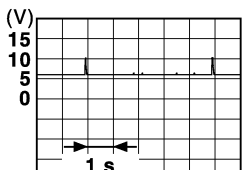
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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
81 (L)	Ground	Passenger door antenna (-)	Output	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	<p style="text-align: right; font-size: small;">JMkia5954GB</p>
				When the passenger door request switch is operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)
82 (G)	Ground	Rear bumper antenna (+)	Output	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	<p style="text-align: right; font-size: small;">JMkia5954GB</p>
				When the back door request switch is operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)
83 (R)	Ground	Rear bumper antenna (-)	Output	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	<p style="text-align: right; font-size: small;">JMkia5954GB</p>
				When the back door request switch is operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)

# BCM

## < ECU DIAGNOSIS INFORMATION >

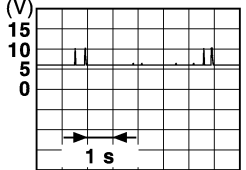
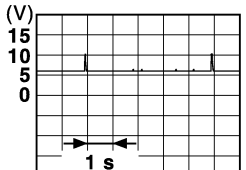
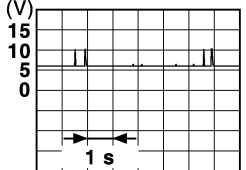
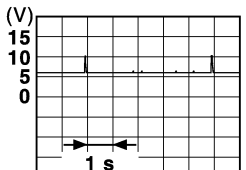
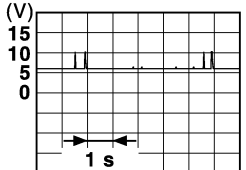
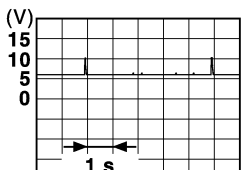
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
84 (Y)	Ground	Room antenna 1 (+) (Instrument center)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detec- tion area	 <p style="text-align: right; font-size: small;">JMKIA5951GB</p>
					When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA3839GB</p>
85 (BR)	Ground	Room antenna 1 (-) (Instrument center)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detec- tion area	 <p style="text-align: right; font-size: small;">JMKIA5951GB</p>
					When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA3839GB</p>
86 (LG)	Ground	Room antenna 2 (+) (Console)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detec- tion area	 <p style="text-align: right; font-size: small;">JMKIA5951GB</p>
					When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA3839GB</p>

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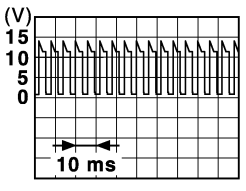
# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
87 (V)	Ground	Room antenna 2 (-) (Console)	Output	Ignition switch ON	 <p style="text-align: right; font-size: small;">JMKIA5951GB</p>
				Ignition switch ON	 <p style="text-align: right; font-size: small;">JMKIA3839GB</p>
88 (W)	Ground	Luggage room antenna (+)	Output	Ignition switch ON	 <p style="text-align: right; font-size: small;">JMKIA5951GB</p>
				Ignition switch ON	 <p style="text-align: right; font-size: small;">JMKIA3839GB</p>
89 (B)	Ground	Luggage room antenna (-)	Output	Ignition switch ON	 <p style="text-align: right; font-size: small;">JMKIA5951GB</p>
				Ignition switch ON	 <p style="text-align: right; font-size: small;">JMKIA3839GB</p>

# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
90 (P)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch illu- mination	ON	9 – 16 V
					OFF	0 – 1.5 V
91 (SB)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF (Ignition switch OFF)	9 – 16 V
					ON	0 – 1.5 V
92 (G)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF	0 V
					ON	<p><b>NOTE:</b> When the illumination brighten- ing/dimming level is in the neutral position</p>  <p style="text-align: center;">6.0 - 7.0 V</p> <p style="text-align: right; font-size: small;">JPMIA1554GB</p>
93 (R)	Ground	Intelligent Key warn- ing buzzer	Output	Intelligent Key warning buzzer	Sounding	0 – 1.5 V
					Not sounding	9 – 16 V
96 (BR)	Ground	ACC relay control	Output	Ignition switch	OFF	0 – 0.5 V
					ACC or ON	9 – 16 V
97 (W)	Ground	Starter relay control	Output	Ignition switch ON	Other than engine crank- ing	9 – 16 V
					Engine cranking	0 – 0.5 V
98 (LG)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	9 – 16 V
					ON	0 – 0.5 V
99 (GR)	Ground	Ignition relay control	Output	Ignition switch	OFF or ACC	0 – 0.5 V
					ON	9 – 16 V
100 (GR)	Ground	Passenger door re- quest switch	Input	Passenger door request switch	ON (Pressed)	0 – 1.5 V
					OFF (Not pressed)	9 – 16 V
101 (BR)	Ground	Ignition power sup- ply No. 2	Output	Ignition switch	OFF or ACC	0 V
					ON	9 – 16 V
102 (Y)	Ground	P/N position	Input	Selector lever	P or N position	9 – 16 V
					Except P and N positions	0 – 1.5 V
104 (L)	Ground	CVT shift selector (detention switch) power supply	Output	Ignition switch ON		9 – 16 V
105 (GR)	Ground	Stop lamp switch 2	Input	Ignition switch OFF		9 – 16 V
106 (O)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC	0 – 0.5 V
					ON	9 – 16 V
109 (GR)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	9 – 16 V
					ACC	0 – 1.5 V

- \*1: Without automatic sliding door system
- \*2: With automatic sliding door system
- \*3: With rear entertainment
- \*4: For Canada

## < ECU DIAGNOSIS INFORMATION >

- \*5: Without automatic back door system

### Fail-safe

INFOID:000000009651711

#### 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 engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2196: DONGLE NG	Inhibit engine cranking	Erase DTC
B2198: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> <li>Starter motor relay control signal</li> <li>Starter relay status signal (CAN)</li> </ul>
B260F: ENG STATE SIG LOST	Inhibit engine cranking	When any of the following conditions are fulfilled <ul style="list-style-type: none"> <li>Ignition switch changes to ACC</li> <li>Receives engine status signal (CAN)</li> </ul>
B26F1: IGN RELAY OFF	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>Ignition switch ON signal (CAN: Transmitted from BCM): ON</li> <li>Ignition switch ON signal (CAN: Transmitted from IPDM E/R): ON</li> </ul>
B26F2: IGN RELAY ON	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>Ignition switch ON signal (CAN: Transmitted from BCM): OFF</li> <li>Ignition switch ON signal (CAN: Transmitted from IPDM E/R): OFF</li> </ul>
B26F3: START CONT RLY ON	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>Starter control relay signal (CAN: Transmitted from BCM): OFF</li> <li>Starter control relay signal (CAN: Transmitted from IPDM E/R): OFF</li> </ul>
B26F4: START CONT RLY OFF	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>Starter control relay signal (CAN: Transmitted from BCM): ON</li> <li>Starter control relay signal (CAN: Transmitted from IPDM E/R): ON</li> </ul>
B26F7: BCM	Inhibit engine cranking by Intelligent Key system	When room antenna and luggage room antenna functions normally

#### 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.

**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

INFOID:000000009651712

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

# BCM

## < ECU DIAGNOSIS INFORMATION >

Priority	DTC	A
1	B2562: LOW VOLTAGE	A
2	<ul style="list-style-type: none"> <li>• U1000: CAN COMM</li> <li>• U1010: CONTROL UNIT (CAN)</li> </ul>	B
3	<ul style="list-style-type: none"> <li>• B2192: ID DISCORD BCM-ECM</li> <li>• B2193: CHAIN OF BCM-ECM</li> <li>• B2195: ANTI-SCANNING</li> <li>• B2196: DONGLE NG</li> <li>• B2198: NATS ANTENNA AMP</li> </ul>	C
4	<ul style="list-style-type: none"> <li>• B2555: STOP LAMP</li> <li>• B2556: PUSH-BTN IGN SW</li> <li>• B2557: VEHICLE SPEED</li> <li>• B2601: SHIFT POSITION</li> <li>• B2602: SHIFT POSITION</li> <li>• B2603: SHIFT POSI STATUS</li> <li>• B2604: PNP/CLUTCH SW</li> <li>• B2605: PNP/CLUTCH SW</li> <li>• B2608: STARTER RELAY</li> <li>• B260F: ENG STATE SIG LOST</li> <li>• B2614: BCM</li> <li>• B2615: BCM</li> <li>• B2616: BCM</li> <li>• B2618: BCM</li> <li>• B261A: PUSH-BTN IGN SW</li> <li>• B26F1: IGN RELAY OFF</li> <li>• B26F2: IGN RELAY ON</li> <li>• B26F3: START CONT RLY ON</li> <li>• B26F4: START CONT RLY OFF</li> <li>• B26F6: BCM</li> <li>• B26F7: BCM</li> <li>• B26F8: BCM</li> <li>• B26F9: CRANK REQ CIR SHORT</li> <li>• B26FA: CRANK REQ CIR OPEN</li> <li>• B26FC: KEY REGISTRATION</li> <li>• C1729: VHCL SPEED SIG ERR</li> <li>• U0415: VEHICLE SPEED</li> </ul>	D E F G H I J
5	<ul style="list-style-type: none"> <li>• C1704: LOW PRESSURE FL</li> <li>• C1705: LOW PRESSURE FR</li> <li>• C1706: LOW PRESSURE RR</li> <li>• C1707: LOW PRESSURE RL</li> <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>	K L BCS
5	<ul style="list-style-type: none"> <li>• B2621: INSIDE ANTENNA</li> <li>• B2622: INSIDE ANTENNA</li> <li>• B2623: INSIDE ANTENNA</li> </ul>	N O
6	<ul style="list-style-type: none"> <li>• B2626: OUTSIDE ANTENNA</li> <li>• B2627: OUTSIDE ANTENNA</li> <li>• B2628: OUTSIDE ANTENNA</li> </ul>	P

