

SECTION

BCS

BODY CONTROL SYSTEM

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# PRECAUTIONS

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## PRECAUTION

### PRECAUTIONS

#### Precautions for Removing Battery Terminal

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- With the adoption of Auto ACC function, ACC power is automatically supplied by operating the intelligent key or remote keyless entry or by opening/closing the driver side door. In addition, ACC power is supplied even after the ignition switch is turned to the OFF position, i.e. ACC power is supplied for a certain fixed time.
- When disconnecting the 12V battery terminal, turn off the ACC power before disconnecting the 12V battery terminal, observing "How to disconnect 12V battery terminal" described below.

#### NOTE:

Some ECUs operate for a certain fixed time even after ignition switch is turned OFF and ignition power supply is stopped. If the battery terminal is disconnected before ECU stops, accidental DTC detection or ECU data damage 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.

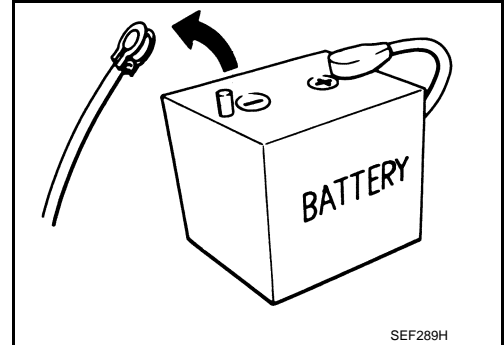
#### NOTE:

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.



#### HOW TO DISCONNECT 12V BATTERY TERMINAL

Disconnect 12V battery terminal according to Instruction 1 or Instruction 2 described below.

For vehicles parked by ignition switch OFF, refer to Instruction 2.

#### INSTRUCTION 1

1. Open the hood.
2. Turn key switch to the OFF position with the driver side door opened.
3. Get out of the vehicle and close the driver side door.
4. Wait at least 3 minutes. For vehicle with the engine listed below, remove the battery terminal after a lapse of the specified time.

D4D engine	: 20 minutes
HRA2DDT	: 12 minutes
K9K engine	: 4 minutes
M9R engine	: 4 minutes
R9M engine	: 4 minutes
V9X engine	: 4 minutes

#### CAUTION:

**While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.**

5. Remove 12V battery terminal.

#### CAUTION:

**After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.**

#### INSTRUCTION 2 (FOR VEHICLES PARKED BY IGNITION SWITCH OFF)

1. Unlock the door with intelligent key or remote keyless entry.

#### NOTE:

At this moment, ACC power is supplied.

2. Open the driver side door.
3. Open the hood.
4. Close the driver side door.
5. Wait at least 3 minutes.

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## PRECAUTIONS

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#### **CAUTION:**

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

6. Remove 12V battery terminal.

#### **CAUTION:**

After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

### 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. 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.

### Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

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#### **CAUTION:**

Comply with the following cautions to prevent any error and malfunction.

- Before removing and installing any control units, first turn the ignition power source and accessory power source to the OFF, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

### OPERATION PROCEDURE

1. Connect both battery cables.

#### **NOTE:**

Supply power using jumper cables if battery is discharged.

2. Open driver door.
3. Turn the ignition switch to the ON position.  
(At this time, the steering lock will be released.)
4. Turn the ignition switch to OFF position with driver door open.

## PRECAUTIONS

### < PRECAUTION >

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5. Wait for 3 minutes or longer with driver door open.

**NOTE:**

- Do not close driver door because the steering wheel locks when driver door is closed.
- The auto acc function is adapted to this vehicle. For this reason, even when the ignition switch is turned to OFF position, the accessory power source does not turned OFF and continues to be supplied for a certain amount of time.

6. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.

7. Perform the necessary repair operation.

8. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from OFF position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)

9. Perform self-diagnosis check of all control units using CONSULT.

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## COMPONENT PARTS

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### SYSTEM DESCRIPTION

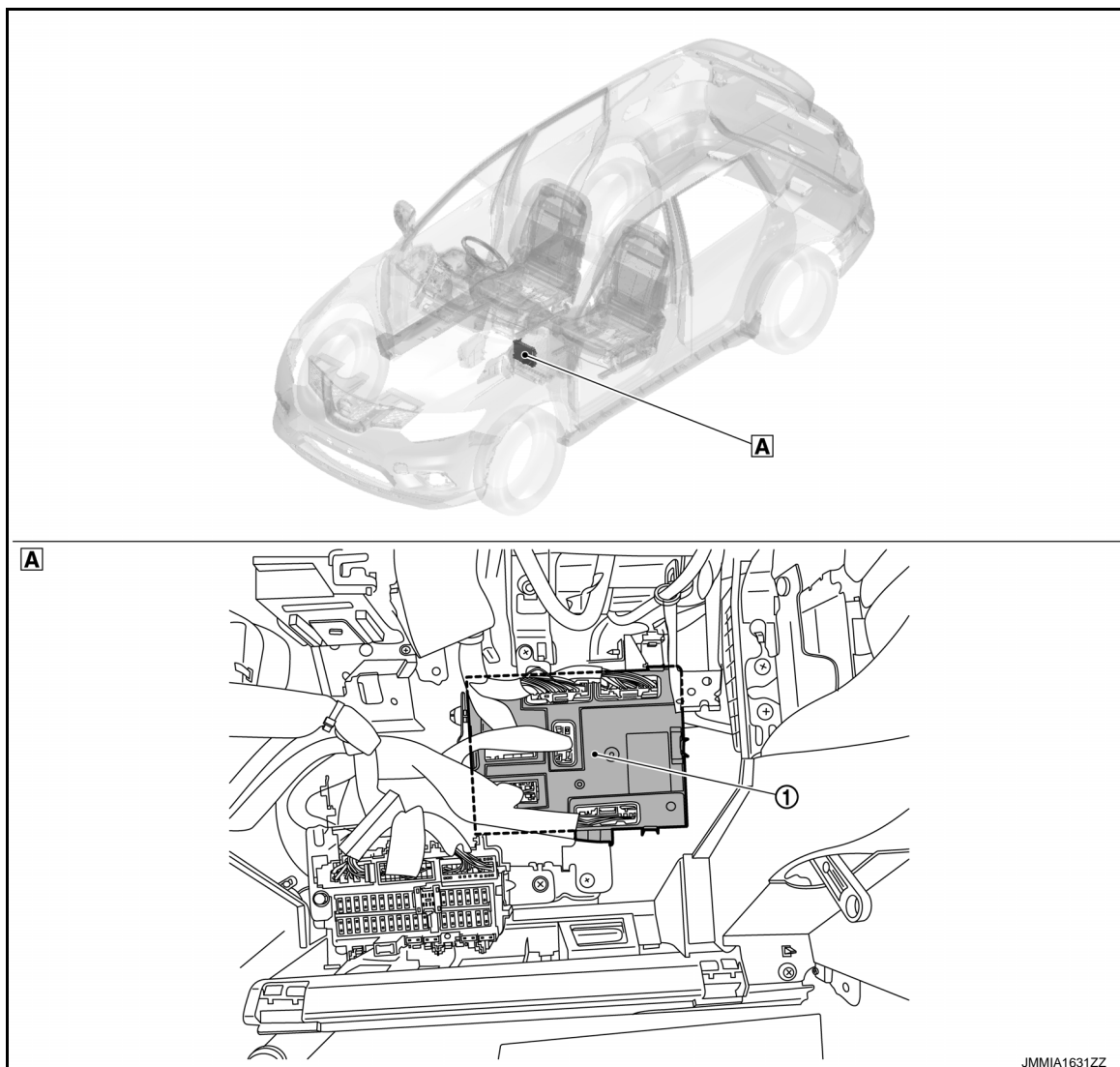
#### COMPONENT PARTS

#### BODY CONTROL SYSTEM

#### BODY CONTROL SYSTEM : Component Parts Location

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#### RHD MODELS



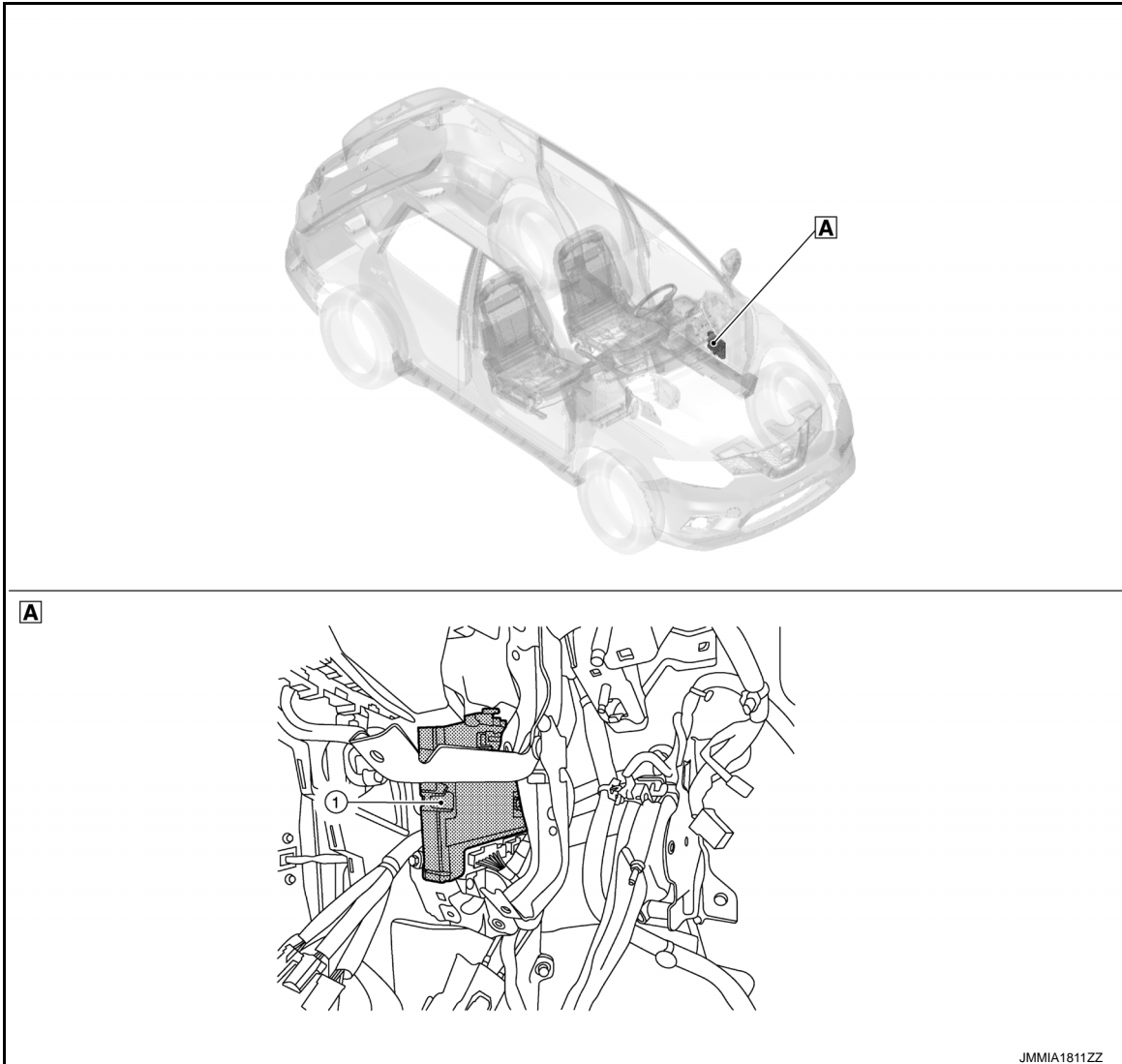
① BCM

A Behind of glove box

#### LHD MODELS

# COMPONENT PARTS

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① BCM

A Behind instrument panel (LH)

## POWER CONSUMPTION CONTROL SYSTEM

### POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location

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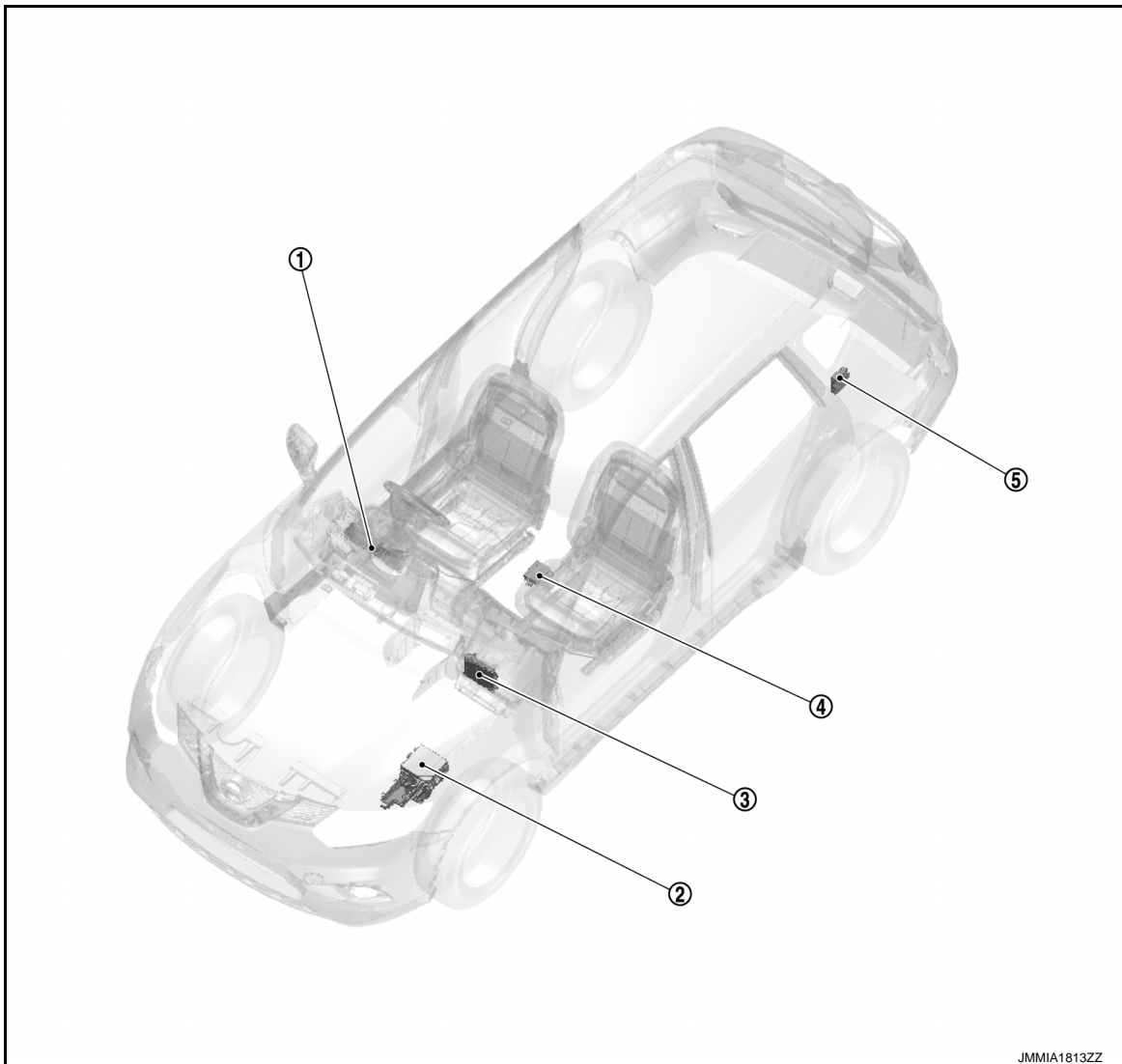
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## COMPONENT PARTS

< SYSTEM DESCRIPTION >



① Combination meter

② IPDM E/R  
Refer to [PCS-5, "Component Parts Location"](#).

③ BCM  
Refer to [BCS-6, "BODY CONTROL SYSTEM : Component Parts Location"](#).

④ Electric parking brake control module  
Refer to [PB-8, "Component Parts Location"](#).

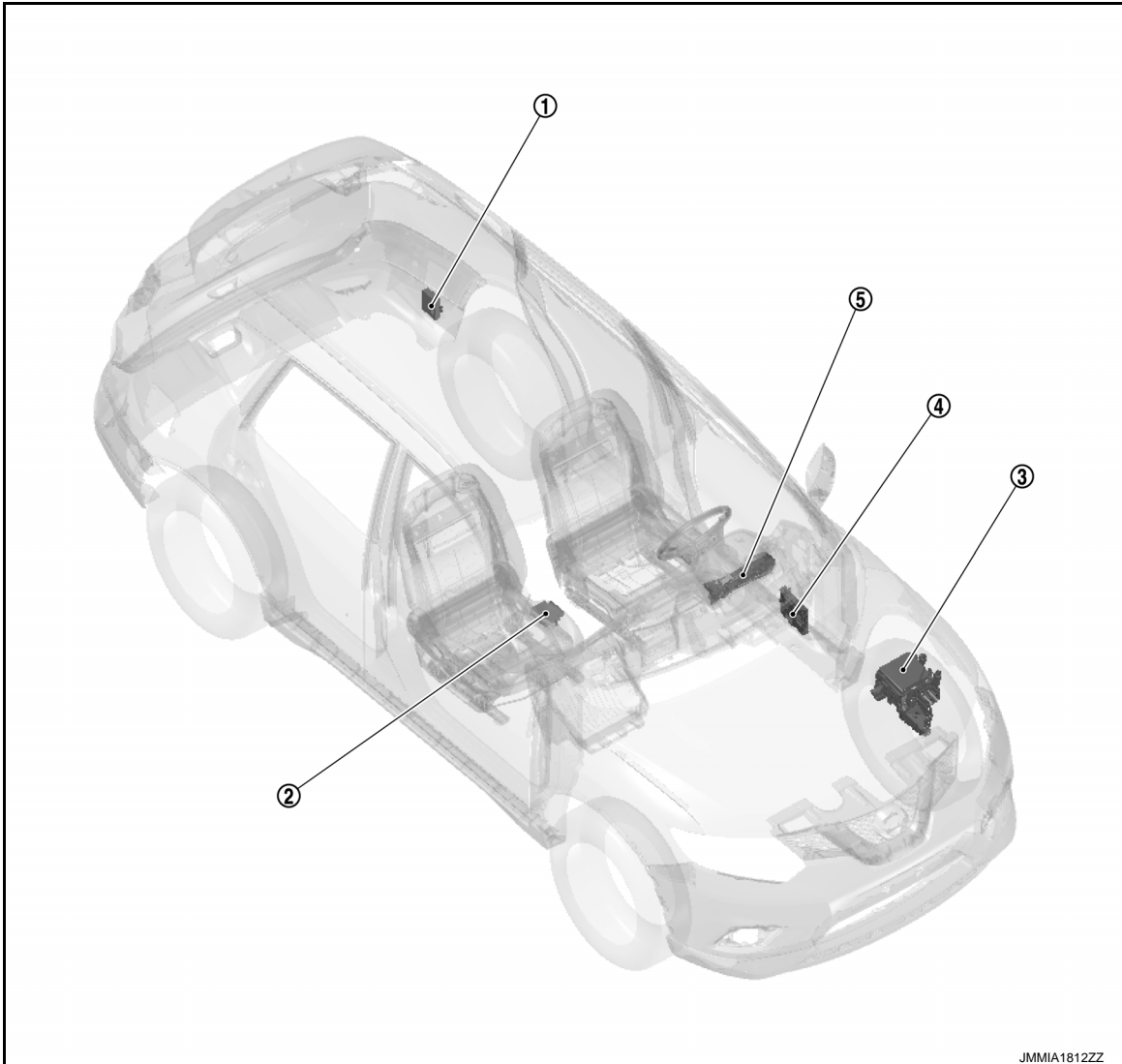
⑤ Automatic back door control module  
Refer to [DLK-25, "DOOR LOCK SYSTEM : Component Parts Location"](#) (With Intelligent Key and super lock) or [DLK-335, "DOOR LOCK SYSTEM : Component Parts Location"](#) (With Intelligent Key, without super lock)

LHD models



# COMPONENT PARTS

< SYSTEM DESCRIPTION >



- ① Automatic back door control module  
Refer to [DLK-25, "DOOR LOCK SYSTEM : Component Parts Location"](#) (With Intelligent Key and super lock) or [DLK-335, "DOOR LOCK SYSTEM : Component Parts Location"](#) (With Intelligent Key, without super lock)
- ② Electric parking brake control module  
Refer to [PB-8, "Component Parts Location"](#).
- ③ IPDM E/R  
Refer to [PCS-5, "Component Parts Location"](#).
- ④ BCM  
Refer to [BCS-6, "BODY CONTROL SYSTEM : Component Parts Location"](#).
- ⑤ Combination meter

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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-13, "COMBINATION SWITCH READING SYSTEM : System Description"</a>
Signal buffer system	<a href="#">BCS-17, "SIGNAL BUFFER SYSTEM : System Description"</a>
Power consumption control system	<a href="#">BCS-18, "POWER CONSUMPTION CONTROL SYSTEM : System Description"</a>
Shipping mode control system	<a href="#">BCS-20, "SHIPPING MODE CONTROL SYSTEM : System Description"</a>
Headlamp system	<ul style="list-style-type: none"><li>• <a href="#">EXL-21, "HEADLAMP SYSTEM : System Description"</a> (LED headlamp)</li><li>• <a href="#">EXL-225, "HEADLAMP SYSTEM : System Description"</a> (Halogen headlamp)</li></ul>
Auto light system	<ul style="list-style-type: none"><li>• <a href="#">EXL-24, "AUTO LIGHT SYSTEM : System Description"</a> (LED headlamp)</li><li>• <a href="#">EXL-228, "AUTO LIGHT SYSTEM : System Description"</a> (Halogen headlamp)</li></ul>
Daytime running light system	<ul style="list-style-type: none"><li>• <a href="#">EXL-30, "DAYTIME RUNNING LIGHT SYSTEM : System Description"</a> (LED headlamp)</li><li>• <a href="#">EXL-234, "DAYTIME RUNNING LIGHT SYSTEM : System Description"</a> (Halogen headlamp)</li></ul>
Turn signal and hazard warning lamp system	<ul style="list-style-type: none"><li>• <a href="#">EXL-36, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description"</a> (LED headlamp)</li><li>• <a href="#">EXL-236, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description"</a> (Halogen headlamp)</li></ul>
Parking, license plate and tail lamps system	<ul style="list-style-type: none"><li>• <a href="#">EXL-38, "PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM : System Description"</a> (LED headlamp)</li><li>• <a href="#">EXL-239, "PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM : System Description"</a> (Halogen headlamp)</li></ul>
Stop lamp system	<ul style="list-style-type: none"><li>• <a href="#">EXL-42, "STOP LAMP SYSTEM : System Description"</a> (LED headlamp)</li><li>• <a href="#">EXL-243, "STOP LAMP SYSTEM : System Description"</a> (Halogen headlamp)</li></ul>
Front fog lamp system	<ul style="list-style-type: none"><li>• <a href="#">EXL-44, "FRONT FOG LAMP SYSTEM : System Description"</a> (LED headlamp)</li><li>• <a href="#">EXL-245, "FRONT FOG LAMP SYSTEM : System Description"</a> (Halogen headlamp)</li></ul>
Rear fog lamp system	<ul style="list-style-type: none"><li>• <a href="#">EXL-46, "REAR FOG LAMP SYSTEM : System Description"</a> (LED headlamp)</li><li>• <a href="#">EXL-247, "REAR FOG LAMP SYSTEM : System Description"</a> (Halogen headlamp)</li></ul>

# SYSTEM

## < SYSTEM DESCRIPTION >

System	Reference
Exterior lamp battery saver system	<ul style="list-style-type: none"> <li>EXL-48, "EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description" (LED headlamp)</li> <li>EXL-249, "EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description" (Halogen headlamp)</li> </ul>
Interior room lamp control system	INL-11, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"
Interior room lamp battery saver system	INL-14, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description"
Illumination control system	INL-18, "ILLUMINATION CONTROL SYSTEM : System Description"
Front wiper and washer system	<ul style="list-style-type: none"> <li>WW-13, "FRONT WIPER AND WASHER SYSTEM (WITH LIGHT &amp; RAIN SENSOR) : System Description" (With rain sensor)</li> <li>WW-17, "FRONT WIPER AND WASHER SYSTEM (WITHOUT LIGHT &amp; RAIN SENSOR) : System Description" (Without rain sensor)</li> </ul>
Rear wiper and washer system	WW-21, "REAR WIPER AND WASHER SYSTEM : System Description"
Rear window defogger system	DEF-7, "System Description"
Warning chime system	WCS-8, "WARNING CHIME SYSTEM : System Description"
Power door lock system	<ul style="list-style-type: none"> <li>DLK-35, "System Description" (Type 1)</li> <li>DLK-345, "System Description" (Type 2)</li> <li>DLK-646, "System Description" (Type 3)</li> <li>DLK-797, "POWER DOOR LOCK SYSTEM : System Description" (Type 4)</li> </ul> <p><b>NOTE:</b> Refer to DLK-22, "Information" for details of type.</p>
Intelligent Key system	<ul style="list-style-type: none"> <li>DLK-38, "INTELLIGENT KEY SYSTEM : System Description" (Type 1)</li> <li>DLK-348, "INTELLIGENT KEY SYSTEM : System Description" (Type 2)</li> </ul> <p><b>NOTE:</b> Refer to DLK-22, "Information" for details of type.</p>
Remote keyless entry system	<ul style="list-style-type: none"> <li>DLK-649, "REMOTE KEYLESS ENTRY FUNCTION : System Description" (Type 3)</li> <li>DLK-800, "REMOTE KEYLESS ENTRY SYSTEM : System Description" (Type 4)</li> </ul> <p><b>NOTE:</b> Refer to DLK-22, "Information" for details of type.</p>
Back door opener system	<ul style="list-style-type: none"> <li>DLK-62, "System Description" (Type 1)</li> <li>DLK-371, "System Description" (Type 2)</li> <li>DLK-655, "System Description" (Type 3)</li> <li>DLK-803, "BACK DOOR OPENER SYSTEM : System Description" (Type 4)</li> </ul> <p><b>NOTE:</b> Refer to DLK-22, "Information" for details of type.</p>
Intelligent Key system/engine start system	SEC-15, "INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION : System Description"
Nissan Vehicle Immobilizer System-NATS	<ul style="list-style-type: none"> <li>SEC-25, "NISSAN ANTI-THEFT SYSTEM : System Description" (With Intelligent Key system)</li> <li>SEC-214, "NISSAN ANTI-THEFT SYSTEM : System Description" (Without Intelligent Key system)</li> </ul>
Vehicle security system	<ul style="list-style-type: none"> <li>SEC-34, "VEHICLE SECURITY SYSTEM : System Description" (With Intelligent Key system)</li> <li>SEC-217, "VEHICLE SECURITY SYSTEM : System Description" (Without Intelligent Key system)</li> </ul>
Power window system	PWC-12, "System Description"
CAN gateway	LAN-110, "System Description"

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### 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
B2190-00: CHAIN OF BCM-IMM ANT	Inhibit engine cranking
B2191-00: ID DISCORD, BCM-IMMANT	Inhibit engine cranking
B2192-00: ID DISCORD BCM-ECM	Inhibit engine cranking
B2193-00: CHAIN OF BCM-ECM	Inhibit engine cranking
B2195-00: ANTI-SCANNING	Inhibit engine cranking
B2196-00: DONGLE NG	Inhibit engine cranking
B2198-00: NATS ANTENNA AMP	Inhibit engine cranking
B2557-00: VEHICLE SPEED	Inhibit steering lock
B2602-00: SHIFT POSITION	Inhibit steering lock
B2604-00: PNP/CLUTCH SW	Inhibit steering lock
B2608-00: STARTER RELAY	Inhibit engine cranking
B260F-00: ENG STATE SIG LOST	Inhibit engine cranking
B26F1-00: IGN RELAY OFF	Inhibit engine cranking
B26F2-00: IGN RELAY ON	Inhibit engine cranking
B27D4-00: BCM - S/L SENSOR CIRCUIT	Inhibit steering unlock
B27D5-00: S/L SENSOR TEST OUTPUT	Inhibit steering unlock
B27D6-00: S/L CAN COMM CIRCUIT	Inhibit steering lock
B27D7-00: S/L PWR RELAY	Inhibit steering lock
B27D8-00: S/L VEHICLE SPEED MALFUNCTION	Inhibit steering lock
B27D9-00: S/L IGN MALFUNCTION	Inhibit steering lock/unlock
B27DA-00: IPDM CAN COMM CIRCUIT	Inhibit steering lock
B27DC-00: S/L POWER SUPPLY	Inhibit steering lock
B27DD-00: BCM - S/L ID DISCORD	Inhibit steering lock
B27DE-00: S/L MECHANICAL MALFUNCTION	Inhibit steering lock
B27DF-00: S/L HIGH LEVEL MALFUNCTION	Inhibit steering lock/unlock
B27E0-00: S/L LOW LEVEL MALFUNCTION	Inhibit steering lock
B27E1-00: S/L SAFETY CIRCUIT	Inhibit steering lock
B27E5-00: S/L IGN OFF POSITION	Inhibit steering lock
B27E6-00: S/L ANTI-SCAN MODE	Inhibit steering lock
B27E8-00: S/L UNDETERMINED LOCK POS	Inhibit steering lock
U0415: VEHICLE SPEED	Inhibit steering lock

#### 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 BY RAIN SENSOR MALFUNCTION

BCM detects the rain sensor serial link error and the rain sensor malfunction.

BCM controls the following fail-safe when rain sensor has a malfunction.

SYSTEM

< SYSTEM DESCRIPTION >

- Front wiper switch AUTO and sensing rain drop: The condition just before the activation of fail-safe is maintained until the front wiper switch is turned OFF.
- Front wiper switch AUTO and not sensing rain drop: Front wiper is LO operation until the front wiper switch is turned off.