### DTC Index

INFOID:000000009651713

**NOTE:**

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

# BCM

## < ECU DIAGNOSIS INFORMATION >

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to [BCS-16, "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	—	—	—	—	—
U1000: CAN COMM	—	—	—	—	<a href="#">BCS-87</a>
U1010: CONTROL UNIT (CAN)	—	—	—	—	<a href="#">BCS-88</a>
U0415: VEHICLE SPEED	—	—	×	—	<a href="#">BCS-89</a>
B2192: ID DISCORD BCM-ECM	×	—	—	—	<a href="#">SEC-63</a>
B2193: CHAIN OF BCM-ECM	×	—	—	—	<a href="#">SEC-64</a>
B2195: ANTI-SCANNING	×	—	—	—	<a href="#">SEC-65</a>
B2196: DONGLE NG	×	—	—	—	<a href="#">SEC-66</a>
B2198: NATS ANTENNA AMP	×	—	—	—	<a href="#">SEC-68</a>
B2555: STOP LAMP	—	×	×	—	<a href="#">SEC-71</a>
B2556: PUSH-BTN IGN SW	—	×	×	—	<a href="#">SEC-74</a>
B2557: VEHICLE SPEED	—	×	×	—	<a href="#">SEC-76</a>
B2562: LOW VOLTAGE	—	×	—	—	<a href="#">BCS-90</a>
B2601: SHIFT POSITION	—	×	×	—	<a href="#">SEC-77</a>
B2602: SHIFT POSITION	—	×	×	—	<a href="#">SEC-79</a>
B2603: SHIFT POSI STATUS	—	×	×	—	<a href="#">SEC-82</a>
B2604: PNP/CLUTCH SW	—	×	×	—	<a href="#">SEC-86</a>
B2605: PNP/CLUTCH SW	—	×	×	—	<a href="#">SEC-88</a>
B2608: STARTER RELAY	×	×	×	—	<a href="#">SEC-90</a>
B260F: ENG STATE SIG LOST	×	×	×	—	<a href="#">SEC-92</a>
B2614: BCM	—	×	×	—	<a href="#">PCS-57</a>
B2615: BCM	—	×	×	—	<a href="#">PCS-59</a>
B2616: BCM	—	×	×	—	<a href="#">PCS-61</a>
B2618: BCM	—	×	×	—	<a href="#">PCS-63</a>
B261A: PUSH-BTN IGN SW	—	×	×	—	<a href="#">PCS-65</a>
B2621: INSIDE ANTENNA	—	×	—	—	<a href="#">DLK-226</a>
B2622: INSIDE ANTENNA	—	×	—	—	<a href="#">DLK-228</a>
B2623: INSIDE ANTENNA	—	×	—	—	<a href="#">DLK-230</a>
B2626: OUTSIDE ANTENNA	—	×	—	—	<a href="#">DLK-234</a>
B2627: OUTSIDE ANTENNA	—	×	—	—	<a href="#">DLK-232</a>
B2628: OUTSIDE ANTENNA	—	×	—	—	<a href="#">DLK-236</a>
B26F1: IGN RELAY OFF	×	×	×	—	<a href="#">PCS-67</a>
B26F2: IGN RELAY ON	×	×	×	—	<a href="#">PCS-68</a>
B26F3: START CONT RLY ON	×	×	×	—	<a href="#">SEC-95</a>
B26F4: START CONT RLY OFF	×	×	×	—	<a href="#">SEC-96</a>
B26F6: BCM	—	×	×	—	<a href="#">PCS-70</a>
B26F7: BCM	×	×	×	—	<a href="#">SEC-97</a>



# BCM

## < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	
B26F8: BCM	—	×	×	—	<a href="#">SEC-98</a>	A
B26F9: CRANK REQ CIR SHORT	—	×	×	—	<a href="#">SEC-99</a>	B
B26FA: CRANK REQ CIR OPEN	—	×	×	—	<a href="#">SEC-101</a>	C
B26FC: KEY REGISTRATION	—	×	×	—	<a href="#">SEC-103</a>	
C1704: LOW PRESSURE FL	—	—	—	×	<a href="#">WT-25</a>	D
C1705: LOW PRESSURE FR	—	—	—	×		
C1706: LOW PRESSURE RR	—	—	—	×		
C1707: LOW PRESSURE RL	—	—	—	×		E
C1708: [NO DATA] FL	—	—	—	×	<a href="#">WT-27</a>	
C1709: [NO DATA] FR	—	—	—	×		F
C1710: [NO DATA] RR	—	—	—	×		
C1711: [NO DATA] RL	—	—	—	×		
C1716: [PRESSDATA ERR] FL	—	—	—	×	<a href="#">WT-29</a>	G
C1717: [PRESSDATA ERR] FR	—	—	—	×		
C1718: [PRESSDATA ERR] RR	—	—	—	×		H
C1719: [PRESSDATA ERR] RL	—	—	—	×		
C1729: VHCL SPEED SIG ERR	—	—	—	×	<a href="#">WT-31</a>	I

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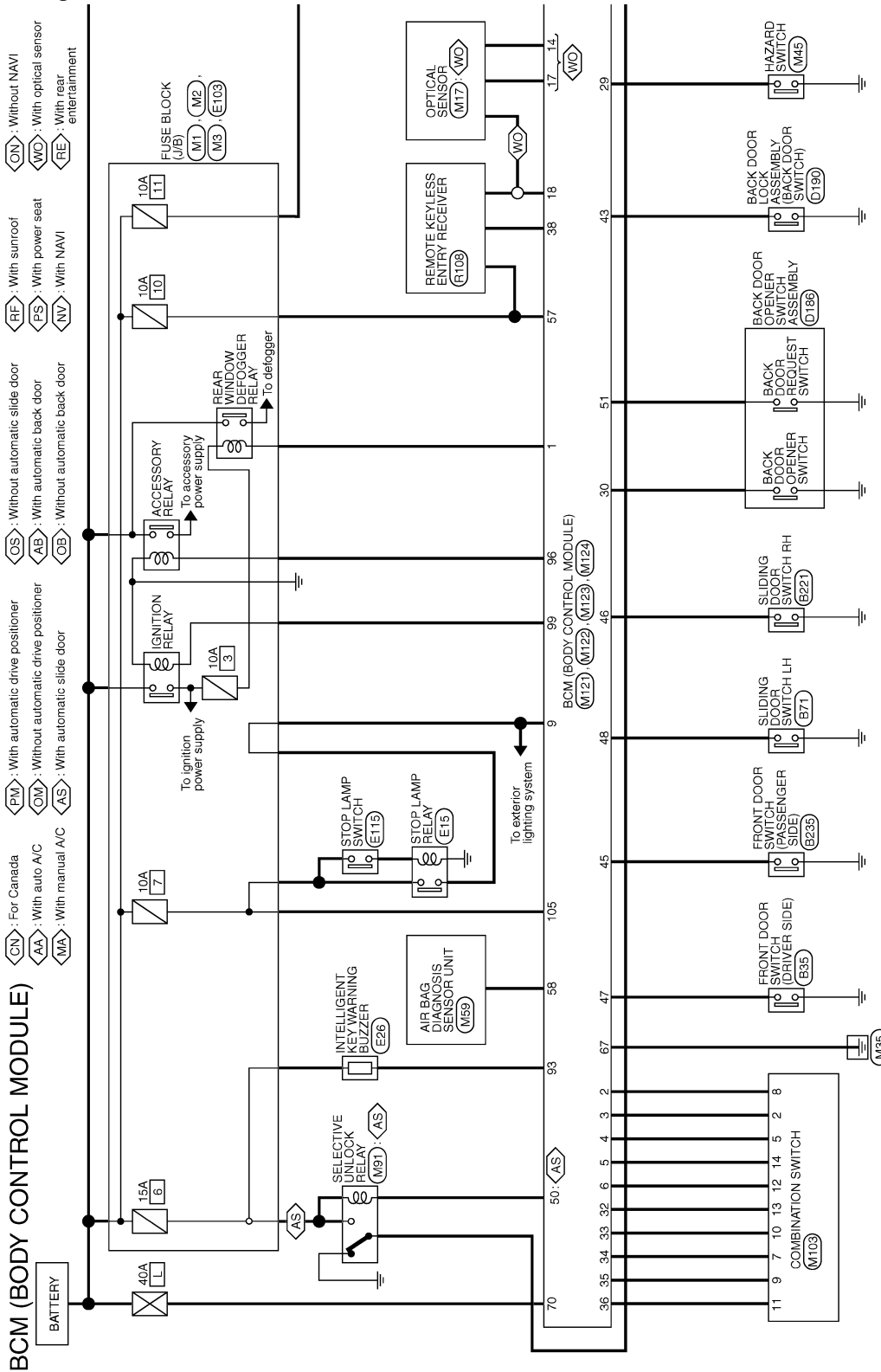
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# WIRING DIAGRAM

## BCM

### Wiring Diagram

INFOID:000000009651714



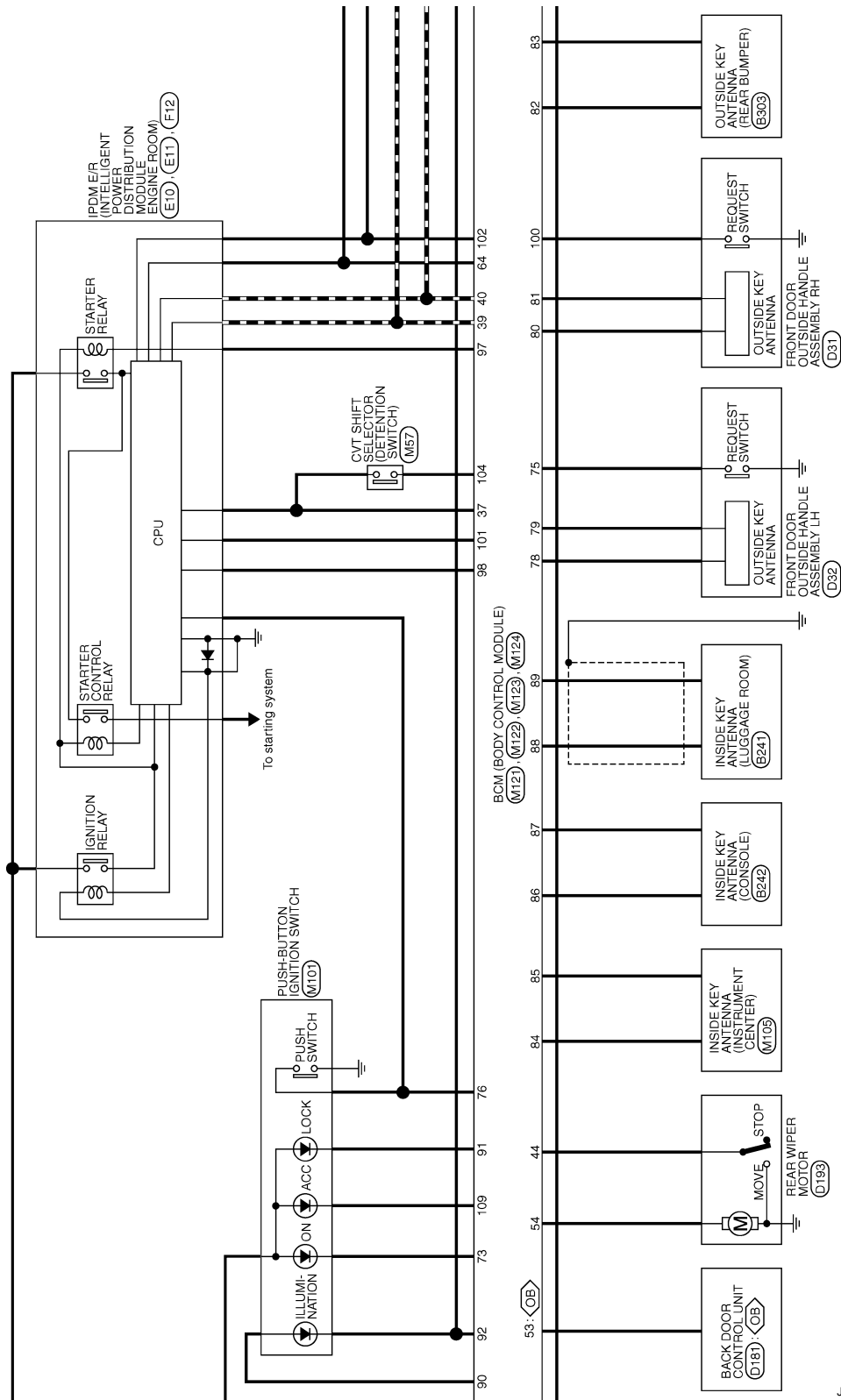
\*: This connector is not shown in "Harness Layout".

2013/07/10

JRMWE3313GB

# BCM

< WIRING DIAGRAM >



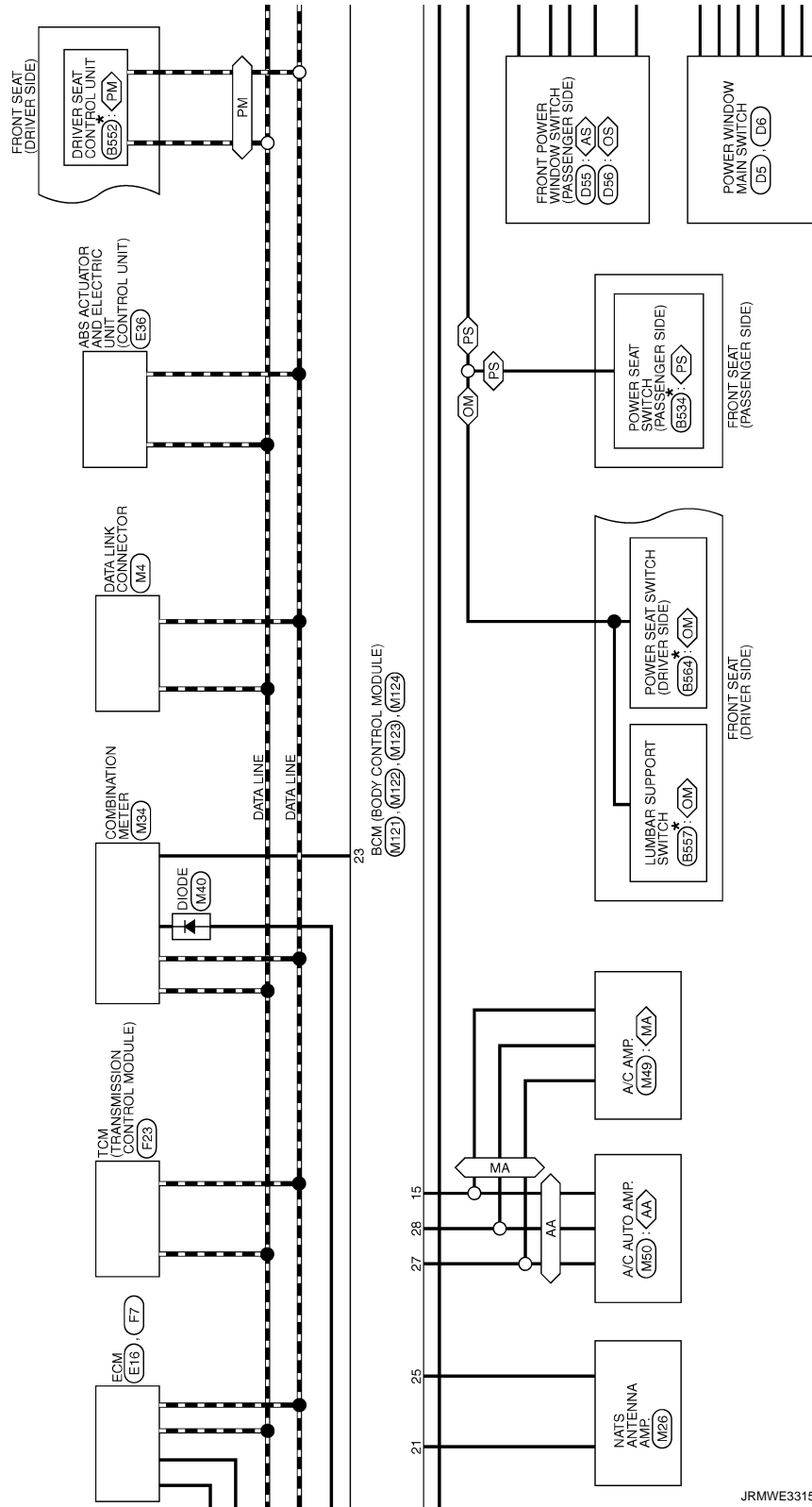
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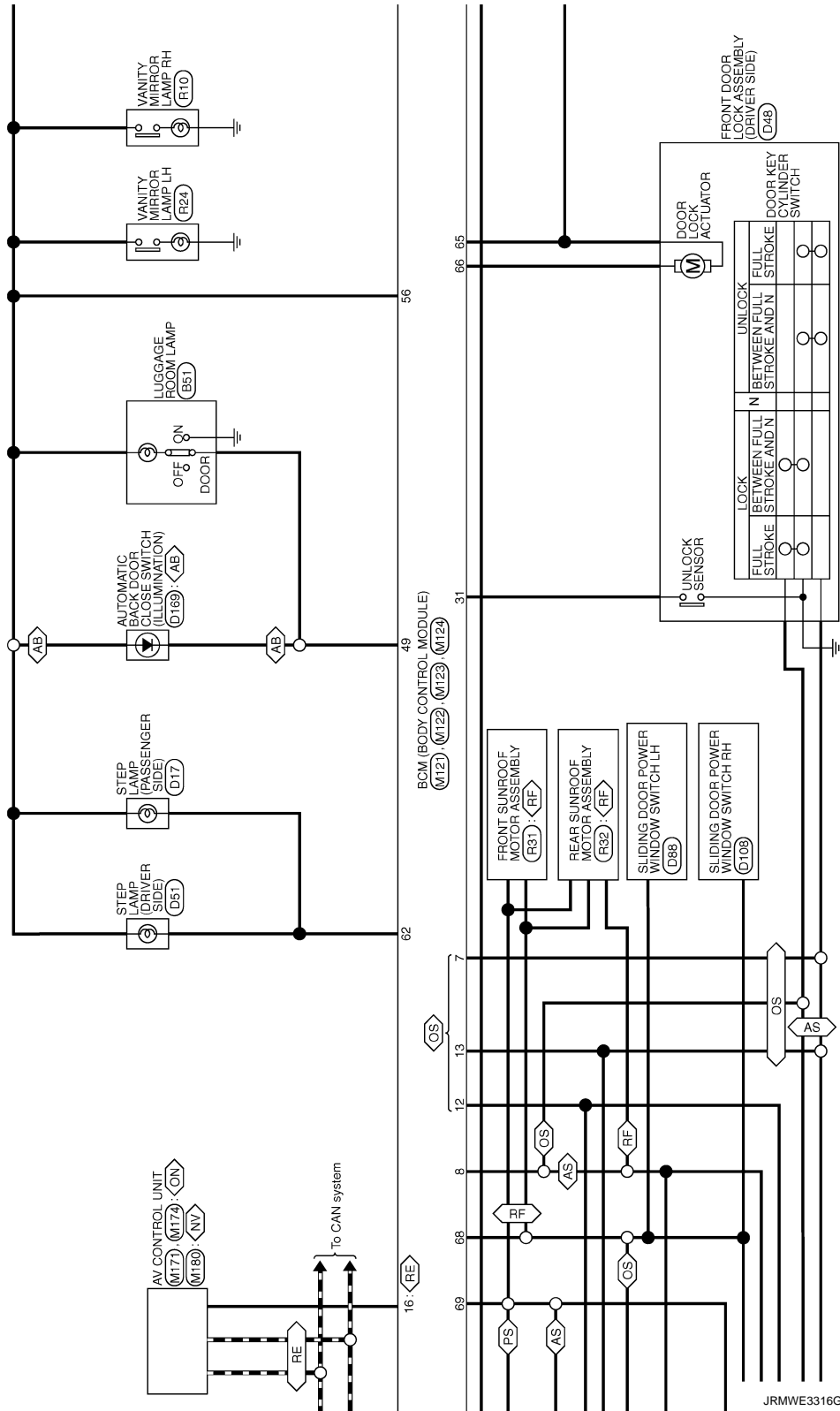
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JRMWE3315GB

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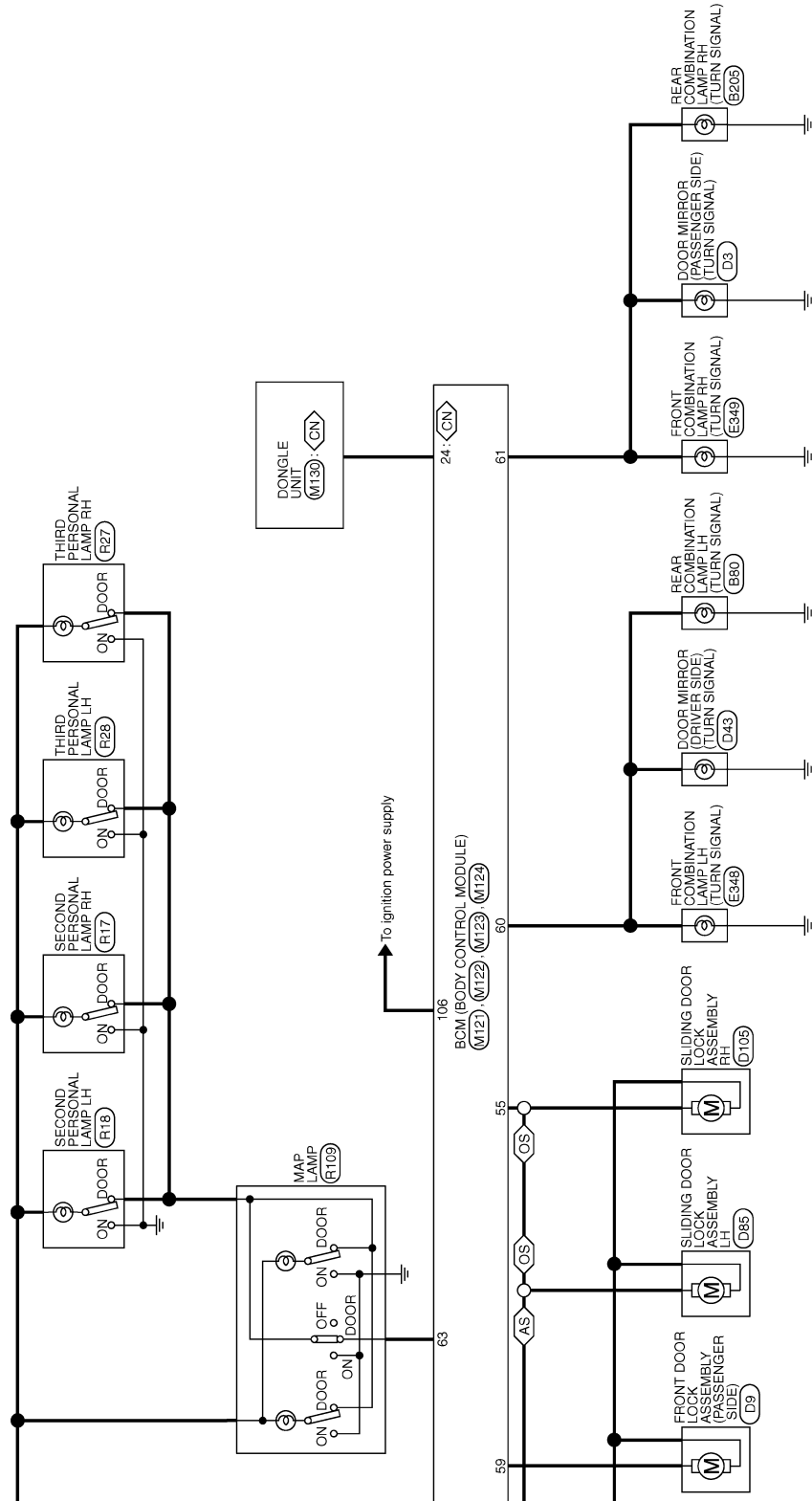