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:

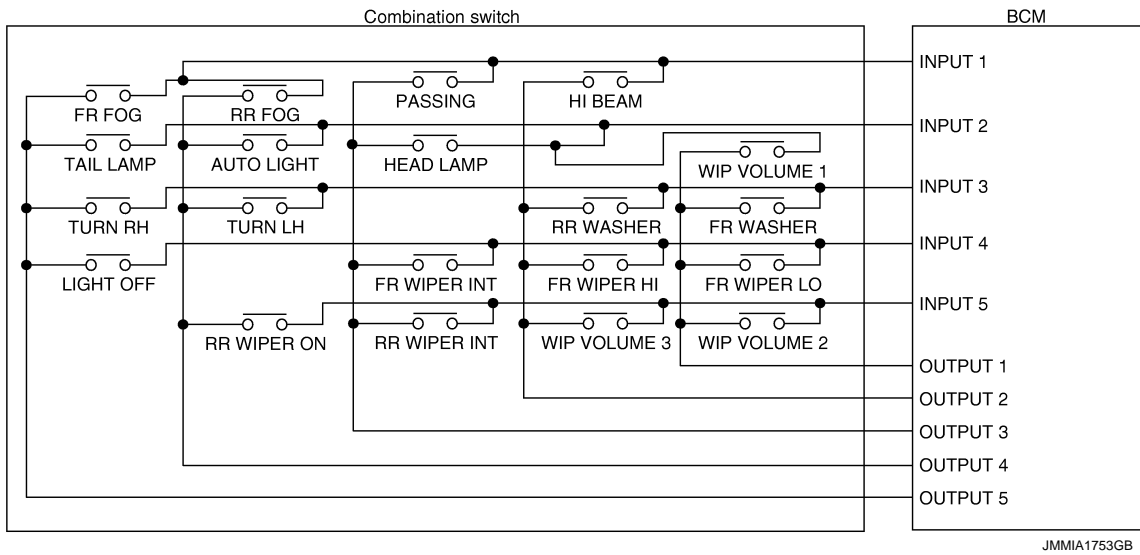
When voltage of battery power supply is approximately 9 V or more, combination switch reading function returns to normal operation.

COMBINATION SWITCH READING SYSTEM

COMBINATION SWITCH READING SYSTEM : System Description

INFOID:0000000010688578

SYSTEM DIAGRAM



OUTLINE

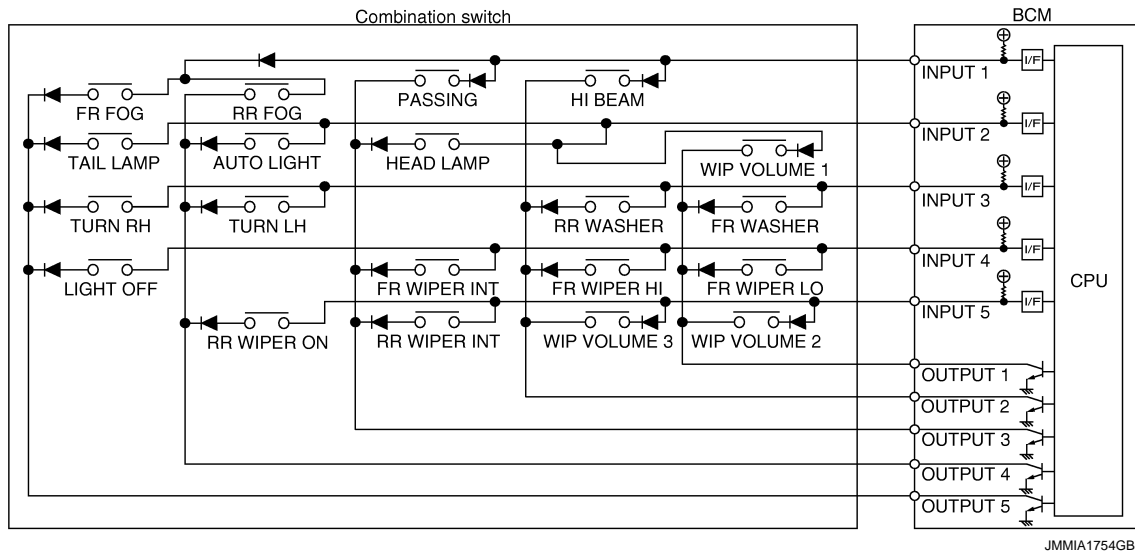
- BCM reads the status of the combination switch (light, turn signal, wiper and washer) and recognizes the status of each switch.
- BCM has a combination of 5 output terminals (OUTPUT 1 - 5) and 5 input terminals (INPUT 1 - 5). It reads a maximum of 20 switch status.

COMBINATION SWITCH MATRIX

BCS

## < SYSTEM DESCRIPTION >

### Combination switch circuit



### Combination switch INPUT-OUTPUT system list

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

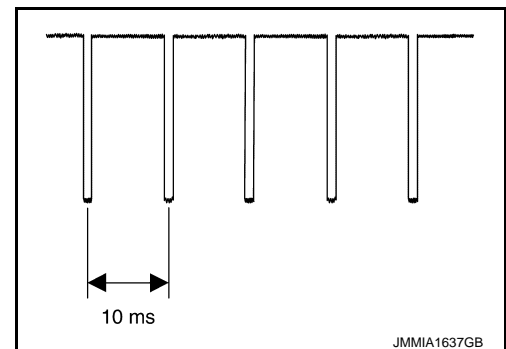
## COMBINATION SWITCH READING FUNCTION

### 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.

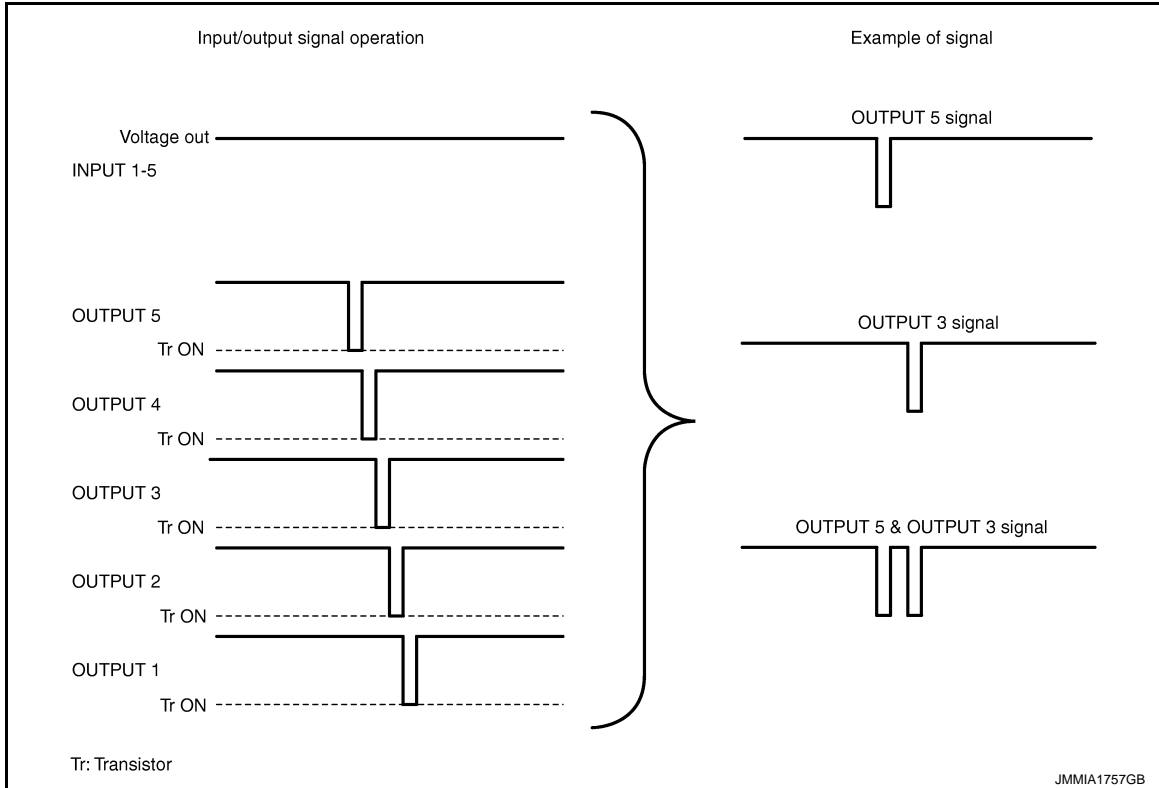


- BCM operates as follows and judges the status of the combination switch.
- It operates the transistor on OUTPUT side in the following order: OUTPUT 5  $\rightarrow$  4  $\rightarrow$  3  $\rightarrow$  2  $\rightarrow$  1, and outputs voltage waveform.
- The voltage waveform of OUTPUT corresponding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

# SYSTEM

## < SYSTEM DESCRIPTION >

- It reads this change of the voltage as the status signal of the combination switch.

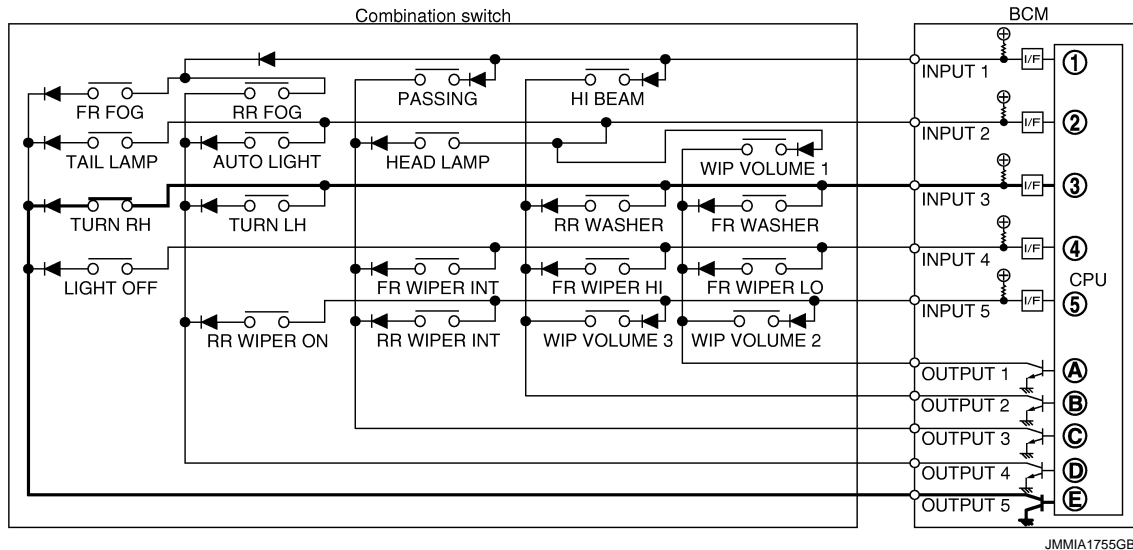


### Operation Example

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 (TURN RH switch) is turned ON

- The circuit between OUTPUT 5 and INPUT 3 is formed when the TURN RH switch is turned ON.



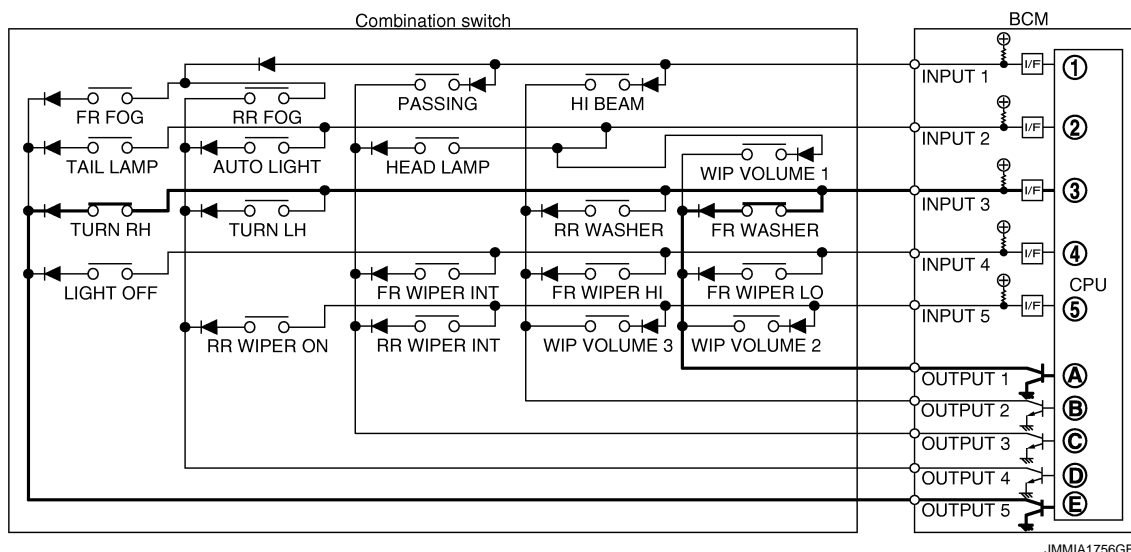
- BCM detects the combination switch status signal "3E" when the signal of OUTPUT 5 is input to INPUT 3.
- BCM judges that the TURN RH switch is ON when the signal "3E" is detected.

Example 2: When some switches (TURN RH switch, FR WASHER switch) are turned ON

# SYSTEM

## < SYSTEM DESCRIPTION >

- The circuits between OUTPUT 5 and INPUT 3 and between OUTPUT 1 and INPUT 3 are formed when the TURN RH switch and FR WASHER switch are turned ON.



- BCM detects the combination switch status signal “3AE” when the signals of OUTPUT 1 and OUTPUT 5 are input to INPUT 3.
- BCM judges that the TURN RH switch and FR WASHER switch are ON when the signal “3AE” is detected.

## WIPER VOLUME DIAL POSITION

- BCM judges the WIPER VOLUME 1 - 4 by the status of WIPER VOLUME 1, 2 and 3 switches.

4 clicks type

Wiper volume	Switch status		
	WIP VOLUME 1	WIP VOLUME 2	WIP VOLUME 3
1	ON	ON	OFF
2	ON	OFF	OFF
3	OFF	OFF	OFF
4	OFF	OFF	ON

- BCM judges the WIPER VOLUME 1 - 5 by the status of WIPER VOLUME 1, 2 and 3 switches.

5 clicks type

Wiper volume	Switch status		
	WIP VOLUME 1	WIP VOLUME 2	WIP VOLUME 3
1	ON	ON	OFF
2	ON	OFF	OFF
3	OFF	OFF	OFF
4	OFF	OFF	ON
5	OFF	ON	ON

## NOTE:

For details of wiper volume dial position, refer to [WW-13, "FRONT WIPER AND WASHER SYSTEM \(WITH LIGHT & RAIN SENSOR\) : System Description"](#) (with rain sensor) or [WW-17, "FRONT WIPER AND WASHER SYSTEM \(WITHOUT LIGHT & RAIN SENSOR\) : System Description"](#) (without rain sensor).