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# BCM

< WIRING DIAGRAM >



JRMWE3317GB

BCM (BODY CONTROL MODULE)

Connector No.	B235
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	O	-

Connector No.	B241
Connector Name	LUGGAGE ROOM LAMP
Connector Type	TH03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	SB	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	RS04GY-FR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-
3	W	-

Connector No.	B235
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RM02FL



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-

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JRMWE3318GB

**BCM (BODY CONTROL MODULE)**

Connector No.	BZ4Z
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RKOZFL



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	--
2	R	--

Connector No.	B303
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RKOZFL



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	--
2	W	--

Connector No.	B5B4
Connector Name	POWER SEAT SWITCH (PASSENGER SIDE)
Connector Type	INSIDFW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	B	--
34	G	--
35	G	--
38	GR	--
39	Y	--
43	LG	--

Connector No.	B5S2
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH3ZFW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R/Y	CAN-H
2	R	UART (TX/RX)
4	R/L	PULSE (RECLINER)
6	R/W	ADDRESS 2
7	R/G	IMP-2
8	SB	SLIDE SW (BACKWARD)
9	SB	SLIDE SW (FORWARD)
10	L/B	FRONT LIFTER SW (DOWNWARD)
11	L/W	FRONT LIFTER SW (UPWARD)
12	L/R	REAR LIFTER SW (DOWNWARD)
17	V	SENSOR POWER SUPPLY
18	B/W	CAN-L
19	B/R	PULSE (SLIDE)
20	B/L	PULSE (FRONT LIFTER)
		PULSE (REAR LIFTER)

22	W/L	ADDRESS 1
23	W/R	IMP-1
24	V/W	SLIDE SW (FORWARD)
25	Y/B	RECLINER SW (FORWARD)
26	Y/R	FRONT LIFTER SW (UPWARD)
27	Y/L	REAR LIFTER SW (UPWARD)
28	G	SET SW

Connector No.	B5S7
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	INSIDFW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	--
43	LG	--
45	P	--
48	BR	--

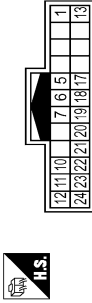
Connector No.	B5B4
Connector Name	POWER SEAT SWITCH (DRIVER SIDE)
Connector Type	INSIDFW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	--
34	B	--
35	G	--
38	L	--
39	Y	--
40	W	--

41	V	--
42	P/B	--
43	LG	--

Connector No.	D3
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH3ZMM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	--
5	W	--
6	R	--
7	LG	--
10	BR	--
11	SB	--
12	V	--
13	G	--
17	SHIELD	--
18	B	--
19	B	--
20	O	--
21	R	--
22	P	--
23	W	--
24	Y	--



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P

BCM (BODY CONTROL MODULE)

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS30FW-CS



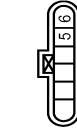
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	W	-
3	BR	-
4	P	-
5	SB	-
6	BR	- (Without passenger power window anti-pinch system)
7	GR	- (With front power window anti-pinch system)
8	BR	- (Without passenger power window anti-pinch system)
9	L	- (With front power window anti-pinch system)
10	SB	-
11	V	-
12	GR	- (Without passenger power window anti-pinch system)
13	LG	- (With front power window anti-pinch system)
14	Y	-
15	BR	-
16	L	-

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS30FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	-
18	SB	-
19	LG	-

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	EDBFQV-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
5	R	-
6	LG	-

Connector No.	D17
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TK02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	D31
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY RH
Connector Type	RH04MB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	P	-
3	B	-
4	B	-

Connector No.	D32
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY LH
Connector Type	RH04MB



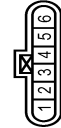
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	V	-
3	Y	-
4	B	-

Connector No.	D43
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	11U2MM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
3	B	-
4	B	-
5	SB	-
6	SB	-
7	SB	-
8	SB	-
9	SB	-
10	P	-
11	Y	-
12	BR	-
13	B	-
14	B	-
15	SHIELD	-
16	B	-
17	B	-
18	B	-
19	B	-
20	V	-
21	LG	-
22	R	-
23	GR	-
24	E	-

Connector No.	D48
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	EDBFQV-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	O	-
4	B	-

JRMWE3320GB

BCM (BODY CONTROL MODULE)

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	P	-

Connector No.	D51
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TR02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	GR	-

Connector No.	D55
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS18FW-CS



Connector No.	D56
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	SB	-
3	B	-
4	V	-
5	Y	-
6	P	-
7	L	-
8	LG	-
9	BR	-
10	LG	-
11	BR	-
12	BR	-

Connector No.	D55
Connector Name	SLIDING DOOR LOCK ASSEMBLY LH
Connector Type	SGV02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	L	-

Connector No.	D58
Connector Name	SLIDING DOOR POWER WINDOW SWITCH LH
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	SB	-
3	P	-
4	LG	-
5	L	-
6	BR	-
7	BR	-

Connector No.	D105
Connector Name	SLIDING DOOR LOCK ASSEMBLY RH
Connector Type	SGV02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	L	-

Connector No.	D108
Connector Name	SLIDING DOOR POWER WINDOW SWITCH RH
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	SB	-
3	P	-
4	LG	-
5	L	-
6	BR	-
7	BR	-

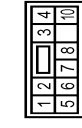
Connector No.	D109
Connector Name	AUTOMATIC BACK DOOR CLOSE SWITCH
Connector Type	TR00FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	W	-
4	LG	-

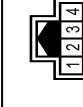
BCM (BODY CONTROL MODULE)

Connector No.	D181
Connector Name	BACK DOOR CONTROL UNIT
Connector Type	MSJDFW-GS



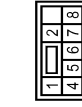
Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	CLOSE
2	GR	TRIP
3	G	TRIP
4	V	CLOSE
5	O	OPEN
6	BR	OPEN SW
7	B	DR LOCK STATUS
8	B/W	EARTH
10	G	OPEN

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TRBMM-HH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	B	-
4	V	-

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NSJDFW-GS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	O	-
3	L	-
4	L	-
5	L	-
6	GR	-
7	P	-
8	B	-

Connector No.	D193
Connector Name	REAR WIPER MOTOR
Connector Type	CJGDFW-TV



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
3	B	-
4	SB	-

Connector No.	E10
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TIJDFW-CSI2-M4-TV



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	-
5	G	-
6	G	-
7	BR	-
10	P	-
12	B	-
13	G	-
15	L	-
16	R	-
18	P	-
19	V	-
20	W	-
21	O	-
22	SB	-
23	GR	-
24	G	-
25	GR	-
27	BR	-
28	G	-
30	LG	-
34	O	-
35	P	-
36	G	-
38	GR	-

Connector No.	E11
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TIJDFW-HH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	E	-
41	E	-
42	SB	-
43	LG	-
44	W	-
45	Y	-
46	O	-

Connector No.	E15
Connector Name	STOP LAMP RELAY
Connector Type	MSJDFW-MZ-LG



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/W	-
2	LG	-
3	R	-
5	P	-

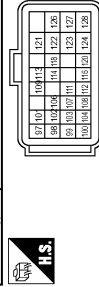
JRMWE3322GB

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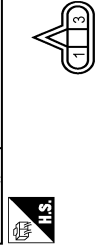
BCM (BODY CONTROL MODULE)

Connector No.	E16
Connector Name	ECM
Connector Type	RH42FGY-RZ8-L-LH



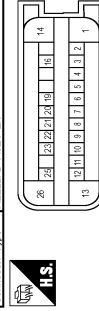
Terminal No.	Color Of Wire	Signal Name [Specification]
97	Y	ASCD STEERING SWITCH
98	LG	EVAP CONTROL SYSTEM PRESSURE SENSOR
99	GR	SENSOR POWER SUPPLY
100	B	SENSOR GROUND
101	Y	ASCD STEERING SWITCH
102	LG	EVAP CONTROL SYSTEM PRESSURE SENSOR
103	GR	SENSOR POWER SUPPLY
104	LG	DATA LINK CONNECTOR
106	V	EVAP CANISTER VENT CONTROL VALVE
107	W	SENSOR POWER SUPPLY
108	BR	IGNITION SWITCH
109	G	IGNITION SWITCH
111	Y	FUEL TANK TEMPERATURE SENSOR
112	V	SENSOR GROUND
113	P	DATA LINK CONNECTOR
114	L	CAN COMMUNICATION LINE
116	G	SENSOR GROUND
118	R	ECM GROUND
120	SB	SENSOR GROUND
121	L	POWER SUPPLY FOR ECM
122	SB	STOP LAMP SWITCH
123	B	ECM GROUND
124	B	ECM GROUND
126	BR	ASCD BRAKE SWITCH
127	B	ECM GROUND
128	B	ECM GROUND

Connector No.	E26
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	PRO2FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	VALVE BATTERY
2	Y	RR LH WHEEL SENSOR SIGNAL
3	GR	GROUND

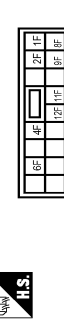
Connector No.	E36
Connector Name	ABS ACTUATOR NO. LEAKING UNIT (CONTROL UNIT)
Connector Type	AEZ2FB-AJ24-LH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	VALVE BATTERY
2	Y	RR LH WHEEL SENSOR SIGNAL
3	L	RR LH WHEEL SENSOR POWER SUPPLY
4	G	G. SENSOR POWER SUPPLY
5	B	FR RH WHEEL SENSOR POWER SUPPLY
6	W	FR RH WHEEL SENSOR SIGNAL
7	R	BRAKE FLUID LEVEL SWITCH SIGNAL
8	LG	FR LH WHEEL SENSOR SIGNAL
9	L	FR LH WHEEL SENSOR POWER SUPPLY
10	B	G. SENSOR GND
11	Y	RR RH WHEEL SENSOR SIGNAL
12	P	RR RH WHEEL SENSOR SIGNAL
13	B	GROUND
14	G	MOTOR BATTERY
16	SB	STOP LAMP SWITCH SIGNAL
19	Y	G. SENSOR SIGNAL (+)
20	GR	IGN
21	P	CAN-L

22	BR	VDC OFF SWITCH SIGNAL
23	O	CAN-L
24	O	G. SENSOR SIGNAL (-)
26	B	GROUND

Connector No.	E103
Connector Name	FUSE BLOCK (J/FB)
Connector Type	NS18FV-C5



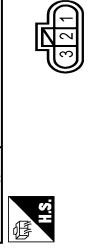
Terminal No.	Color Of Wire	Signal Name [Specification]
11F	G	STOP LAMP SWITCH
12F	V	MD4FW-LC
1F	SB	STOP LAMP SWITCH
2F	R	STOP LAMP SWITCH
4F	L	STOP LAMP SWITCH
6F	LG	STOP LAMP SWITCH
8F	P	STOP LAMP SWITCH
9F	BR	STOP LAMP SWITCH

Connector No.	E115
Connector Name	STOP LAMP SWITCH
Connector Type	MD4FW-LC



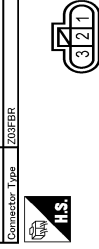
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	STOP LAMP SWITCH
2	LG	STOP LAMP SWITCH
3	O	STOP LAMP SWITCH
4	W	STOP LAMP SWITCH

Connector No.	E348
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	Z03FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	FRONT COMBINATION LAMP LH
2	B	FRONT COMBINATION LAMP LH
3	Y	FRONT COMBINATION LAMP LH

Connector No.	E349
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	Z03FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	FRONT COMBINATION LAMP RH
2	B	FRONT COMBINATION LAMP RH
3	SB	FRONT COMBINATION LAMP RH

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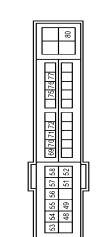
BCM (BODY CONTROL MODULE)

Connector No.	F7
Connector Name	ECM
Connector Type	RH40FB-R28-LRH



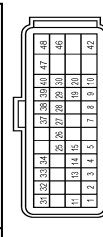
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G/W	THROTTLE CONTROL MOTOR POWER SUPPLY
2	P/B	THROTTLE CONTROL MOTOR POWER SUPPLY
3	SB	THROTTLE SENSOR 1 HEATER (BANK 2)
4	L	THROTTLE CONTROL MOTOR (GREEN)
5	BR/Y	A/F SENSOR 1 HEATER (BANK 1)
6	P	STARTER MOTOR RELAY CUT OFF SIGNAL
9	L/B	IGNITION SIGNAL No. 3
10	G/R	IGNITION SIGNAL No. 2
11	Y/R	IGNITION SIGNAL No. 1
12	B	ECM GROUND
13	GR/R	IGNITION SIGNAL No. 6
14	P	IGNITION SIGNAL No. 5
15	W	IGNITION SIGNAL No. 4
16	B/Y	ECM GROUND
19	B	SENSOR GROUND
22	R	THROTTLE POSITION SENSOR 1
23	R	THROTTLE POSITION SENSOR 2
24	G	SENSOR POWER SUPPLY
26	W/L	POWER SUPPLY FOR ECM (BACK-UP)
31	W/B	ECM RELAY (SELF SHUT-OFF)
33	R/B	FUEL INJECTOR No. 1
34	O	THROTTLE CONTROL MOTOR RELAY
37	P/B	HEATED OXYGEN SENSOR 2 HEATER (BANK 1)
38	BR/W	ELECTRONIC CONTROLLED ENGINE OIL CONTROL SOLENOID VALVE
39	V	VIAS CONTROL SOLENOID VALVE 1
40	GR/B	VIAS CONTROL SOLENOID VALVE 2
41	R	HEATED OXYGEN SENSOR 2 HEATER (BANK 2)
42	P/L	TEMP-GAUGETTE FUSE VOLUME CONTROL SOLENOID VALVE
43	GR	FUEL PUMP RELAY
44	P/B	FUEL INJECTOR No. 2
45	L/W	FUEL INJECTOR No. 6
46	L/W	FUEL INJECTOR No. 5
47	LG/R	FUEL INJECTOR No. 4
48	R/Y	FUEL INJECTOR No. 3

Connector No.	F12
Connector Name	IGNITION RELAY/POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH20FW-CS12-M4



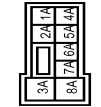
Terminal No.	Color Of Wire	Signal Name [Specification]
48	W	IGNITION RELAY
49	P/B	IGNITION RELAY
51	Y/G	IGNITION RELAY
52	Y/G	IGNITION RELAY
53	R/W	IGNITION RELAY
54	G/W	IGNITION RELAY
55	W/L	IGNITION RELAY
56	R/Y	IGNITION RELAY
57	O	IGNITION RELAY
58	Y	IGNITION RELAY
69	W/B	IGNITION RELAY
70	O	IGNITION RELAY
71	P	IGNITION RELAY
72	P/B	IGNITION RELAY
73	LG	IGNITION RELAY
74	R	IGNITION RELAY
77	B	IGNITION RELAY
80	B	IGNITION RELAY

Connector No.	F23
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	RH40FB-R28-LRH



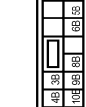
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P/B	TRANSMISSION RANGE SWITCH 2
2	P/L	TRANSMISSION RANGE SWITCH 3
3	G/O	TRANSMISSION RANGE SWITCH 4
4	GR	TRANSMISSION RANGE SWITCH 3 (MONITOR)
5	B	GROUND
7	W	SENSOR GROUND
8	G/W	ROM ASSY (SEL 2)
9	L/R	ROM ASSY (SEL 1)
10	BR/R	ROM ASSY (SEL 3)
11	BR/W	TRANSMISSION RANGE SWITCH 1
13	V	CVT FLUID TEMPERATURE SENSOR
14	R/W	PRIMARY PRESSURE SENSOR
15	G/W	SECONDARY PRESSURE SENSOR
16	G	BACKLASH DELAY
19	R/B	STARTER RELAY
20	W/R	SENSOR GROUND
25	W/R	SENSOR GROUND
26	L/O	SENSOR POWER
27	R/G	STEP MOTOR D
28	R	STEP MOTOR C
29	O/B	STEP MOTOR B
30	G/R	STEP MOTOR A
31	P	GAN-L
32	L	GAN-H
33	LG	PRIMARY SPEED SENSOR
34	LG/R	SECONDARY SPEED SENSOR
37	V/R	LOCK-UP SELECT SOLENOID VALVE
38	W	TURBO COMPRESSOR/CLUTCH SOLENOID VALVE
39	W	SECONDARY PRESSURE SENSOR
40	R/Y	LINE PRESSURE SENSOR VALVE
42	B	GROUND
46	Y	IGNITION POWER SUPPLY
47	L/R	BATTERY POWER SUPPLY (MEMORY BLOCK-UP)
48	Y	IGNITION POWER SUPPLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS9FW-M2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	Y	IGNITION RELAY
2A	G	IGNITION RELAY
3A	L	IGNITION RELAY
4A	GR	IGNITION RELAY
5A	V	IGNITION RELAY
6A	R	IGNITION RELAY
7A	GR	IGNITION RELAY
8A	L	IGNITION RELAY

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS

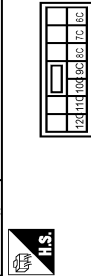


Terminal No.	Color Of Wire	Signal Name [Specification]
10B	R	IGNITION RELAY
3B	V	IGNITION RELAY
4B	W	IGNITION RELAY
5B	BR	IGNITION RELAY
8B	O	IGNITION RELAY
8B	GL	IGNITION RELAY
8B	GR	IGNITION RELAY

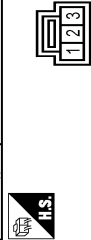


BCM (BODY CONTROL MODULE)

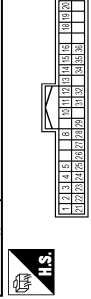
Connector No.	M3
Connector Name	FUSE BLOCK (A/B)
Connector Type	MS12FW-GS



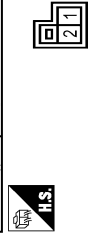
Connector No.	M7
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH04FW-BH



Connector No.	M40
Connector Name	DIODE
Connector Type	2413S-C9002

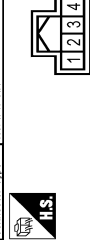


Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	POWER SUPPLY
2	Y	IGNITION SIGNAL
3	R	GROUND
4	GR	GROUND
5	B/R	ILLUMINATION CONTROL SIGNAL
6	G	TRIP RESET SWITCH SIGNAL
7	Y	METER CONTROL SWITCH SIGNAL
8	Y	ENTER SWITCH SIGNAL
9	Y	ILLUMINATION CONTROL SWITCH SIGNAL (+)
10	P	METER CONTROL SWITCH GROUND
11	G	ENTER SWITCH SIGNAL
12	BR	SELECT SWITCH SIGNAL
13	Y	ILLUMINATION CONTROL SWITCH SIGNAL (-)
14	V	ILLUMINATION CONTROL SWITCH SIGNAL (+)
15	BR	AIR BAG SIGNAL
16	L	ENGINE COOLANT TEMPERATURE SIGNAL
17	LG	AMBIENT SENSOR SIGNAL
18	Y	A/G AUTO AMBIENT SENSOR SIGNAL
19	Y	AMBIENT SENSOR GROUND
20	L	IGNITION SIGNAL
21	L	IGNITION GROUND
22	P	GROUND
23	B	GROUND
24	B	FUEL LEVEL SENSOR GROUND
25	BR	ALTERNATOR SIGNAL
26	BR	PARKING BRAKE LEVEL SWITCH SIGNAL
27	Y	SECURITY SIGNAL
28	V	WASHER LEVEL SWITCH SIGNAL
29	G	VEHICLE SPEED SIGNAL (B-PULSE)
30	P	VEHICLE SPEED SIGNAL (B-PULSE)
31	SB	OVERDRIVE CONTROL SWITCH SIGNAL
32	P	OVERDRIVE CONTROL SWITCH SIGNAL
33	O	FUEL LEVEL SENSOR SIGNAL
34	O	FUEL LEVEL SENSOR SIGNAL
35	BR	PASSENGER SEAT BELT WARNING SIGNAL
36	BR	PASSENGER SEAT BELT WARNING SIGNAL

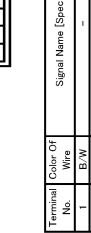
Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	POWER SUPPLY
2	Y	IGNITION SIGNAL
3	R	GROUND

Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	POWER SUPPLY
2	Y	IGNITION SIGNAL
3	R	GROUND
4	B	GROUND
5	B/P	ILLUMINATION CONTROL SIGNAL
6	SB	TRIP RESET SWITCH SIGNAL
7	P	METER CONTROL SWITCH SIGNAL
8	Y	ENTER SWITCH SIGNAL
9	Y	ILLUMINATION CONTROL SWITCH SIGNAL (+)
10	P	METER CONTROL SWITCH GROUND
11	G	ENTER SWITCH SIGNAL
12	BR	SELECT SWITCH SIGNAL
13	Y	ILLUMINATION CONTROL SWITCH SIGNAL (-)
14	V	ILLUMINATION CONTROL SWITCH SIGNAL (+)
15	BR	AIR BAG SIGNAL
16	L	ENGINE COOLANT TEMPERATURE SIGNAL
17	LG	AMBIENT SENSOR SIGNAL
18	Y	A/G AUTO AMBIENT SENSOR SIGNAL
19	Y	AMBIENT SENSOR GROUND
20	L	IGNITION SIGNAL
21	L	IGNITION GROUND
22	P	GROUND
23	B	GROUND
24	B	FUEL LEVEL SENSOR GROUND
25	BR	ALTERNATOR SIGNAL
26	BR	PARKING BRAKE LEVEL SWITCH SIGNAL
27	Y	SECURITY SIGNAL
28	V	WASHER LEVEL SWITCH SIGNAL
29	G	VEHICLE SPEED SIGNAL (B-PULSE)
30	P	VEHICLE SPEED SIGNAL (B-PULSE)
31	SB	OVERDRIVE CONTROL SWITCH SIGNAL
32	P	OVERDRIVE CONTROL SWITCH SIGNAL
33	O	FUEL LEVEL SENSOR SIGNAL
34	O	FUEL LEVEL SENSOR SIGNAL
35	BR	PASSENGER SEAT BELT WARNING SIGNAL
36	BR	PASSENGER SEAT BELT WARNING SIGNAL

Connector No.	M26
Connector Name	NATS ANTENNA AMP.
Connector Type	TH04FW-BH



Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TK04FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/W	—
2	P	—
3	R	—
4	B	—