## SIGNAL BUFFER SYSTEM



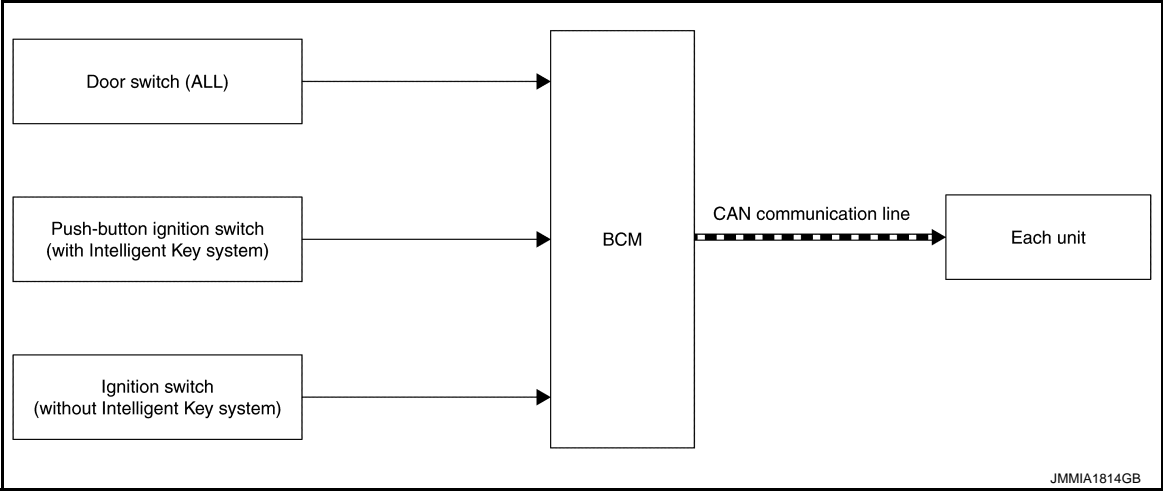
SYSTEM

< SYSTEM DESCRIPTION >

SIGNAL BUFFER SYSTEM : System Description

INFOID:000000010688579

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
Ignition switch ON signal	Push-button ignition switch (Push switch) (with Intelligent Key system)	<ul style="list-style-type: none"><li>Automatic back door control module (CAN)</li><li>IPDM E/R (CAN)</li></ul>	Inputs the push-button ignition switch (push switch) signal and transmits the ignition switch status judged with BCM via CAN communication.
	Ignition switch (without Intelligent Key system)		Inputs the ignition 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>Around view monitor control unit (CAN)</li><li>Combination meter (CAN)</li></ul>	Inputs the door switch signal and transmits it via CAN communication.

POWER CONSUMPTION CONTROL SYSTEM

BCS

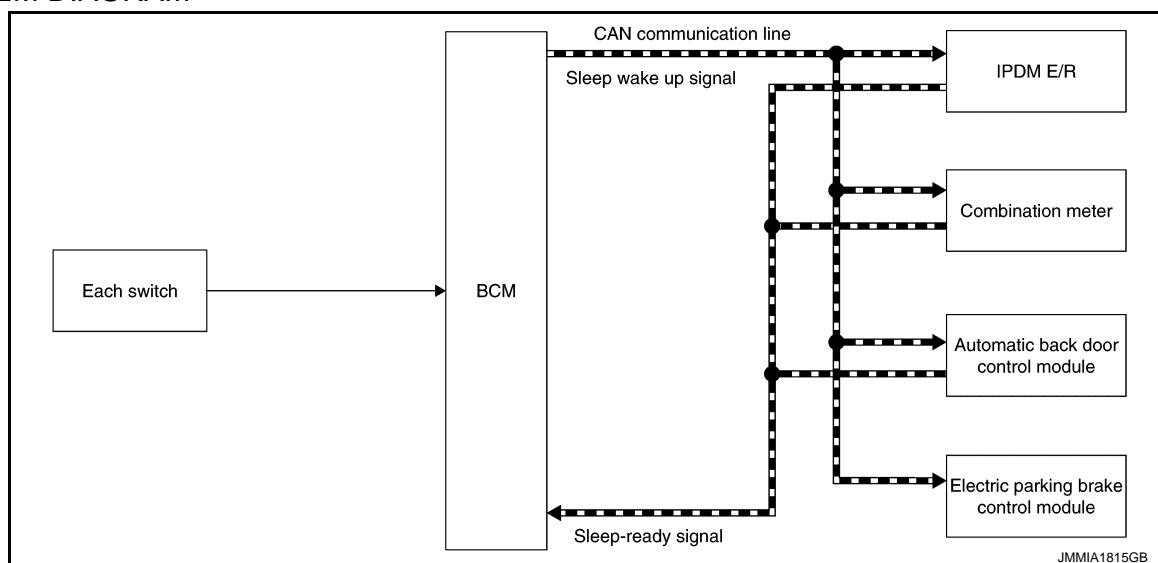
# SYSTEM

< SYSTEM DESCRIPTION >

## POWER CONSUMPTION CONTROL SYSTEM : System Description

INFOID:000000010688580

### 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, automatic back door control module and electric parking brake control module) 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

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 and AV control unit via CAN communication.
- BCM transmits the sleep wake up signal (sleep) to each unit when all of the CAN sleep conditions are fulfilled.
- Each unit stops the transmission of CAN communication with the sleep wake up signal. BCM is in CAN communication sleep mode.
- BCM is in the low power consumption mode and perform the low power consumption control when all of the BCM sleep conditions are fulfilled with CAN sleep condition.

# SYSTEM

## < SYSTEM DESCRIPTION >

### Sleep condition

CAN sleep condition	BCM sleep condition	
Receiving the sleep-ready signal (ready) from all units	• Ignition switch* <sup>1</sup> : LOCK or OFF	A
	• Push-button ignition switch (push switch)* <sup>2</sup> : No change 2 seconds	B
	• Warning chime: Not operation	
	• Intelligent Key warning buzzer* <sup>2</sup> : Not operation	
	• Stop lamp switch: OFF	C
	• Turn signal indicator lamp: Not operation	
	• Exterior lamp: OFF	
	• Door lock status: No change	D
	• Meter display signal: Non-transmission	
	• Door switch status: No change 2 seconds	
	• Back door opener switch status: No change 2 seconds	
	• Rear window defogger: OFF	
	• RAP system: OFF	E
	• CONSULT communication status: Not communication	

\*1: Without Intelligent Key system

\*2: With Intelligent Key system

### 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.

### Wake-up condition

Wake-up condition	
• Receiving the sleep-ready signal (Not-ready) from any units	H
• Ignition switch* <sup>1</sup> : OFF → ON or START	
• Key switch* <sup>1</sup> : OFF → ON, ON → OFF	I
• Push-button ignition switch (push switch)* <sup>2</sup> : OFF → ON	
• Hazard switch: OFF → ON, ON → OFF	
• HI BEAM switch: OFF → ON, ON → OFF	J
• PASSING switch: OFF → ON, ON → OFF	
• HEADLAMP switch: OFF → ON, ON → OFF	
• TAIL LAMP switch: OFF → ON	
• FR FOG switch: OFF → ON, ON → OFF	K
• RR FOG switch: OFF → ON, ON → OFF	
• Driver door switch: OFF → ON, ON → OFF	
• Passenger door switch: OFF → ON, ON → OFF	
• Rear RH door switch: OFF → ON, ON → OFF	L
• Rear LH door switch: OFF → ON, ON → OFF	
• Back door switch: OFF → ON, ON → OFF	
• Driver door request switch: OFF → ON	
• Passenger door request switch: OFF → ON	
• Back door opener switch: OFF → ON	
• Back door opener request switch: OFF → ON	
• Stop lamp switch: OFF → ON	
• Front door lock assembly (driver side) (unlock sensor): OFF → ON, ON → OFF	N
• Remote keyless entry receiver communication: Receiving	
• Door lock and unlock switch: NEUTRAL → LOCK, NEUTRAL → UNLOCK	

\*1: Without Intelligent Key system

\*2: With Intelligent Key system

## SHIPPING MODE CONTROL SYSTEM

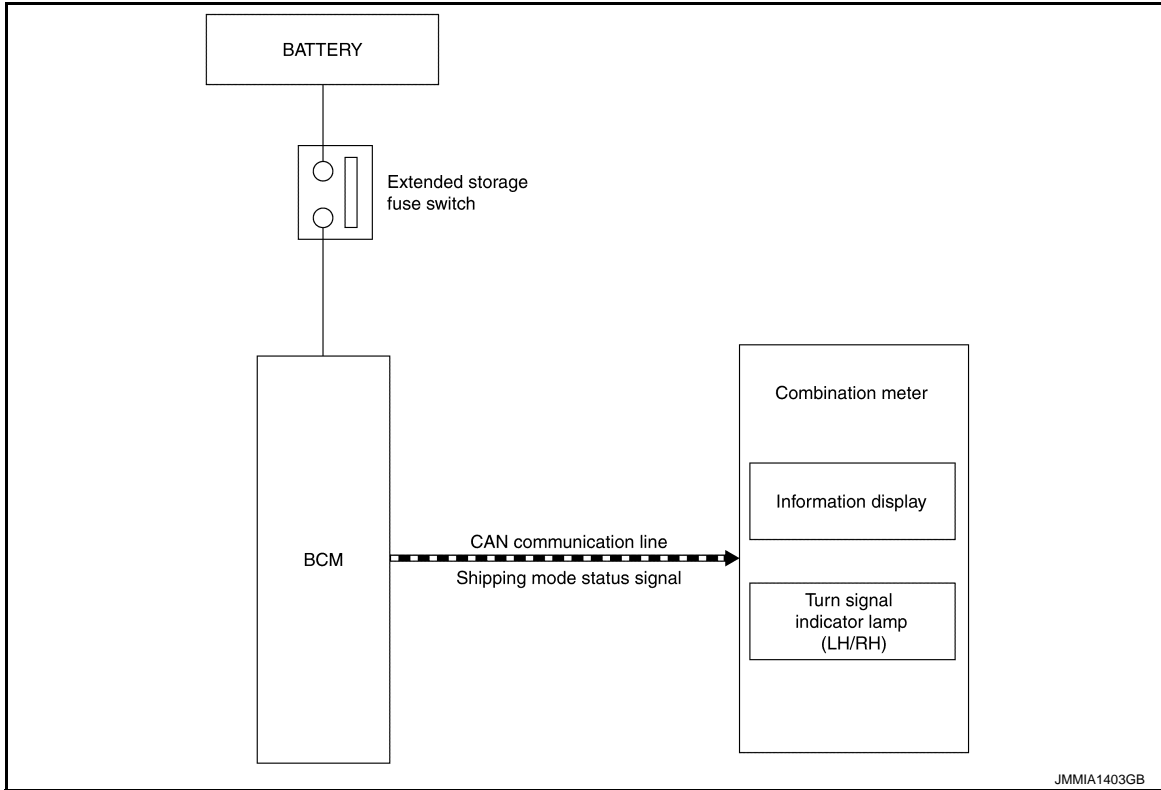
# SYSTEM

< SYSTEM DESCRIPTION >

## SHIPPING MODE CONTROL SYSTEM : System Description

INFOID:000000010688581

### SYSTEM DIAGRAM



### DESCRIPTION

- BCM switches the status (shipping mode or normal mode) by itself according to the extended storage fuse switch condition, and transmits shipping mode status signal to combination meter and each unit via CAN communication.
- When shipping mode function operates, each control unit does not detect DTCs.
- BCM control functions are limited in shipping mode. Refer to [BCS-120, "Description"](#).
- The combination meter displays extended storage fuse warning message\* on the information display, and turns the turn signal indicator lamp (LH/RH) ON, when BCM is in shipping mode.

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

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

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

INFOID:0000000010688582

### 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		×	×
Exterior lamp	HEAD LAMP	×	×	×
Interior room lamp control	INT LAMP		×	
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	
—	AIR CONDITONER*		×	×
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	
Interior room lamp battery saver	BATTERY SAVER		×	
Back door open	TRUNK		×	
Vehicle security	THEFT ALM	×	×	
RAP	RETAINED PWR		×	
Remote keyless entry system	MULTI REMOTE ENT	×	×	
Signal buffer system	SIGNAL BUFFER		×	×

#### NOTE:

\*: This item is displayed, but 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
BATTERY VOLTAGE	V	Battery voltage of the moment a particular DTC is detected.
VEHICLE SPEED	km/h	Vehicle speed of the moment a particular DTC is detected.
EXTERNAL TEMP	°C	External temperature of the moment a particular DTC is detected
VEHICLE COND	—	<b>NOTE:</b> This item is displayed, but cannot be use this item.
DOOR LOCK STATUS	—	<b>NOTE:</b> This item is displayed, but cannot be use this item.
POWER SUPPLY COUNTER	min	Displays the cumulative time from the time that the battery terminal is connected.

## DOOR LOCK

### DOOR LOCK : CONSULT Function (BCM - DOOR LOCK) (With Intelligent Key System and Super Lock)

INFOID:0000000011008704

#### BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

#### WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Anti-hijack 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>
AUTO UNLOCK TYPE	<b>NOTE:</b> This item is displayed, but cannot be used
SIGNATURE LIGHT SETTING	Signature light function can be changed to operation with this mode <ul style="list-style-type: none"><li>• On: Operate</li><li>• Off: Non-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 rear door switch RH
DOOR SW-RL	Indicated [On/Off] condition of rear 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	<b>NOTE:</b> This item is displayed, but cannot be monitored
KEY CYL UN-SW	<b>NOTE:</b> This item is displayed, but cannot be monitored

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item	Contents
SHOCK SENSOR	<b>NOTE:</b> This item is displayed, but cannot be monitored
KEY SW	<b>NOTE:</b> This item is displayed, but cannot be monitored

## ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation <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></ul>
SUPER LOCK	This test is able to check super lock actuator operation <ul style="list-style-type: none"><li>The all door lock actuators are set when "LOCK" on CONSULT screen is touched</li><li>The all door lock actuators are released when "UNLOCK" on CONSULT screen is touched</li></ul>
DOOR LOCK IND	This test is able to check door lock status indicator operation <ul style="list-style-type: none"><li>On: Operate</li><li>Off: Non-operation</li></ul>

## DOOR LOCK : CONSULT Function (BCM - DOOR LOCK) (With Intelligent Key System, Without Super Lock)

INFOID:0000000011008705

## BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

## WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Anti-hijack 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>
AUTO UNLOCK TYPE	<b>NOTE:</b> This item is displayed, but cannot be used
SIGNATURE LIGHT SETTING	Signature light function can be changed to operation with this mode <ul style="list-style-type: none"><li>On: Operate</li><li>Off: Non-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 rear door switch RH
DOOR SW-RL	Indicated [On/Off] condition of rear 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	<b>NOTE:</b> This item is displayed, but cannot be monitored

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item	Contents
KEY CYL UN-SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
SHOCK SENSOR	<b>NOTE:</b> This item is displayed, but cannot be monitored
KEY SW	<b>NOTE:</b> This item is displayed, but cannot be monitored

## ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation <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> </ul>
SUPER LOCK	<b>NOTE:</b> This item is displayed, but cannot be used
DOOR LOCK IND	<b>NOTE:</b> This item is displayed, but cannot be used

## DOOR LOCK : CONSULT Function (BCM - DOOR LOCK) (Without Intelligent Key System, With Super Lock)

INFOID:0000000011008706

## 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>
AUTO UNLOCK TYPE	<b>NOTE:</b> This item is displayed, but cannot be used
SIGNATURE LIGHT SETTING	Signature light function can be changed to operation with this mode <ul style="list-style-type: none"> <li>On: Operate</li> <li>Off: Non-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
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 rear door switch RH
DOOR SW-RL	Indicated [On/Off] condition of rear 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	<b>NOTE:</b> This item is displayed, but cannot be monitored
KEY CYL UN-SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
SHOCK SENSOR	<b>NOTE:</b> This item is displayed, but cannot be monitored
KEY SW	Indicated [On/Off] condition of key switch



# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

### ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation <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></ul>
SUPER LOCK	This test is able to check super lock actuator operation <ul style="list-style-type: none"><li>The all door lock actuators are set when "LOCK" on CONSULT screen is touched</li><li>The all door lock actuators are released when "UNLOCK" on CONSULT screen is touched</li></ul>
DOOR LOCK IND	This test is able to check door lock status indicator operation <ul style="list-style-type: none"><li>On: Operate</li><li>Off: Non-operation</li></ul>

### DOOR LOCK : CONSULT Function (BCM - DOOR LOCK) (Without Intelligent Key System and Super Lock)

INFOID:0000000011008707

### 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>
AUTO UNLOCK TYPE	<b>NOTE:</b> This item is displayed, but cannot be used
SIGNATURE LIGHT SETTING	Signature light function can be changed to operation with this mode <ul style="list-style-type: none"><li>On: Operate</li><li>Off: Non-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
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 rear door switch RH
DOOR SW-RL	Indicated [On/Off] condition of rear 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	<b>NOTE:</b> This item is displayed, but cannot be monitored
KEY CYL UN-SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
SHOCK SENSOR	<b>NOTE:</b> This item is displayed, but cannot be monitored
KEY SW	Indicated [On/Off] condition of key switch

### ACTIVE TEST

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation <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> </ul>
SUPER LOCK	<b>NOTE:</b> This item is displayed, but cannot be monitored
DOOR LOCK IND	<b>NOTE:</b> This item is displayed, but cannot be monitored

## MULTI REMOTE ENT

### MULTI REMOTE ENT : CONSULT Function (BCM - MULTI REMOTE ENT) (With Super Lock)

INFOID:0000000011008710

## WORK SUPPORT

Test item	Description
AUTO LOCK SET	Auto door lock time can be changed in this mode <ul style="list-style-type: none"> <li>MODE 1: Non-operation</li> <li>MODE 2: 30 sec.</li> <li>MODE 3: 1 minute</li> <li>MODE 4: 2 minute</li> <li>MODE 5: 3 minute</li> <li>MODE 6: 4 minute</li> <li>MODE 7: 5 minute</li> </ul>
ANSWER BACK	<b>NOTE:</b> This item is displayed, but cannot be used
ANSWER BACK KEYLESS LOCK UNLOCK	<b>NOTE:</b> This item is displayed, but cannot be used
WELCOME LIGHT OP SET	<b>NOTE:</b> This item is displayed, but cannot be used

## 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
CONFIRM ID ALL	Indicates [Yet] at all time. Switches to [Done] when a registered key is inserted into ignition key cylinder.
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	
CLUTCH SW*1	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]*2 condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
START CLUTCH SW	Indicates [On/Off] condition of clutch pedal position switch

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item	Condition
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	<b>NOTE:</b> This item is displayed, but cannot be monitored
STOP/START SW	Indicates [On/Off] condition of stop/start off switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from keyfob
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from keyfob
RKE-TR/BD	<b>NOTE:</b> This item is displayed, but cannot be monitored
RKE-PANIC	<b>NOTE:</b> This item is displayed, but cannot be monitored
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from keyfob
KEY SW	Indicates [On/Off] condition of key switch
IGN SW	Indicates [On/Off] condition of ignition switch in ON position
START SW	Indicates [On/Off] condition of ignition switch in START position

\*1: It is displayed but does not operate on CVT models.

\*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

## ACTIVE TEST

Test item	Description
FLASHER	This test is able to check flasher operation [LH/RH/Off]
HORN	<b>NOTE:</b> This item is displayed, but cannot be used
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) • On: Operates • Off: Non-operation
MIRROR+5	<b>NOTE:</b> This item is displayed, but cannot be used
TRUNK/BACK DOOR	<b>NOTE:</b> This item is displayed, but cannot be used
RETRACTABLE MIRROR	<b>NOTE:</b> This item is displayed, but cannot be used
AUTO ACC 2	This test is able to check BCM sends power supply to audio unit or NAVI control unit • On: Operate • Off: Non-operation
AUTO ACC 1	This test is able to check BCM sends power supply to ignition relay • On: Operate • Off: Non-operation
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk/luggage room lamp operation • On: Operates • Off: Non-operation

MULTI REMOTE ENT : CONSULT Function (BCM - MULTI REMOTE ENT) (Without Super Lock)

INFOID:0000000011008713

## WORK SUPPORT

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Test item	Description
AUTO LOCK SET	Auto door lock time can be changed in this mode <ul style="list-style-type: none"> <li>• MODE 1: Non-operation</li> <li>• MODE 2: 30 sec.</li> <li>• MODE 3: 1 minute</li> <li>• MODE 4: 2 minute</li> <li>• MODE 5: 3 minute</li> <li>• MODE 6: 4 minute</li> <li>• MODE 7: 5 minute</li> </ul>
ANSWER BACK	<b>NOTE:</b> This item is displayed, but cannot be used
ANSWER BACK KEYLESS LOCK UNLOCK	<b>NOTE:</b> This item is displayed, but cannot be used
WELCOME LIGHT OP SET	<b>NOTE:</b> This item is displayed, but cannot be used

## 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
CONFIRM ID ALL	Indicates [Yet] at all time. Switches to [Done] when a registered key is inserted into ignition key cylinder.
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	
CLUTCH SW* <sup>1</sup>	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]* <sup>2</sup> condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
START CLUTCH SW	Indicates [On/Off] condition of clutch pedal position switch
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	<b>NOTE:</b> This item is displayed, but cannot be monitored
STOP/START SW	Indicates [On/Off] condition of stop/start off switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from keyfob
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from keyfob
RKE-TR/BD	<b>NOTE:</b> This item is displayed, but cannot be monitored
RKE-PANIC	<b>NOTE:</b> This item is displayed, but cannot be monitored
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from keyfob

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item	Condition
KEY SW	Indicates [On/Off] condition of key switch
IGN SW	Indicates [On/Off] condition of ignition switch in ON position
START SW	Indicates [On/Off] condition of ignition switch in START position

\*1: It is displayed but does not operate on CVT models.

\*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

## ACTIVE TEST

Test item	Description
FLASHER	This test is able to check flasher operation [LH/RH/Off]
HORN	<b>NOTE:</b> This item is displayed, but cannot be used
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) • On: Operates • Off: Non-operation
MIRROR+5	<b>NOTE:</b> This item is displayed, but cannot be used
TRUNK/BACK DOOR	<b>NOTE:</b> This item is displayed, but cannot be used
RETRACTABLE MIRROR	<b>NOTE:</b> This item is displayed, but cannot be used
AUTO ACC 2	This test is able to check BCM sends power supply to audio unit or NAVI control unit • On: Operate • Off: Non-operation
AUTO ACC 1	This test is able to check BCM sends power supply to ignition relay • On: Operate • Off: Non-operation
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk/luggage room lamp operation • On: Operates • Off: Non-operation

## REAR WINDOW DEFOGGER

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

INFOID:0000000011008741

## WORK SUPPORT

Service item	Setting item	Description
SET R-DEF TIMER	MODE1*	<b>NOTE:</b> Do not use this function.
	MODE2	
	MODE3	

\*: 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	Description
PUSH SW	Indicates [On/Off] condition of push switch
REAR DEF SW	Displays "Press (On)/other (Off)" status determined with the rear window defogger switch

## ACTIVE TEST

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Test Item	Description
REAR DEFOGGER	Rear window defogger operates when "On" on CONSULT screen is touched

## BUZZER

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

INFOID:0000000011008744

#### 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.
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.
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
IGN KEY WARN ALM	The key warning chime operation can be checked by operating the relevant function (On/Off).
SEAT BELT WARN TEST	This item is displayed, but cannot be monitored.
LIGHT WARN ALM	The light warning chime operation can be checked by operating the relevant function (On/Off).
REVERSE WARNING	This item is displayed, but cannot be monitored.

##### NOTE:

Some items are not available according to vehicle specification.

## INT LAMP

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

INFOID:0000000011008729

## WORK SUPPORT

Service item	Setting item	Setting
SET I/L D-UNLCK INTCON	On*	With interior room lamp timer function
	Off	Without interior room lamp timer function
FOG LAMP OVERRIDE	On*	With fog override function
	Off	Without fog override 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]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK [On/Off]	Indicated [On/Off] condition of back door switch
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock and unlock switch
KEY CYL LK-SW [On/Off]	<b>NOTE:</b> This item is displayed, but cannot be monitored
KEY CYL UN-SW [On/Off]	<b>NOTE:</b> This item is displayed, but cannot be monitored
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key or keyfob
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key or keyfob
KEY SW [On/Off]	Indicates [On/Off] condition of key switch

## ACTIVE TEST

Test item	Operation	Description
INT LAMP	On	Outputs interior room lamp control signal.
	Off	Stops interior room lamp control signal.

## HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEAD LAMP) (LED Headlamp) INFOID:0000000011010965

## WORK SUPPORT

Service item	Setting item	Setting
CUSTOM A/LIGHT SETTING	MODE1*	Normal
	MODE2	More sensitive setting than normal setting (Turns ON earlier than normal operation)
	MODE3	More sensitive setting than MODE2 (Turns ON earlier than MODE2)
	MODE4	Less sensitive setting than normal setting (Turns ON later than normal operation)
TWILIGHT On	MODE1	<b>NOTE:</b> This item is displayed, but cannot be used
	MODE2	

## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

Service item	Setting item	Setting
WIPER LINK	MODE1	<b>NOTE:</b> This item is displayed, but cannot be used
	MODE2	
	MODE3	
	MODE4	

\*: 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]	Indicates [On/Off] condition of push-button ignition switch
ENGINE STATE [STOP/STALL/CRANK/RUN]	Indicates [STOP/STALL/CRANK/RUN] condition of engine states
VEH SPEED 1 [km/h]	Indicates [km/h] condition of vehicle speed signal from combination meter
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]	
HEADLAMP SW [On/Off]	
LIGHT OFF SW [On/Off]	
PASSING SW [On/Off]	
AUTO LIGHT SW [On/Off]	
FR FOG SW [On/Off]	
RR FOG SW [On/Off]	
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK [On/Off]	Indicated [On/Off] condition of back door switch
OPTI SEN (DTCT) [V]	<b>NOTE:</b> This item is displayed, but cannot be monitored



# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
OPTI SEN (FILT) [V]	<b>NOTE:</b> This item is displayed, but cannot be monitored
OPTICAL SENSOR [On/Off/NG]	The sensor condition received from light & rain sensor

## ACTIVE TEST

Test item	Operation	Description
FR FOG LAMP	On	<ul style="list-style-type: none"> <li>Transmits the front fog light request signal to IPDM E/R via CAN communication to turn the front fog lamp ON</li> <li>Transmits the front fog light request signal to combination meter via CAN communication to turn the front fog lamp indicator lamp ON</li> </ul>
	Off	Stops the front fog light request signal transmission
RR FOG LAMP	On	<ul style="list-style-type: none"> <li>Outputs voltage to turn the rear fog lamp ON</li> <li>Transmits the rear fog lamp status signal to combination meter via CAN communication to turn the rear fog lamp indicator lamp ON</li> </ul>
	Off	<ul style="list-style-type: none"> <li>Stops the voltage to turn the rear fog lamp OFF</li> <li>Stops the rear fog lamp status signal transmission</li> </ul>
STOP LAMP 1	On	Outputs voltage to turn the stop lamp RH ON
	Off	Stops the voltage to turn the stop lamp RH OFF
STOP LAMP 2	On	Outputs voltage to turn the stop lamp LH ON
	Off	Stops the voltage to turn the stop lamp LH OFF
STOP LAMP 3	On	Outputs voltage to turn the high-mounted stop lamp ON
	Off	Stops the voltage to turn the high-mounted stop lamp OFF
DAYTIME RUNNING LIGHT	On	Transmits the daytime running light request signal to IPDM E/R using CAN communication to turn the daytime running light ON
	Off	Stops the daytime running light request signal transmission
ILL DIM SIGNAL *	On	Transmits the dimmer signal to NAVI control unit and dims display
	Off	Stops the dimmer signal transmission

\*: For models without navigation, this item is displayed, but cannot be tested.

## HEADLAMP : CONSULT Function (BCM - HEAD LAMP) (Halogen Headlamp)

INFOID:0000000011008727

## WORK SUPPORT

Service item	Setting item	Setting
CUSTOM A/LIGHT SETTING	MODE1*	Normal
	MODE2	More sensitive setting than normal setting (Turns ON earlier than normal operation)
	MODE3	More sensitive setting than MODE2 (Turns ON earlier than MODE2)
	MODE4	Less sensitive setting than normal setting (Turns ON later than normal operation)
TWILIGHT On	MODE1	<b>NOTE:</b> This item is displayed, but cannot be used
	MODE2	
WIPER LINK	MODE1	<b>NOTE:</b> This item is displayed, but cannot be used
	MODE2	
	MODE3	
	MODE4	

\*: Factory setting

## DATA MONITOR

## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

**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]	Indicates [On/Off] condition of push-button ignition switch
ENGINE STATE [STOP/STALL/CRANK/RUN]	Indicates [STOP/STALL/CRANK/RUN] condition of engine states
VEH SPEED 1 [km/h]	Indicates [km/h] condition of vehicle speed signal from combination meter
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]	
HEADLAMP SW [On/Off]	
LIGHT OFF SW [On/Off]	
PASSING SW [On/Off]	
AUTO LIGHT SW* <sup>1</sup> [On/Off]	
FR FOG SW* <sup>2</sup> [On/Off]	
RR FOG SW [On/Off]	
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK [On/Off]	Indicated [On/Off] condition of back door switch
OPTI SEN (DTCT) [V]	<b>NOTE:</b> This item is displayed, but cannot be monitored
OPTI SEN (FILT) [V]	<b>NOTE:</b> This item is displayed, but cannot be monitored
OPTICAL SENSOR* <sup>1</sup> [On/Off/NG]	The sensor condition received from light & rain sensor

\*<sup>1</sup>: For models without auto light system, this item is displayed, but cannot be monitored.

\*<sup>2</sup>: For models without front fog lamp, this item is displayed, but cannot be monitored.

### ACTIVE TEST

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Test item	Operation	Description
FR FOG LAMP*1	On	<ul style="list-style-type: none"> <li>Transmits the front fog light request signal to IPDM E/R via CAN communication to turn the front fog lamp ON</li> <li>Transmits the front fog light request signal to combination meter via CAN communication to turn the front fog lamp indicator lamp ON</li> </ul>
	Off	Stops the front fog light request signal transmission
RR FOG LAMP	On	<ul style="list-style-type: none"> <li>Outputs voltage to turn the rear fog lamp ON</li> <li>Transmits the rear fog lamp status signal to combination meter via CAN communication to turn the rear fog lamp indicator lamp ON</li> </ul>
	Off	<ul style="list-style-type: none"> <li>Stops the voltage to turn the rear fog lamp OFF</li> <li>Stops the rear fog lamp status signal transmission</li> </ul>
STOP LAMP 1	On	Outputs voltage to turn the stop lamp RH ON
	Off	Stops the voltage to turn the stop lamp RH OFF
STOP LAMP 2	On	Outputs voltage to turn the stop lamp LH ON
	Off	Stops the voltage to turn the stop lamp LH OFF
STOP LAMP 3	On	Outputs voltage to turn the high-mounted stop lamp ON
	Off	Stops the voltage to turn the high-mounted stop lamp OFF
DAYTIME RUNNING LIGHT	On	Transmits the daytime running light request signal to IPDM E/R using CAN communication to turn the daytime running light ON
	Off	Stops the daytime running light request signal transmission
ILL DIM SIGNAL*2	On	Transmits the dimmer signal to NAVI control unit and dims display
	Off	Stops the dimmer signal transmission

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

\*2: For models without navigation, this item is displayed, but cannot be tested.