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BAT
2	R	CLK
3	W	DATA
4	B/W	GROUND

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BAT
2	R	CLK
3	W	DATA
4	B/W	GROUND

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/W	—
2	P	—
3	R	—
4	B	—

Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	—
4	B/R	—
5	B/R	—
6	L	—
7	R	—
8	G	—
9	SB	—
10	P	—
11	SB	—
12	P	—
13	SB	—
14	P	—
15	O	—
16	O	—

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/W	—
2	P	—
3	R	—
4	B	—

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BCM (BODY CONTROL MODULE)

Connector No.	M89
Connector Name	A/C AMP
Connector Type	TH46FW-MH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	BATTERY POWER SUPPLY
2	G	IGNITION POWER SUPPLY
4	SB	DOOR MOTOR POWER SUPPLY
5	BR	LAN SIGNAL
7	Y	REAR WINDOW DEFOGGER F/R SIGNAL
8	R/L	ILLUMINATION POWER SUPPLY
9	V	ACC POWER SUPPLY
10	W	FRONT BLOWER MOTOR CONTROL SIGNAL
12	BR	BLOWER FAN ON SIGNAL
13	O	A/C ON SIGNAL
17	L	ENGINE COOLANT TEMPERATURE SIGNAL
21	B/W	GROUND
23	B/W	GROUND
27	W	REAR WINDOW DEFOGGER ON SIGNAL
28	B/R	ILLUMINATION GROUND
29	B/R	REAR BLOWER MOTOR CONTROL SIGNAL
32	BR	COMM (R/R A/C CONT.-A/C AUTO AMP)
33	SB	COMM (R/R A/C CONT.-A/C AUTO AMP)
37	GR	INTAKE SENSOR SIGNAL
40	Y	SENSOR GROUND

Connector No.	M50
Connector Name	A/C AUTO AMP
Connector Type	TH46FW-MH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	BATTERY POWER SUPPLY
2	G	IGNITION POWER SUPPLY
4	SB	DOOR MOTOR POWER SUPPLY
5	BR	LAN SIGNAL
7	Y	REAR WINDOW DEFOGGER F/R SIGNAL
8	R/L	ILLUMINATION POWER SUPPLY
9	V	ACC POWER SUPPLY
10	W	FRONT BLOWER MOTOR CONTROL SIGNAL
12	BR	BLOWER FAN ON SIGNAL
13	O	A/C ON SIGNAL
15	GR	IONIZER ON/OFF CONTROL SIGNAL
17	L	ENGINE COOLANT TEMPERATURE SIGNAL
18	L	SUNLOAD SENSOR SIGNAL
19	O	FRONT IN-VEHICLE SENSOR SIGNAL
20	B/W	A/C AUTO AMP CONNECTION RESOLUTION SIGNAL
21	B/W	GROUND
24	SB	VEHICLE SPEED SIGNAL
27	W	REAR WINDOW DEFOGGER ON SIGNAL
28	B/R	ILLUMINATION GROUND
30	R	REAR BLOWER MOTOR CONTROL SIGNAL
32	BR	COMM (A/C AUTO AMP.-R/R A/C CONT)
33	SB	COMM (R/R A/C CONT.-A/C AUTO AMP)
38	G	EXH (LHS) OUTSIDE DOOR DETECTING SENSOR SIGNAL
37	GR	INTAKE SENSOR SIGNAL
38	P	REAR IN-VEHICLE SENSOR SIGNAL
39	LG	AMBIENT SENSOR SIGNAL
40	Y	SENSOR GROUND

Connector No.	M57
Connector Name	O/VT SHIFT SELECTOR
Connector Type	TH12FW-MH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	BC	-
6	B	-
7	B	-
8	L	-
9	G	-

Connector No.	M58
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	INH5FY-EX



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	IGN
2	B/R	GROUND
3	G	DR1 (+)
4	Y	DR1 (-) DR2 (-)
5	V	DR 2 (+)
6	SB	AST (+)
7	BR	AST (-)
8	O	AS 2 (+)
9	O	AS 2 (-)
18	W/L	EGS2 (+)
19	W/R	EGS2 (-)
22	GR	GROUND
23	BR	AIRBAG W/L
24	BR	SEAT BELT W/L

25	LG	OUTOFF TELL TALE
31	BC	SELECTIVE UNLOCK RELAY
33	L/R	SIDE SENS L/R2
33	L/R	SIDE SENS L/R2
54	L/G	SIDE SENS L/R2
57	O	DEPLOYMENT INFORMATION OUTPUT
59	L	CAN-H
60	P	CAN-L

Connector No.	M91
Connector Name	SELECTIVE UNLOCK RELAY
Connector Type	MSS5PB-MZ-LG



Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	-
2	V	-
3	W	-
4	B	-
5	O	-

Connector No.	M101
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FER



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/W	-
2	G	-
3	P	-
4	V	-
5	SB	-

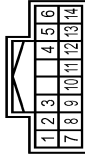
JRMWE3326GB



BCM (BODY CONTROL MODULE)

Connector No.	M103
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH

Terminal No.	1	2	3	4	5	6
Color	GR	Y	O	GR	Y	O
Wire	1	2	3	4	5	6
Signal Name [Specification]	RR [With automatic drive positioner]	RR [Without automatic drive positioner]	FR [With automatic drive positioner]	FR [Without automatic drive positioner]	IGN	GROUND [With automatic drive positioner] GROUND [Without automatic drive positioner]



Connector No.	M105
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	FR02FL

Terminal No.	1	2
Color	GR	BR
Wire	1	2
Signal Name [Specification]	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION



Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Color	G	R	Y	W	O	B	Y	R	L	W	R	L	Y	G
Wire	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Signal Name [Specification]	RR [With automatic drive positioner]	RR [Without automatic drive positioner]	FR [With automatic drive positioner]	FR [Without automatic drive positioner]	IGN	GROUND [With automatic drive positioner]	GROUND [Without automatic drive positioner]	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4	OUTPUT 1	OUTPUT 5	OUTPUT 2

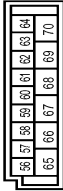
Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH4QFB-NH

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Color	W	LG	Y	O	G	L	W	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR
Wire	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Signal Name [Specification]	REAR WINDOW DEF RELAY CONT	COMBI SW INPUT 5	COMBI SW INPUT 4	COMBI SW INPUT 3	COMBI SW INPUT 2	COMBI SW INPUT 1	KEY CYL UNLOCK SW	PW SW COMM [With automatic sliding door]	KEY CYL LOCK SW [Without automatic sliding door]	STOP LAMP SW 1	STOP LAMP SW 2	DOOR LK & UNLK SW UNLOCK	DOOR LK & UNLK SW UNLOCK	OPTICAL SENS	REAR WINDOW DEF SW	DIMMER	SENS PWR SPLY	SENS/SENS OND	RECEIV/SENS OND	NATS ANT AMP	NATS ANT AMP



Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FH46-SA

Terminal No.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
Color	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
Wire	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Signal Name [Specification]	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION



Terminal No.	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Color	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
Wire	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Signal Name [Specification]	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION	REAR WIRELESS STOP POSITION



Connector No.	M124
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH16FW-NH

Terminal No.	71	72	73	74	75	76	77	78	79
Color	Y	SB	SB	SB	SB	SB	SB	SB	SB
Wire	1	2	3	4	5	6	7	8	9
Signal Name [Specification]	ON IND	DR DOOR REC SW	PUSH SW	DR DOOR ANT+	DR DOOR ANT-	DR DOOR REC SW	PUSH SW	DR DOOR ANT+	DR DOOR ANT-



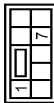


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BCM (BODY CONTROL MODULE)

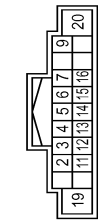
80	R	PASS DOOR ANT+
81	L	PASS DOOR ANT-
82	G	REAR DOOR ANT+
83	G	REAR DOOR ANT-
84	Y	ROOM ANT+
85	BR	ROOM ANT-
86	LG	ROOM ANT2+
87	V	ROOM ANT2-
88	W	LAGGAGE ROOM ANT+
89	B	LAGGAGE ROOM ANT-
90	P	PUSH-BTN IGN SW ILL PWR SPLY
91	SB	LOCK IND
92	G	PUSH-BTN IGN SW ILL GND
93	R	THEY WARN BUZZER
96	BR	ACC RELAY CONT OUTPUT
97	BR	IGN RELAY (B) CONT
98	LG	IGN RELAY (B) CONT OUTPUT
99	GR	PASS DOOR REQ SW
100	GR	IGN PWR SPLY Z
101	BR	P/N POSITION
102	Y	CVT SHFT SELECT PWR SRLY
104	L	STOP LAMP SW Z
105	GR	BLWR RELAY CONT OUTPUT
106	O	ACC IND
109	GR	ACC IND

Connector No.	MI30
Connector Name	DOUBLE UNIT
Connector Type	MS05FR-CS



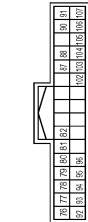
Terminal No.	1	2	7
Color Of Wire	B/W	—	—
Signal Name [Specification]	GROUND	—	INTERFACE

Connector No.	MI71
Connector Name	AV CONTROL UNIT
Connector Type	TH18FW-GS2



Terminal No.	1	2	3	4	5	6	7	9	11	12	13	14	15	16	18	19	20
Color Of Wire	—	R	V	V	P	L	O	O	W	B	BR	Y	GR	P	P	SB	B
Signal Name [Specification]	—	SOUND SIGNAL FRONT SPEAKER LH (+)	SOUND SIGNAL FRONT SPEAKER RH (+)	SOUND SIGNAL SLIDE DOOR SPEAKER LH (+)	SOUND SIGNAL SLIDE DOOR SPEAKER RH (+)	STRG SW A	ACC	DIMMER SIGNAL	SOUND SIGNAL FRONT SPEAKER RH (+)	SOUND SIGNAL FRONT SPEAKER LH (-)	SOUND SIGNAL SLIDE DOOR SPEAKER RH (-)	SOUND SIGNAL SLIDE DOOR SPEAKER LH (-)	STRG SW B	STRG SW B	BATTERY	GROUND	

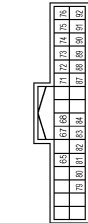
Connector No.	MI74
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Color Of Wire	—	LG	V	LG	V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Signal Name [Specification]	—	AV COMM (L)	AV COMM (H)	AV COMM (L)	AV COMM (H)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

51	L	GAIN-H
52	W	SOFT
53	R	SOUND SIGNAL (+)
56	W	SOUND SIGNAL (-)
80	BR	HEADPHONE SOUND SIGNAL RH (+)
91	Y	VEHICLE SPEED SIGNAL (8-PULSE)
92	Y	VEHICLE SPEED SIGNAL (8-PULSE)
93	W	PARKING BRAKE
94	BR	REVERSE
95	G	IGNITION
96	BR	DISK EJECT SIGNAL
102	W	AUX SOUND SIGNAL GND
104	R	AUX SOUND SIGNAL RH (+)
105	GR	SHIELD
106	GR	HEADPHONE SOUND SIGNAL LH (+)
107	P	HEADPHONE SOUND SIGNAL LH (-)
107	L	HEADPHONE SOUND SIGNAL LH (-)

Connector No.	MI80
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	65	67	68	71	72	73	74	75	76	79	81	82	83	84	87	88
Color Of Wire	W	W	R	SHIELD	Y	G	P	LG	LG	O	BR	Y	SHIELD	B	BR	SHIELD
Signal Name [Specification]	—	PARKING BRAKE	COMPOSITE IMAGE SIGNAL GND	COMPOSITE IMAGE SIGNAL	SHIELD	MICROPHONE VCC	COMM CONT-DISP	CAN-L	AV COMM (L)	DIMMER SIGNAL	REVERSE	VEHICLE SPEED SIGNAL (8-PULSE)	SHIELD	COMPOSITE IMAGE SYNC	MICROPHONE SIGNAL	SHIELD

89	R	COMM (DISP-CONT)
90	L	AV COMM (H)
91	SB	AV COMM (H)
92	Y	AV COMM (H)

Connector No.	RI10
Connector Name	VANITY MIRROR LAMP RH
Connector Type	MCA02FW



Terminal No.	1	2
Color Of Wire	P	B
Signal Name [Specification]	—	—

Connector No.	RI17
Connector Name	SECOND PERSONAL LAMP RH
Connector Type	TR03FW



Terminal No.	1	2	3
Color Of Wire	P	O	B
Signal Name [Specification]	—	—	—



BCM (BODY CONTROL MODULE)

Connector No.	R18
Connector Name	SECOND PERSONAL LAMP LH
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	G	-
3	B	-

Connector No.	R24
Connector Name	VANITY MIRROR LAMP LH
Connector Type	MCA02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	B	-

Connector No.	R27
Connector Name	THIRD PERSONAL LAMP RH
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	B	-

Connector No.	R28
Connector Name	THIRD PERSONAL LAMP LH
Connector Type	TK03FW



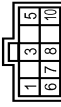
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	O	-
3	B	-

Connector No.	R31
Connector Name	FRONT SUNROOF MOTOR ASSEMBLY
Connector Type	YEAU0FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
3	R	IGN/TIMER
5	LG	OPENS/WBT-4
6	L	BAT
8	Y	VEHICLE SPEED (P-PULSE)
10	W	CLOSES/WBT-1

Connector No.	R32
Connector Name	REAR SUNROOF MOTOR ASSEMBLY
Connector Type	YEAU0FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
3	R	IGN/TIMER
5	P	OPEN SWMAP
6	L	BAT
7	W	COM
8	Y	VEHICLE SPEED (P-PULSE)
10	G	CLOSE SWMAP

Connector No.	R108
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	THR09FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	BAT
2	W	SIGNAL
4	O	GROUND

Connector No.	R109
Connector Name	MAP LAMP
Connector Type	THR09FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	V	-
3	R	-
4	B	-
5	LG	-
6	L	-

# 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:000000009651715

##### BEFORE REPLACEMENT

When replacing BCM, save or print current vehicle specification with CONSULT configuration before replacement.

##### NOTE:

If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing BCM.

##### AFTER REPLACEMENT

##### CAUTION:

When replacing BCM, always perform "WRITE CONFIGURATION" with CONSULT. Or not doing so, BCM control function does not operate normally.

- Complete the procedure of "WRITE CONFIGURATION" in order.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- If you set incorrect "WRITE CONFIGURATION", incidents might occur.

##### NOTE:

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

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

INFOID:000000009651716

#### 1. SAVING VEHICLE SPECIFICATION

##### CONSULT Configuration

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to [BCS-84, "CONFIGURATION \(BCM\) : Description"](#).

##### NOTE:

If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing BCM.

>> GO TO 2.

#### 2. REPLACE BCM

Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

>> GO TO 3.

#### 3. WRITING VEHICLE SPECIFICATION

##### CONSULT Configuration

Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to [BCS-84, "CONFIGURATION \(BCM\) : Work Procedure"](#).

>> GO TO 4.

#### 4. INITIALIZE BCM (NATS) (IF EQUIPPED)

Perform BCM initialization. (NATS)

>> WORK END

#### CONFIGURATION (BCM)

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BCS

# INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

## CONFIGURATION (BCM) : Description

INFOID:000000009651717

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

Function	Description
READ CONFIGURATION	<ul style="list-style-type: none"><li>• Reads the vehicle configuration of current BCM.</li><li>• Saves the read vehicle configuration.</li></ul>
WRITE CONFIGURATION - Manual selection	Writes the vehicle configuration with manual selection.
WRITE CONFIGURATION - Config file	Writes the vehicle configuration with saved data.

### NOTE:

Manual setting item: Items which need selection by vehicle specifications

Automatic setting item: Items which are written in automatically (Setting can not be changed)

For some models and specifications, the automatic setting item may not be displayed.

### CAUTION:

**When replacing BCM, always perform "WRITE CONFIGURATION" with CONSULT. Or not doing so, BCM control function does not operate normally.**

- Complete the procedure of "WRITE CONFIGURATION" in order.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- Never perform "WRITE CONFIGURATION" except for new BCM.
- If you set incorrect "WRITE CONFIGURATION", incidents might occur.

## CONFIGURATION (BCM) : Work Procedure

INFOID:000000009651718

### 1. WRITING MODE SELECTION

ⓅCONSULT Configuration

Select "CONFIGURATION" of BCM.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

### 2. PERFORM "WRITE CONFIGURATION - CONFIG FILE"

ⓅCONSULT Configuration

Perform "WRITE CONFIGURATION - Config file".

>> WORK END

### 3. PERFORM "WRITE CONFIGURATION - MANUAL SELECTION"

ⓅCONSULT Configuration

1. Select "WRITE CONFIGURATION - Manual selection".
2. Identify the correct model and configuration list. Refer to [BCS-85. "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.**

#### NOTE:

If items are not displayed, touch "SETTING". Refer to [BCS-85. "CONFIGURATION \(BCM\) : Configuration list"](#) for written items and setting value.

4. Select "SETTING".

#### CAUTION:

**Make sure to select "SETTING" 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 can not be memorized.**

5. When "COMMAND FINISHED", select "END".

>> GO TO 4.

# INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

## 4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> WORK END

### CONFIGURATION (BCM) : Configuration list

INFOID:000000009651719

#### **CAUTION:**

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

SETTING ITEM		NOTE
Items	Setting value	
CAN CONNECTION UNIT	WITHOUT ⇔ MODE13 ⇔ MODE15	<ul style="list-style-type: none"><li>• WITHOUT: Without automatic sliding door system and automatic back door system</li><li>• MODE13: With automatic sliding door system and automatic back door system</li><li>• MODE15: With automatic sliding door system, and without automatic back door system</li></ul>
AUTO LIGHT	WITH ⇔ WITHOUT	—
DTRL	WITH ⇔ WITHOUT	<ul style="list-style-type: none"><li>• WITH: With daytime running light system</li><li>• WITHOUT: Without daytime running light system</li></ul>

⇔: Items which confirm vehicle specifications

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# SHIPPING MODE CANCEL OPERATION

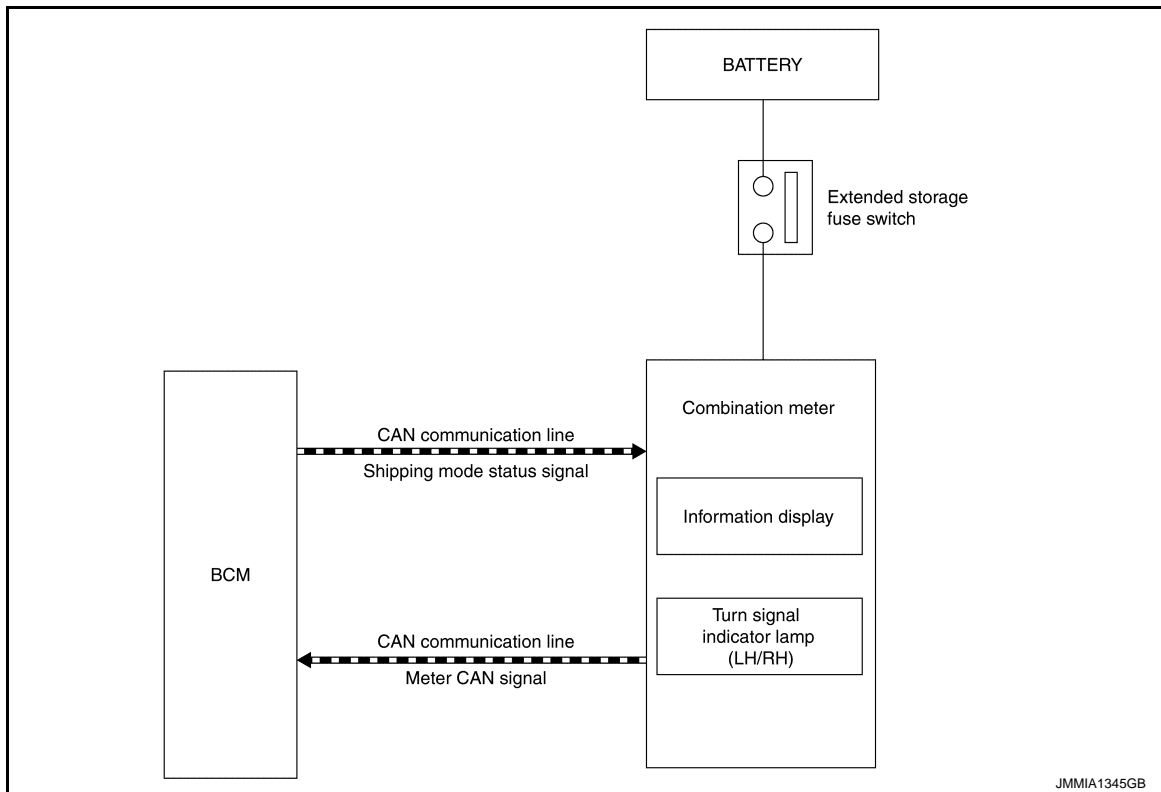
< BASIC INSPECTION >

## SHIPPING MODE CANCEL OPERATION

### Description

INFOID:000000010012595

### SYSTEM DIAGRAM



### DESCRIPTION

- The combination meter transmits meter CAN signal\*<sup>1</sup> to BCM via CAN communication, when the extended storage fuse switch is ON.
- BCM switches the status (shipping mode or normal mode) by itself according to the meter CAN signal\*<sup>1</sup> from combination meter, and transmits shipping mode status signal to combination meter via CAN communication.
- The combination meter displays extended storage fuse warning message\*<sup>2</sup> on the information display, and turns the turn signal indicator lamp (LH/RH) ON, when BCM is in shipping mode.
- BCM control functions are limited in shipping mode. Refer to [BCS-97. "Description"](#).

\*1: Odometer signal, wake up signal and each signal.

\*2: When shipping mode function operates, "SHIPPING MODE ON PUSH STORAGE FUSE" is displayed.

### Work Procedure

INFOID:000000010012596

#### 1. SHIPPING MODE CANCEL OPERATION

1. Turn ignition switch OFF.
2. Push in (switch on) the extended storage fuse switch. Refer to [PG-100. "How To Check"](#).
3. Turn ignition switch ON.
4. Turn ignition switch OFF and wait at least 2 seconds.

>> GO TO 2.

#### 2. SHIPPING MODE CANCEL CHECK

1. Turn ignition switch ON.
2. Check that extended storage fuse warning message is not displayed on odometer display.

>> WORK END

# U1000 CAN COMM

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM

#### Description

INFOID:000000009651722

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 [LAN-32, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart"](#).