## WIPER

### WIPER : CONSULT Function - WIPER

INFOID:0000000011008738

## WORK SUPPORT

Service item	Setting item	Description
WIPER SPEED SETTING*1	On*3	Linked with vehicle speed (Front wiper intermittent time linked with the vehicle speed and wiper volume dial position.)
	Off	Not linked with vehicle speed (Front wiper intermittent time linked with the wiper volume dial position.)
RAIN SENSOR*2	On*3	Linked with light & rain sensor (Front wiper intermittent time linked with the light & rain sensor, vehicle speed, and wiper volume dial position)
	Off	Not linked with light & rain sensor (Front wiper intermittent time linked with the vehicle speed and wiper volume dial position)
FR RR DRIP	On*3	Front wiper drop wipe and rear wiper drop wipe operation ON
	Off	Front wiper drop wipe and rear wiper drop wipe operation OFF
REAR WIPER LINK WITH REVERSE SETTING	On	Rear wiper operation linked with reverse ON
	Off*3	Rear wiper operation linked with reverse OFF

\*1: For models without light & rain sensor

\*2: For models with light & rain sensor

\*3: Factory setting

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

### 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.
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]	Displays the status of the rear wiper stop position signal received from rear wiper motor.
H/L WSR SW* [Off/On]	Status of headlamp washer switch judged by BCM.
RAIN SENSOR [OFF/LOW/HIGH/SPLASH/NG]	Request signal from light & rain sensor detected by BCM is displayed.

\*: For models without headlamp washer switch, this item is indicated but is not used.

### ACTIVE TEST

Test item	Operation	Description
FR WIPER	Hi	Operates the front wiper HI operation.
	Lo	Operates the front wiper LO operation.
	INT	Operates the front wiper INT/AUTO operation.
	Off	Stops the front wiper operation.
RR WIPER	On	Operates the rear wiper operation.
	Off	Stops the rear wiper operation.
HEADLAMP WASHER*	On	Operates the headlamp washer operation.

\*: For models without headlamp washer, this item is indicated but is not used.

### FLASHER

### FLASHER : CONSULT Function (BCM - FLASHER) (LED Headlamp)

INFOID:0000000011010966

### WORK SUPPORT

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Service item	Setting item	Setting
3-TIME FLASHER SETTING	On*	With 3-time flasher function
	Off	Without 3-time flasher 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]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW -AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
PUSH SW [On/Off]	Indicates [On/Off] condition of 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]	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-PANIC [On/Off]	<b>NOTE:</b> This item is displayed, but cannot be monitored

## FLASHER : CONSULT Function (BCM - FLASHER) (Halogen Headlamp) INFOID:0000000011008728

## WORK SUPPORT

Service item	Setting item	Setting
3-TIME FLASHER SETTING	On*	With 3-time flasher function
	Off	Without 3-time flasher 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]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW -AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
PUSH SW [On/Off]	Indicates [On/Off] condition of 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]	Indicates [On/Off] condition of LOCK signal from Intelligent Key or keyfob
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key or keyfob
RKE-PANIC [On/Off]	<b>NOTE:</b> This item is displayed, but cannot be monitored

## INTELLIGENT KEY

### INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY) (With Super Lock)

INFOID:0000000011008715

## WORK SUPPORT

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 monitored
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>
SHORT CRANKING OUTPUT	<b>NOTE:</b> This item is displayed, but cannot be monitored
IGN/ACC BATTERY SAVER	Ignition battery saver system 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>
ANSWER BACK	<b>NOTE:</b> This item is displayed, but cannot be used
ANSWER BACK I-KEY LOCK UNLOCK	<b>NOTE:</b> This item is displayed, but cannot be monitored
ANSWER BACK KEYLESS LOCK UNLOCK	<b>NOTE:</b> This item is displayed, but cannot be monitored

## SELF-DIAG RESULT

Refer to [BCS-78, "DTC Index"](#).

## DATA MONITOR

**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.

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

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* <sup>1</sup>	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]* <sup>2</sup> 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
START CLUTCH SW	Indicates [On/Off] condition of clutch pedal position switch
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
NEUTRAL SW - IPDM	Indicates [On/Off] condition of reverse/neutral position switch
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
STARTER RELAY - IPDM	Indicates [On/Off] condition of starter relay
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states
ST/INHIRELAY-IPDM	Display the starter relay/starter control relay status signal from IPDM E/R via CAN communication
REVERSE SIGNAL - IPDM	Indicates [On/Off] condition of R position
CRANKING PERMIT - ECM	Display the engine cranking permit signal from ECM via CAN communication
IS STATUS - ECM	Indicates [On/Off] condition of stop/start system
STARTER CUT RELAY - ECM	Indicates [On/Off] condition of starter control relay signal from ECM via CAN communication
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 actuator and electric unit (control unit) by numerical value [Km/h]
IGN REQ - IPDM	Display the ignition request signal from IPDM E/R via CAN communication
STARTER REQ - IPDM	Display the starter request signal from IPDM E/R via CAN communication
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	<b>NOTE:</b> This item is displayed, but cannot be monitored
ID OK FLAG	Indicates [Set/Reset] condition of Intelligent 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
I-KEY OK FLAG	Indicates [KEY On/NOT On] condition of Intelligent Key ID and Intelligent Key is detected inside vehicle
PRBT ENG STRT	Indicates whether or not the engine is in start prohibited status
ID AUTHENT CANCEL TIMER	Indicates whether or not it is in engine start possible status when Intelligent Key verification is unnecessary
ACC BATTERY SAVER	Indicates [On/Off] whether or not ignition battery saver is in operation
CRNK PRBT TMR	Indicates [On/Off] whether or not in cranking prohibited status due to starter motor protection function operation

BCS

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item	Condition
AUT CRANK TMR	Indicates [On/Off] whether or not in AUTO CRANKING MODE status
CRNK PRBT TME	Indicates the time for changing from cranking prohibited status to cranking possible status
AUT CRANK TMR	Indicates the time that AUTO CRANKING MODE operates
CRANKING TME	Indicates the cranking operation time
SHORT CRANK	<b>NOTE:</b> This item is displayed, but not used
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
S/L IGN OFF POSITION	Indicates [On/Off] condition of Ignition OFF signal
S/L SENSOR CIRCUIT 1	Indicates [Gnd/On] condition of steering lock unit sensor circuit
S/L SENSOR CIRCUIT 2	Indicates [On/Off] condition of steering lock unit sensor circuit
S/L POWER OUTPUT	Indicates [On/Off] condition of steering lock unit power supply
S/L POWER CHECK	Indicates [On/Off] condition of steering lock unit power supply
ANTICIPATED POWER	Indicates [On/Off] condition of anticipated power supply
S/L LOCK REQ	Indicates [On/Off] condition of steering lock unit lock request signal
S/L - BCM (CAN)	Indicates [On/Off] condition of CAN communication
S/L POWER ERROR	Indicates [On/Off] condition of steering lock unit power supply error
VEH SPEED ERROR (S/L)	Indicates [On/Off] condition of vehicle speed signal
VEH SPEED NORMAL (S/L)	Indicates [On/Off] condition of vehicle speed signal
ENGINE RUNNING (S/L)	Indicates [On/Off] condition of engine running
S/L ID DISCORD	Indicates [Correct/Incorrect] condition of ID verification
S/L ANTI-SCAN MODE	Indicates [On/Off] condition of antiscan mode
S/L LOCK NOT PERMIT	Indicates [Inhibition/No inhbt] condition of inhibit steering lock
S/L UNLOCK (CAN)	Indicates [Finished/Unfinished] condition of steering lock unit unlock
S/L ID STATUS (CAN)	Indicates [Coded/Blank] condition of registration ID
S/L RESET STATUS (CAN)	Indicates [Exit/No exit] condition of steering lock unit reset signal
S/L LO-LEVEL MALFUNC (CAN)	Indicates [Malf/No malf] condition of lo-level malfunction
S/L LOCK POSITION (CAN)	Indicates [Armed/Malf/Unlocked/Undefined] condition of lock/unlock position signal
S/L ACT MALFUNCTION (CAN)	Indicates [Malf/No malf] condition of steering lock unit malfunction
S/L HI-LEVEL MALFUNC (CAN)	Indicates [Malf/No malf] condition of hi-level malfunction
S/L OPERATION PRHBT (SPD)	Indicates [On/Off] condition of vehicle speed signal
S/L OPERATION PRHBT (PWR)	Indicates [Allowed/Forbid] condition of safety line inhibition
S/L SENSOR POWER (CAN)	Indicates [On/Off] condition of sensor test power supply
S/L SEN TEST PERMIT (CAN)	Indicates [Forbid/Authorize] condition of sensor test
S/L STAT NOT DETECT (CAN)	Indicates [Ok/Unfind] condition of steering lock undefined position signal
S/L LOCKING FINISHED (CAN)	Indicates [Unfinshd/Finished] condition of steering lock unit lock status signal
STOP/START SW	Indicates [On/Off] condition of stop/start off switch
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	<b>NOTE:</b> This item is displayed, but cannot be monitored



# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item	Condition
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key
RKE PBD	Indicates [On/Off] condition of back door open request signal from Intelligent Key
KEY SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
IGN SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
START SW	<b>NOTE:</b> This item is displayed, but cannot be monitored

\*1: It is displayed but does not operate on CVT models.

\*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

## ACTIVE TEST

Test item	Description
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>Buzzer 1: Combination meter buzzer sounds (pipipi...) when CONSULT screen is touched</li> <li>Buzzer 2: Combination meter buzzer sounds (pipi-pipi-...) when CONSULT screen is touched</li> <li>Buzzer 3: Combination meter buzzer sounds (pipipipi-pipipipi-...) 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: [Intelligent Key system malfunction] displays 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>
FLASHER	This test is able to check security hazard lamp operation The hazard lamps are activated after "LH/RH/Off" on CONSULT screen is touched
HORN	<b>NOTE:</b> This item is displayed, but cannot be used
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) <ul style="list-style-type: none"> <li>On: Operates</li> <li>Off: Non-operation</li> </ul>
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation Push-ignition switch illumination illuminates when "ON" on CONSULT screen is touched
ENGINE START REQUEST	This test is able to check BCM sends starter request signal to IPDM E/R via CAN communication <ul style="list-style-type: none"> <li>MODE 1: IGN ON, START request OFF</li> <li>MODE 2: IGN OFF, START request ON</li> <li>MODE 3: IGN ON, START request ON</li> <li>Off: Non-operation</li> </ul>
IGNITION RELAY	<b>NOTE:</b> This item is displayed, but cannot be used
STARTER CUT RELAY	This test is able to operate the starter control relay <ul style="list-style-type: none"> <li>On: Operates</li> <li>Off: Non-operation</li> </ul>
ENGINE START	<b>NOTE:</b> This item is displayed, but cannot be used
TRUNK/BACK DOOR	<b>NOTE:</b> This item is displayed, but cannot be used
RETRACTABLE MIRROR	<b>NOTE:</b> This item is displayed, but cannot be used

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## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

Test item	Description
AUTO ACC 2	This test is able to check BCM sends power supply to audio unit or NAVI control unit <ul style="list-style-type: none"><li>• On: Operate</li><li>• Off: Non-operation</li></ul>
AUTOMATIC BACK DOOR	<b>NOTE:</b> This item is displayed, but cannot be used
AUTO ACC 1	This test is able to check BCM sends power supply to ignition relay <ul style="list-style-type: none"><li>• On: Operate</li><li>• Off: Non-operation</li></ul>
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk/luggage room lamp operation <ul style="list-style-type: none"><li>• On: Operates</li><li>• Off: Non-operation</li></ul>

### INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY) (Without Super Lock)

INFOID:0000000011008716

### WORK SUPPORT

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 monitored
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>
SHORT CRANKING OUTPUT	<b>NOTE:</b> This item is displayed, but cannot be monitored
IGN/ACC BATTERY SAVER	Ignition battery saver system 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>
ANSWER BACK	<b>NOTE:</b> This item is displayed, but cannot be used
ANSWER BACK I-KEY LOCK UNLOCK	<b>NOTE:</b> This item is displayed, but cannot be used
ANSWER BACK KEYLESS LOCK UNLOCK	<b>NOTE:</b> This item is displayed, but cannot be used

### SELF-DIAG RESULT

Refer to [BCS-78, "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.

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item	Condition	
REQ SW -DR	Indicates [On/Off] condition of door request switch (driver side)	A
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	B
PUSH SW	Indicates [On/Off] condition of push-button ignition switch	
CLUTCH SW*1	Indicates [On/Off] condition of clutch interlock switch	C
BRAKE SW 1	Indicates [On/Off]*2 condition of stop lamp switch power supply	
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch	D
DETE/CANCL SW	Indicates [On/Off] condition of P position	
START CLUTCH SW	Indicates [On/Off] condition of clutch pedal position switch	
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch	E
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1	
NEUTRAL SW - IPDM	Indicates [On/Off] condition of reverse/neutral position switch	
SFT PN -IPDM	Indicates [On/Off] condition of P or N position	F
STARTER RELAY - IPDM	Indicates [On/Off] condition of starter relay	
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states	G
ST/INHIRELAY-IPDM	Display the starter relay/starter control relay status signal from IPDM E/R via CAN communication	
REVERSE SIGNAL - IPDM	Indicates [On/Off] condition of R position	H
CRANKING PERMIT - ECM	Display the engine cranking permit signal from ECM via CAN communication	
IS STATUS - ECM	Indicates [On/Off] condition of stop/start system	I
STARTER CUT RELAY - ECM	Indicates [On/Off] condition of starter control relay signal from ECM via CAN communication	
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 actuator and electric unit (control unit) by numerical value [Km/h]	J
IGN REQ - IPDM	Display the ignition request signal from IPDM E/R via CAN communication	
STARTER REQ - IPDM	Display the starter request signal from IPDM E/R via CAN communication	K
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status	
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status	
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status	L
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status	
BK DOOR STATE	<b>NOTE:</b> This item is displayed, but cannot be monitored	BCS
ID OK FLAG	Indicates [Set/Reset] condition of Intelligent Key ID	
PRMT ENG STRT	Indicates [Set/Reset] condition of engine start possibility	N
PRMT RKE STRT	<b>NOTE:</b> This item is displayed, but cannot be monitored	
I-KEY OK FLAG	Indicates [KEY On/NOT On] condition of Intelligent Key ID and Intelligent Key is detected inside vehicle	O
PRBT ENG STRT	Indicates whether or not the engine is in start prohibited status	
ID AUTHENT CANCEL TIMER	Indicates whether or not it is in engine start possible status when Intelligent Key verification is unnecessary	P
ACC BATTERY SAVER	Indicates [On/Off] whether or not ignition battery saver is in operation	
CRNK PRBT TMR	Indicates [On/Off] whether or not in cranking prohibited status due to starter motor protection function operation	
AUT CRANK TMR	Indicates [On/Off] whether or not in AUTO CRANKING MODE status	
CRNK PRBT TME	Indicates the time for changing from cranking prohibited status to cranking possible status	

## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

Monitor Item	Condition
AUT CRANK TMR	Indicates the time that AUTO CRANKING MODE operates
CRANKING TME	Indicates the cranking operation time
SHORT CRANK	<b>NOTE:</b> This item is displayed, but not used
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
S/L IGN OFF POSITION	Indicates [On/Off] condition of Ignition OFF signal
S/L SENSOR CIRCUIT 1	Indicates [Gnd/On] condition of steering lock unit sensor circuit
S/L SENSOR CIRCUIT 2	Indicates [On/Off] condition of steering lock unit sensor circuit
S/L POWER OUTPUT	Indicates [On/Off] condition of steering lock unit power supply
S/L POWER CHECK	Indicates [On/Off] condition of steering lock unit power supply
ANTICIPATED POWER	Indicates [On/Off] condition of anticipated power supply
S/L LOCK REQ	Indicates [On/Off] condition of steering lock unit lock request signal
S/L - BCM (CAN)	Indicates [On/Off] condition of CAN communication
S/L POWER ERROR	Indicates [On/Off] condition of steering lock unit power supply error
VEH SPEED ERROR (S/L)	Indicates [On/Off] condition of vehicle speed signal
VEH SPEED NORMAL (S/L)	Indicates [On/Off] condition of vehicle speed signal
ENGINE RUNNING (S/L)	Indicates [On/Off] condition of engine running
S/L ID DISCORD	Indicates [Correct/Incorrect] condition of ID verification
S/L ANTI-SCAN MODE	Indicates [On/Off] condition of antiscan mode
S/L LOCK NOT PERMIT	Indicates [Inhibition/No inhbt] condition of inhibit steering lock
S/L UNLOCK (CAN)	Indicates [Finished/Unfinished] condition of steering lock unit unlock
S/L ID STATUS (CAN)	Indicates [Coded/Blank] condition of registration ID
S/L RESET STATUS (CAN)	Indicates [Exit/No exit] condition of steering lock unit reset signal
S/L LO-LEVEL MALFUNC (CAN)	Indicates [Malf/No malf] condition of lo-level malfunction
S/L LOCK POSITION (CAN)	Indicates [Armed/Malf/Unlocked/Undefined] condition of lock/unlock position signal
S/L ACT MALFUNCTION (CAN)	Indicates [Malf/No malf] condition of steering lock unit malfunction
S/L HI-LEVEL MALFUNC (CAN)	Indicates [Malf/No malf] condition of hi-level malfunction
S/L OPERATION PRHBT (SPD)	Indicates [On/Off] condition of vehicle speed signal
S/L OPERATION PRHBT (PWR)	Indicates [Allowed/Forbid] condition of safety line inhibition
S/L SENSOR POWER (CAN)	Indicates [On/Off] condition of sensor test power supply
S/L SEN TEST PERMIT (CAN)	Indicates [Forbid/Authorize] condition of sensor test
S/L STAT NOT DETECT (CAN)	Indicates [Ok/Undefind] condition of steering lock undefined position signal
S/L LOCKING FINISHED (CAN)	Indicates [Unfinshd/Finished] condition of steering lock unit lock status signal
STOP/START SW	Indicates [On/Off] condition of stop/start off switch
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	<b>NOTE:</b> This item is displayed, but cannot be monitored
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key
RKE PBD	Indicates [On/Off] condition of back door open request signal from Intelligent Key

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item	Condition
KEY SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
IGN SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
START SW	<b>NOTE:</b> This item is displayed, but cannot be monitored

\*1: It is displayed but does not operate on CVT models.

\*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

## ACTIVE TEST

Test item	Description
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>Buzzer 1: Combination meter buzzer sounds (pipipi...) when CONSULT screen is touched</li> <li>Buzzer 2: Combination meter buzzer sounds (pipi-pipi...) when CONSULT screen is touched</li> <li>Buzzer 3: Combination meter buzzer sounds (pipipipi-pipipipi...) 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: [Intelligent Key system malfunction] displays 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>
FLASHER	This test is able to check security hazard lamp operation The hazard lamps are activated after "LH/RH/Off" on CONSULT screen is touched
HORN	<b>NOTE:</b> This item is displayed, but cannot be used
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) <ul style="list-style-type: none"> <li>On: Operates</li> <li>Off: Non-operation</li> </ul>
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation Push-ignition switch illumination illuminates when "ON" on CONSULT screen is touched
ENGINE START REQUEST	This test is able to check BCM sends starter request signal to IPDM E/R via CAN communication <ul style="list-style-type: none"> <li>MODE 1: IGN ON, START request OFF</li> <li>MODE 2: IGN OFF, START request ON</li> <li>MODE 3: IGN ON, START request ON</li> <li>Off: Non-operation</li> </ul>
IGNITION RELAY	<b>NOTE:</b> This item is displayed, but cannot be used
STARTER CUT RELAY	This test is able to operate the starter control relay <ul style="list-style-type: none"> <li>On: Operates</li> <li>Off: Non-operation</li> </ul>
ENGINE START	<b>NOTE:</b> This item is displayed, but cannot be used
TRUNK/BACK DOOR	<b>NOTE:</b> This item is displayed, but cannot be used
RETRACTABLE MIRROR	<b>NOTE:</b> This item is displayed, but cannot be used
AUTO ACC 2	This test is able to check BCM sends power supply to audio unit or NAVI control unit <ul style="list-style-type: none"> <li>On: Operate</li> <li>Off: Non-operation</li> </ul>

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## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

Test item	Description
AUTOMATIC BACK DOOR	<b>NOTE:</b> This item is displayed, but cannot be used
AUTO ACC 1	This test is able to check BCM sends power supply to ignition relay <ul style="list-style-type: none"> <li>• On: Operate</li> <li>• Off: Non-operation</li> </ul>
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk/luggage room lamp operation <ul style="list-style-type: none"> <li>• On: Operates</li> <li>• Off: Non-operation</li> </ul>

## COMB SW

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

INFOID:0000000010688597

### 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/AUTO switch in combination switch judged by BCM with the combination switch reading function.
INT VOLUME [1 - 7]	Displays the status of wiper volume 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.
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 [Off/On]	Displays the status of the HEADLAMP switch in combination switch judged by BCM with the combination switch reading function.
LIGHT OFF SW [Off/On]	Displays the status of the LIGHT OFF 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.

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item [UNIT]	Description
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.
RR FOG SW [Off/On]	Displays the status of the RR FOG switch in combination switch judged by BCM with the combination switch reading function.

## BCM

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

INFOID:0000000010688598

## WORK SUPPORT

Item	Description
RESET SETTING VALUE	Return a value set with Work Support of each system to a default value in factory shipment.
AUTO ACC FNCTN (AUDIO/NAVI SET AFTER IGN OFF)	Switches the operation of audio and navigation systems between continuous and not continuous after ignition is OFF.

## IMMU

### IMMU : CONSULT Function (BCM - IMMU) (With Intelligent Key System)

INFOID:0000000011008725

## 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
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.

## WORK SUPPORT

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

## 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 touched.

### IMMU : CONSULT Function (BCM - IMMU) (Without Intelligent Key System)

INFOID:0000000011008726

## WORK SUPPORT

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

## 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 touched.

## BATTERY SAVER

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## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

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

INFOID:0000000011008732

#### 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]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK [On/Off]	Indicated [On/Off] condition of back door switch
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock and unlock switch
KEY CYL LK-SW [On/Off]	<b>NOTE:</b> This item is displayed, but cannot be monitored
KEY CYL UN-SW [On/Off]	<b>NOTE:</b> This item is displayed, but cannot be monitored
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key or keyfob
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key or keyfob
KEY SW [On/Off]	Indicates [On/Off] condition of key switch

#### ACTIVE TEST

Test item	Operation	Description
BATTERY SAVER	ON	Turns interior room lamp relay ON.
	OFF	Turns interior room lamp relay OFF.

#### TRUNK

#### TRUNK : CONSULT Function (BCM - TRUNK) (With Intelligent Key System and Super Lock)

INFOID:0000000011008719

#### 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	Contents
PUSH SW	Indicates [On/Off] condition of push switch
STARTER CUT RELAY	Indicates [On/Off] condition of starter control relay
DETECTION SENSOR (BK)	<b>NOTE:</b> This item is displayed, but cannot be monitored
VEH SPEED 1	Indicates [Km/h] condition of vehicle speed signal from combination meter
KEY CYL SW-TR	<b>NOTE:</b> This item is displayed, but cannot be monitored
TR CANCEL SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
TRUNK LID OPENER SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
BACK DOOR OPENER SW	Indicates [On/Off] condition of back door opener switch
RKE-TR/BD	<b>NOTE:</b> This item is displayed, but cannot be monitored

## TRUNK : CONSULT Function (BCM - TRUNK) (With Intelligent Key System, Without Super Lock)

INFOID:0000000011008720

### 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
STARTER CUT RELAY	Indicates [On/Off] condition of starter control relay
DETECTION SENSOR (BK)	Indicates [On/Off] condition of hands free sensor
VEH SPEED 1	Indicates [Km/h] condition of vehicle speed signal from combination meter
KEY CYL SW-TR	<b>NOTE:</b> This item is displayed, but cannot be monitored
TR CANCEL SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
TRUNK LID OPENER SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
BACK DOOR OPENER SW	Indicates [On/Off] condition of back door opener switch
RKE-TR/BD	<b>NOTE:</b> This item is displayed, but cannot be monitored

## TRUNK : CONSULT Function (BCM - TRUNK) (Without Intelligent Key System, With Super Lock)

INFOID:0000000011008721

### 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
STARTER CUT RELAY	Indicates [On/Off] condition of starter control relay
KEY CYL SW-TR	<b>NOTE:</b> This item is displayed, but cannot be monitored

## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

Monitor Item	Contents
TR CANCEL SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
TRUNK LID OPENER SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
BACK DOOR OPENER SW	Indicates [On/Off] condition of back door opener switch
RKE-TR/BD	<b>NOTE:</b> This item is displayed, but cannot be monitored

### TRUNK : CONSULT Function (BCM - TRUNK) (Without Intelligent Key System and Super Lock)

INFOID:0000000011008722

#### 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
STARTER CUT RELAY	Indicates [On/Off] condition of starter control relay
KEY CYL SW-TR	<b>NOTE:</b> This item is displayed, but cannot be monitored
TR CANCEL SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
TRUNK LID OPENER SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
BACK DOOR OPENER SW	Indicates [On/Off] condition of back door opener switch
RKE-TR/BD	<b>NOTE:</b> This item is displayed, but cannot be monitored

### THEFT ALM

### THEFT ALM : CONSULT Function (BCM - THEFT) (With Intelligent Key System)

INFOID:0000000011008723

#### DATA MONITOR

**NOTE:**

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

Monitored Item	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 -BD/TR	Indicates [ON/OFF] condition of back door opener request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch
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	<b>NOTE:</b> This item is indicated, but not monitored.

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitored Item	Description
KEY CYL UN-SW	<b>NOTE:</b> This item is indicated, but not monitored.
KEY CYL SW-TR	<b>NOTE:</b> This item is indicated, but not monitored.
SEN CANCEL SW	Indicates [ON/OFF] condition of sensor cancel switch.
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 indicated, but not monitored.
KEY SW	<b>NOTE:</b> This item is indicated, but not monitored.

## WORK SUPPORT

Service Item	Description
SECURITY ALARM SET	This mode is able to confirm and change vehicle security alarm ON-OFF setting.
SIREN SET	Select the siren function ON or OFF, and siren type. <ul style="list-style-type: none"> <li>• MODE 1: Without siren</li> <li>• MODE 2: With siren</li> <li>• MODE 3: With external complete protection (with siren)</li> <li>• MODE 4: Without any external protection (with siren)</li> <li>• MODE 5: Without external tilt protection (with siren)</li> </ul>

## ACTIVE TEST

Test Item	Description
SIREN	Activates the self-diagnosis function for siren control unit.
VEHICLE SECURITY HORN	<b>NOTE:</b> This item is indicated, but not used
HEAD LAMP	<b>NOTE:</b> This item is indicated, but not used

## THEFT ALM : CONSULT Function (BCM - THEFT) (Without Intelligent Key System)

INFOID:0000000011008724

## DATA MONITOR

### NOTE:

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

Monitored Item	Description
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	<b>NOTE:</b> This item is indicated, but not monitored.
KEY CYL UN-SW	<b>NOTE:</b> This item is indicated, but not monitored.

## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

Monitored Item	Description
KEY CYL SW-TR	<b>NOTE:</b> This item is indicated, but not monitored.
SEN CANCEL SW	Indicates [ON/OFF] condition of sensor cancel switch.
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Keyfob.
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Keyfob.
RKE-TR/BD	<b>NOTE:</b> This item is indicated, but not monitored.
KEY SW	Indicates [ON/OFF] condition of Key switch.

### WORK SUPPORT

Service Item	Description
SECURITY ALARM SET	This mode is able to confirm and change vehicle security alarm ON-OFF setting.
SIREN SET	Select the siren function ON or OFF, and siren type. <ul style="list-style-type: none"><li>• MODE 1: Without siren</li><li>• MODE 2: With siren</li><li>• MODE 3: With external complete protection (with siren)</li><li>• MODE 4: Without any external protection (with siren)</li><li>• MODE 5: Without external tilt protection (with siren)</li></ul>

### ACTIVE TEST

Test Item	Description
SIREN	Activates the self-diagnosis function for siren control unit.
VEHICLE SECURITY HORN	<b>NOTE:</b> This item is indicated, but not used
HEAD LAMP	<b>NOTE:</b> This item is indicated, but not used

### SIGNAL BUFFER

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

INFOID:0000000010688605

#### 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.

# ECU DIAGNOSIS INFORMATION

## BCM

### Reference Value

INFOID:0000000010688606

### 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
CONFIRM ID ALL	The Intelligent Key ID that the NATS antenna amp. receives is not recognized by any Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the NATS antenna amp. receives is recognized by any Intelligent Key ID registered to BCM.	Done
CONFIRM ID4	The Intelligent Key ID that the NATS antenna amp. receives is not recognized by the fourth Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the NATS antenna amp. receives is recognized by the fourth Intelligent Key ID registered to BCM.	Done
CONFIRM ID3	The Intelligent Key ID that the NATS antenna amp. receives is not recognized by the third Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the NATS antenna amp. receives is recognized by the third Intelligent Key ID registered to BCM.	Done
CONFIRM ID2	The Intelligent Key ID that the NATS antenna amp. receives is not recognized by the second Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the NATS antenna amp. receives is recognized by the second Intelligent Key ID registered to BCM.	Done
CONFIRM ID1	The Intelligent Key ID that the NATS antenna amp. receives is not recognized by the first Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the NATS antenna amp. receives is recognized by the first Intelligent Key ID registered to BCM.	Done
NOT REGISTERED	BCM detects registered Intelligent Key ID, or BCM does not detect Intelligent Key ID.	ID OK
	BCM detects non-registration Intelligent Key ID.	ID NG
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	Done
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 -BD/TR	Trunk lid opener request switch is not pressed	Off
	Trunk lid opener 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