#### DTC Logic

INFOID:000000009651723

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible cause
U1000	CAN COMM	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

#### Diagnosis Procedure

INFOID:000000009651724

#### 1. PERFORM SELF DIAGNOSTIC

1. Turn ignition 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-42, "Intermittent Incident"](#).

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# U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

## U1010 CONTROL UNIT (CAN)

### DTC Logic

INFOID:000000009651725

### DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	BCM detected internal CAN communication circuit malfunction.	BCM

### Diagnosis Procedure

INFOID:000000009651726

#### 1. REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to [BCS-98. "Removal and Installation"](#).



# U0415 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

## U0415 VEHICLE SPEED

### Description

INFOID:000000009651727

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

INFOID:000000009651728

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Probable cause
U0415	VEHICLE SPEED	When the vehicle speed signal received from the ABS actuator and electric unit (control unit) remains abnormal for 2 seconds or more.	<ul style="list-style-type: none"><li>• ABS actuator and electric unit (control unit)</li><li>• BCM</li></ul>

### DTC CONFIRMATION PROCEDURE

#### 1. DTC CONFIRMATION

1. Erase the DTC.
2. Turn ignition switch OFF.
3. Perform the "Self Diagnostic Result" of BCM with CONSULT, when passed 2 seconds or more after the ignition switch is turned ON.

#### Is any DTC detected?

- YES >> Refer to [BCS-89, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000009651729

#### 1. ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF-DIAG RESULTS

Perform "Self-Diagnostic Result" of ABS actuator and electric unit (control unit) with CONSULT. Refer to [BRC-38, "DTC Index"](#).

#### Is any DTC detected?

- YES >> Repair or replace the malfunctioning part.  
NO >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

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# B2562 LOW VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

## B2562 LOW VOLTAGE

### DTC Logic

INFOID:000000009651730

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible cause
B2562	LOW VOLTAGE	When the 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 ignition switch OFF.
3. Perform the "Self Diagnostic Result" of BCM with CONSULT, when passed 120 seconds or more after the ignition switch is turned ON.

#### Is any DTC detected?

- YES >> Refer to [BCS-90, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000009651731

#### 1. CHECK POWER SUPPLY CIRCUIT

Check BCM power supply circuit. Refer to [BCS-91, "Diagnosis Procedure"](#).

#### Is the circuit normal?

- YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).  
NO >> Repair the malfunctioning part.

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## POWER SUPPLY AND GROUND CIRCUIT

### Diagnosis Procedure

INFOID:000000009651732

#### 1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.
Battery power supply	L
	10

#### Is the fuse fusing?

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

NO >> GO TO 2.

#### 2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.
3. Check voltage between BCM harness connector and ground.

Terminals		Voltage (Approx.)
(+)	(-)	
BCM		Ground  Battery voltage
Connector	Terminal	
M123	70	
	57	

#### Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

#### 3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	67		Existed

#### Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

# COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## COMBINATION SWITCH OUTPUT CIRCUIT

### Diagnosis Procedure

INFOID:000000009651733

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

1. Turn ignition switch OFF.
2. Disconnect BCM and combination switch connectors.
3. Check continuity between BCM harness connector and combination switch harness connector.

System	BCM		Combination switch		Continuity
	Connector	Terminal	Connector	Terminal	
OUTPUT 1	M121	36	M103	11	Existed
OUTPUT 2		35		9	
OUTPUT 3		34		7	
OUTPUT 4		33		10	
OUTPUT 5		32		13	

Does continuity exist?

YES >> GO TO 2.

NO >> Repair harnesses or connectors.

#### 2. CHECK OUTPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

System	BCM		Ground	Continuity
	Connector	Terminal		
OUTPUT 1	M121	36	Ground	Not existed
OUTPUT 2		35		
OUTPUT 3		34		
OUTPUT 4		33		
OUTPUT 5		32		

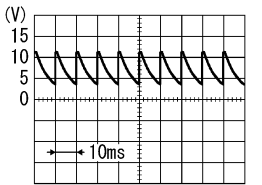
Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> GO TO 3.

#### 3. CHECK BCM OUTPUT VOLTAGE

1. Connect BCM connector.
2. Check voltage between BCM harness connector and ground.

System	Terminals		Ground	Voltage (Approx.)	
	(+)				(-)
	BCM				
	Connector	Terminal			
OUTPUT 1	M121	36	Ground		
OUTPUT 2		35			
OUTPUT 3		34			
OUTPUT 4		33			
OUTPUT 5		32			

Is the measurement value normal?

# COMBINATION SWITCH OUTPUT CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

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YES >> Replace combination switch.

NO >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

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# COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## COMBINATION SWITCH INPUT CIRCUIT

### Diagnosis Procedure

INFOID:000000009651734

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

1. Turn ignition switch OFF.
2. Disconnect BCM and combination switch connectors.
3. Check continuity between BCM harness connector and combination switch harness connector.

System	BCM		Combination switch		Continuity
	Connector	Terminal	Connector	Terminal	
INPUT 1	M121	6	M103	12	Existed
INPUT 2		5		14	
INPUT 3		4		5	
INPUT 4		3		2	
INPUT 5		2		8	

Does continuity exist?

YES >> GO TO 2.

NO >> Repair harnesses or connectors.

#### 2. CHECK INPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

System	BCM		Ground	Continuity
	Connector	Terminal		
INPUT 1	M121	6	Ground	Not existed
INPUT 2		5		
INPUT 3		4		
INPUT 4		3		
INPUT 5		2		

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> GO TO 3.

#### 3. CHECK BCM INPUT SIGNAL

1. Connect BCM and combination switch connectors.
2. Turn ON any switch in the system that is malfunction.
3. Check voltage between BCM harness connector and ground.

System	Terminals		Voltage (Approx.)
	(+)	(-)	
	BCM		
	Connector	Terminal	
INPUT 1	M121	6	Ground
INPUT 2		5	
INPUT 3		4	
INPUT 4		3	
INPUT 5		2	

Is the measurement value normal?

Yes >> Replace BCM. Refer to [BCS-98. "Removal and Installation"](#).

# COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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No >> Replace combination switch.

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# COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### COMBINATION SWITCH SYSTEM SYMPTOMS

#### Symptom Table

INFOID:000000009651735

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

Malfunction item: ×

Data monitor item																	Malfunction combination
FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	RR WIPER ON	RR WIPER INT	RR WASHER SW	INT VOLUME	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	
	×	×						×	×								A
×			×									×		×			B
						×	×				×		×				C
					×		×			×					×		D
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All Items																	K
If only one item is detected or the item is not applicable to the combinations A to K																	L

3. Identify the malfunctioning part from the agreed combination and repair or replace the part.

Malfunction combination	Malfunctioning part	Repair or replace
A	Combination switch OUTPUT 1 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to <a href="#">BCS-92, "Diagnosis Procedure"</a> .
B	Combination switch OUTPUT 2 circuit	
C	Combination switch OUTPUT 3 circuit	
D	Combination switch OUTPUT 4 circuit	
E	Combination switch OUTPUT 5 circuit	
F	Combination switch INPUT 1 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to <a href="#">BCS-94, "Diagnosis Procedure"</a> .
G	Combination switch INPUT 2 circuit	
H	Combination switch INPUT 3 circuit	
I	Combination switch INPUT 4 circuit	
J	Combination switch INPUT 5 circuit	
K	BCM	Replace BCM. Refer to <a href="#">BCS-98, "Removal and Installation"</a> .
L	Combination switch	Replace combination switch.



# NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

## NORMAL OPERATING CONDITION

### Description

INFOID:000000010012597

#### SHIPPING MODE

- Shipping mode inhibits battery power consumption during transportation or storage of the vehicle. Vehicle is set to shipping mode before being shipped from the factory.
- When ignition switch is OFF, BCM operates shipping mode.
- BCM control functions are limited in shipping mode. The limited items that are not operated during the shipping mode are as follows.
  - Door lock and unlock switch function
  - Remote keyless entry function
  - Theft warning alarm function
  - Lighting & turn signal switch function
  - Interior room lamp timer control function
- For shipping mode cancel operation, refer to [BCS-86, "Description"](#).

#### NOTE:

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

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# BCM

< REMOVAL AND INSTALLATION >

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## REMOVAL AND INSTALLATION

### BCM

#### Removal and Installation

INFOID:000000009651737

**NOTE:**

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to [BCS-83. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\) : Description"](#).

#### REMOVAL

1. Remove combination meter. Refer to [MWI-93. "Removal and Installation"](#).
2. Remove bolts.
3. Remove BCM and disconnect the connectors.

#### INSTALLATION

Install in the reverse order of removal.

**CAUTION:**

**Be sure to perform "WRITE CONFIGURATION" when replacing BCM. Or not doing so, BCM control function does not operate normally.**

**NOTE:**

Be sure to perform the system initialization (NATS) when replacing BCM. Refer to [BCS-83. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\) : Work Procedure"](#).

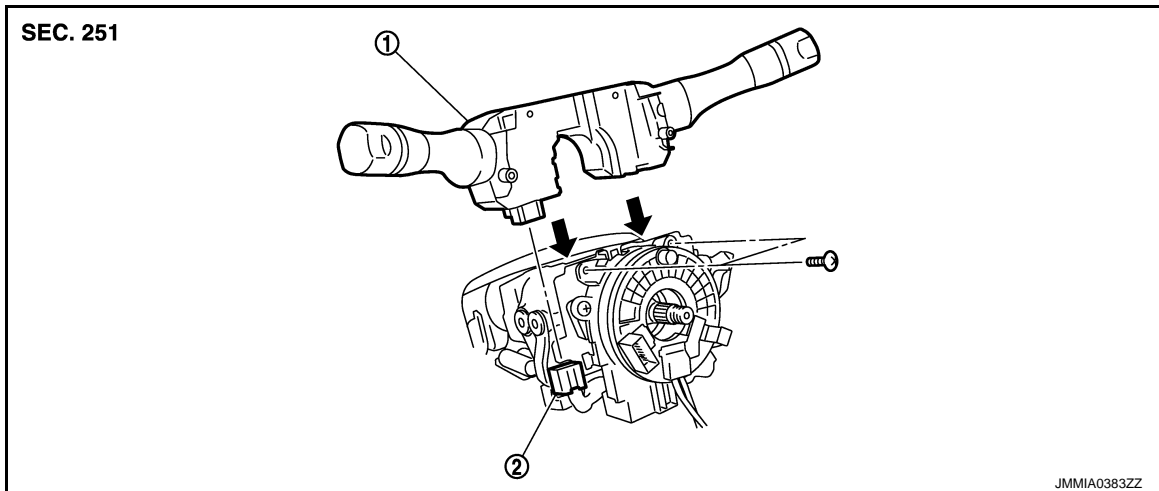
# COMBINATION SWITCH

< REMOVAL AND INSTALLATION >

## COMBINATION SWITCH

Exploded View

INFOID:000000009651738



1. Combination switch

2. Combination switch connector

## Removal and Installation

INFOID:000000009651739

### REMOVAL

1. Remove steering column cover. Refer to [IP-14. "Removal and Installation"](#).
2. Remove screws.
3. Disconnect the connector.
4. Pull up the combination switch to remove it.

### INSTALLATION

Install in the reverse order of removal.

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