# BCM

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
STARTER CUT RELAY	Other than engine cranking	Off
	At engine cranking	On
DETECTION SENSOR (BK)	Hands free sensor is not detected.	Off
	Hands free sensor is detected.	On
CLUCH SW	The clutch pedal is not depressed.	Off
	The clutch pedal is depressed	On
BRAKE SW 1	The brake pedal is not depressed and ignition switch ON	Off
	The brake pedal is depressed and ignition switch ON	On
BRAKE SW 2	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position	Off
	Selector lever in any position other than P	On
START CLUTCH SW	The clutch pedal is depressed	Off
	The clutch pedal is not depressed	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	Power position in OFF or ACC	Off
	Power position in ON	On
NEUTRAL SW - IPDM	<ul style="list-style-type: none"> <li>Selector lever in any position other than P or N (CVT models)</li> <li>Control lever in any position other than neutral (M/T models)</li> </ul>	Off
	<ul style="list-style-type: none"> <li>Selector lever in P or N position (CVT models)</li> <li>Control lever in neutral position (M/T models)</li> </ul>	On
SFT PN -IPDM	Selector lever in any position other than P or N	Off
	Selector lever in P or N position	On
STARTER RELAY - IPDM	Other than engine cranking	Off
	At engine cranking (short cranking)	Crank
	Operation prohibited status	Invalid
	At engine cranking	On
ENGINE STATE	Engine stopped	STOP
	While the engine stalls	STALL
	At engine cranking	CRANK
	Engine running	RUN
ST/INHI RELAY - IPDM	Power position in OFF	Off, Off
	Engine restart	Off, On
	At engine cranking	INVALID
	Engine running	On, On
REVERSE SIGNAL - IPDM	Selector lever in any position other than R position	Off
	Selector lever in R position	On
CRANKING PERMIT - ECM	The engine start is prohibited	PRHBT
	The engine start is permitted	PERMIT
	When it is stopped requested during engine start	STOP
	When not communication with ECM	Off
IS STATUS - ECM	Stop/start system not operating	Off
	Stop/start system operating	On

# BCM

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
STARTER CUT RELAY - ECM	Other than engine cranking	Off	A
	At engine cranking	On	
VEH SPEED 1	While driving	Equivalent to speedometer reading	B
VEH SPEED 2	While driving	Equivalent to speedometer reading	C
IGN REQ - IPDM	Power position in OFF or ACC	Off	D
	Power position in ON	On	
STARTER REQ - IPDM	Other than engine cranking	Off	E
	At engine cranking	On	
DOOR STAT-DR	Driver door is locked	LOCK	F
	Driver door is unlocked	UNLOCK	
DOOR STAT-AS	Passenger door is locked	LOCK	G
	Passenger door is unlocked	UNLOCK	
DOOR STAT-RR	Rear door RH is locked	LOCK	H
	Rear door RH is unlocked	UNLOCK	
DOOR STAT-RL	Rear door LH is locked	LOCK	I
	Rear door LH is unlocked	UNLOCK	
BK DOOR STATE	Back door is locked	LOCK	J
	Back door is unlocked	UNLOCK	
ID OK FLAG	Steering is locked	Reset	K
	Steering is unlocked	Set	
PRMT ENG STRT	When the engine start is prohibited	Reset	L
	When the engine start is permitted	Set	
PRMT RKE STRT	<b>NOTE:</b> The item is indicated, but not monitored.	Reset	BCS
I-KEY OK FLAG	Intelligent Key ID and Intelligent Key is detected outside vehicle	NOT On	
	Intelligent Key ID and Intelligent Key is detected inside vehicle	KEY On	N
PRBT ENG STRT	Not activated fail safe function	Reset	
	Engine start is prohibited by fail safe function	SET	O
ID AUTHENT CANCEL TIMER	Engine start is prohibited without Intelligent Key	STOP	
	Engine start is permitted without Intelligent Key	OPRAT	P
ACC BATTERY SAVER	ACC battery saver timer is stop	STOP	
	ACC battery saver timer is running	OPRAT	
CRNK PRBT TMR	Cranking is permitted	Off	
	Cranking is prohibited	On	
AUT CRANK TMR	Not auto cranking	Off	
	During auto cranking	On	
CRNK PRBT TME	Cranking prohibit timer	sec	
AUT CRANK TMR	Auto cranking timer	sec	
CRANKING TME	Cranking timer	sec	
SHORT CRANK	<b>NOTE:</b> The item is indicated, but not monitored.	—	
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key	

# BCM

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
RKE OPE COUN2	<b>NOTE:</b> The item is indicated, but not monitored.	—
S/L IGN OFF POSITION	Power position in ON	Off
	Power position in OFF or ACC	On
S/L SENSOR CIRCUIT 1	Steering lock unit is not operated	GND
	Steering is lock unit is operated	On
S/L SENSOR CIRCUIT 2	Steering lock unit is not operated	Off
	Steering is lock unit is operated	On
S/L POWER OUTPUT	Steering lock unit is operated	Off
	Steering is lock unit is not operated	On
S/L POWER CHECK	Steering lock unit is operated	Off
	Steering is lock unit is not operated	On
ANTICIPATED POWER	Not outputs the steering lock unit anticipated power supply	Off
	Outputs the steering lock unit anticipated power supply	On
S/L LOCK REQ	Steering lock unit is not operated	Off
	Steering is lock unit is operated	On
S/L - BCM (CAN)	When not communication between BCM and steering lock unit	Off
	When communication between BCM and steering lock unit	On
S/L POWER ERROR	Steering lock unit power supply is normal	Off
	Steering lock unit power supply is malfunction	On
VEH SPEED ERROR (S/L)	Power position ON and steering is unlocked	Off
	Power position ON and steering is locked	On
VEH SPEED NORMAL (S/L)	While the vehicle is stopped	Off
	While the vehicle is running	On
ENGINE RUNNING (S/L)	Engine stopped	Off
	Engine running	On
S/L ID DISCORD	When the BCM and steering lock unit ID becomes consistent	Correct
	When the BCM and steering lock unit ID becomes not consistent	Incorrect
S/L ANTI-SCAN MODE	Steering lock system is normal	Off
	Steering lock system is malfunction	On
S/L LOCK NOT PERMIT	Power position in OFF	No inhbt
	Power position in ACC or ON	Inhibition
S/L UNLOCK (CAN)	Steering is locked	Unfinshd
	Steering is unlocked	Finished
S/L ID STATUS (CAN)	The ID of steering lock unit is registered	Coded
	The ID of steering lock unit is not registered	Blank
S/L RESET STATUS (CAN)	Steering is unlocked	Exit
	Steering is lock unit is operated (look → unlock)	No exit
S/L LO-LEVEL MALFUNC (CAN)	Steering lock system is normal	No malf
	Steering lock system is malfunction	Malf
S/L LOCK POSITION (CAN)	Steering is locked	Armed
	Steering is unlocked	Malf
	Steering lock system is malfunction	Unlocked
	Steering is lock unit is operated	Undfined



# BCM

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
S/L ACT MALFUNCTION (CAN)	Steering lock unit is normal	No malf	A
	Steering lock unit is malfunction	Malf	
S/L HI-LEVEL MALFUNC (CAN)	Steering lock system is normal	No malf	B
	Steering lock system is malfunction	Malf	
S/L OPERATION PRHBT (SPD)	When the steering lock unit receives the lock/unlock request signal to the vehicle stopped	0 km/h	C
	When the steering lock unit receives the lock/unlock request signal to the vehicle running	> 0 km/h	
S/L OPERATION PRHBT (PWR)	Steering lock system is normal	Allowed	D
	Steering lock system is malfunction	Forbid	
S/L SENSOR POWER (CAN)	Steering lock unit is not operated	On	E
	Steering is lock unit is operated	Off	
S/L SEN TEST PERMIT (CAN)	Steering lock system is normal	Forbid	F
	Steering lock system is malfunction	Authorize	
S/L STAT NOT DETECT (CAN)	Steering is locked	OK	G
	Steering is unlocked	Undfinshd	
S/L LOCKING FINISHED (CAN)	Steering is unlocked	Unfinshd	H
	Steering is locked	Finished	
FR WIPER HI	Other than front wiper switch HI	Off	I
	Front wiper switch HI	On	
FR WIPER LOW	Other than front wiper switch LO	Off	J
	Front wiper switch LO	On	
FR WASHER SW	Front washer switch OFF	Off	K
	Front washer switch ON	On	
FR WIPER INT	Other than front wiper switch INT/AUTO	Off	L
	Front wiper switch INT/AUTO	On	
FR WIPER STOP	Front wiper is not in STOP position	Off	N
	Front wiper is in STOP position	On	
INT VOLUME	Wiper volume dial is in a dial position	Wiper volume dial position	O
RR WIPER ON	Other than rear wiper switch ON	Off	P
	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	Off	
	Lighting switch 1ST	On	

BCS

# BCM

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
HEAD LAMP SW	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
LIGHT OFF SW	Other than lighting switch OFF	Off
	Lighting switch OFF	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
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
RR FOG SW	Rear fog lamp switch OFF	Off
	Rear fog lamp switch ON	On
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
DOOR SW-BK	Back door closed	Off
	Back door opened	On
CDL LOCK SW	Other than power door lock switch LOCK	Off
	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
	Power door lock switch UNLOCK	On
KEY CYL LK-SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off
KEY CYL UN-SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off
KEY CYL SW-TR	<b>NOTE:</b> The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
H/L WSR SW	Headlamp washer switch OFF	Off
	Headlamp washer switch ON	On
TR CANCEL SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off
TRUNK LID OPENER SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off
BACK DOOR OPENER SW	Back door opener switch OFF	Off
	Back door opener switch ON	On

# BCM

## < ECU DIAGNOSIS INFORMATION >

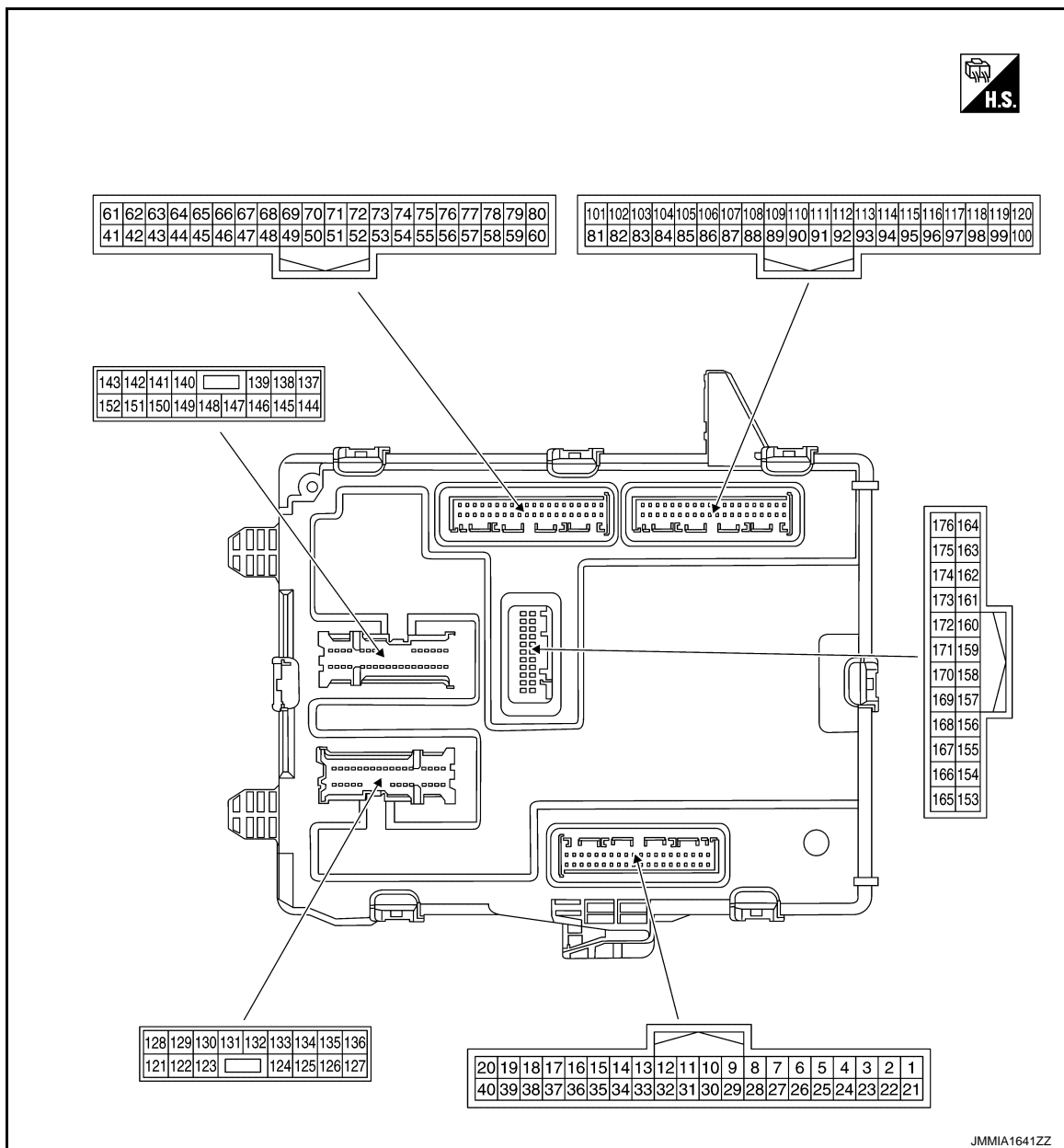
Monitor Item	Condition	Value/Status	
STOP/START SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off	A
SEN CANCEL SW	Sensor cancel switch is not pressed	Off	B
	Sensor cancel switch is pressed	On	
RKE-LOCK	<ul style="list-style-type: none"> <li>LOCK button of the Intelligent Key is not pressed (with Intelligent Key system)</li> <li>LOCK button of the keyfob is not pressed (without Intelligent Key system)</li> </ul>	Off	C
	<ul style="list-style-type: none"> <li>LOCK button of the Intelligent Key is pressed (with Intelligent Key system)</li> <li>LOCK button of the keyfob is pressed (without Intelligent Key system)</li> </ul>	On	D
RKE-UNLOCK	<ul style="list-style-type: none"> <li>UNLOCK button of the Intelligent Key is not pressed (with Intelligent Key system)</li> <li>UNLOCK button of the keyfob is not pressed (without Intelligent Key system)</li> </ul>	Off	E
	<ul style="list-style-type: none"> <li>UNLOCK button of the Intelligent Key is pressed (with Intelligent Key system)</li> <li>UNLOCK button of the keyfob is pressed (without Intelligent Key system)</li> </ul>	On	F
RKE-TR/BD	<b>NOTE:</b> The item is indicated, but not monitored.	Off	G
RKE-PANIC	<b>NOTE:</b> The item is indicated, but not monitored.	Off	H
RKE-MODE CHG	<b>NOTE:</b> The item is indicated, but not monitored.	Off	
RKE PBD	Power back door button OFF	Off	I
	Power back door button ON	On	
SHOCK SENSOR	Car crash information signal (NORMAL) is detected.	NOMAL	J
	Car crash information signal (AIR BAG OPEN) is detected.	On	
	Car crash information signal is not detected.	Off	
OPTI SEN (DTCT)	Bright outside of the vehicle	Close to 5 V	K
	Dark outside of the vehicle	Close to 0 V	
OPTI SEN (FILT)	Bright outside of the vehicle (Lighting switch AUTO)	Close to 5 V	L
	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	No rain (or very light rain)	Off	N
	Light rain	LOW	
	Heavy rain	HIGH	
	When liquid is splashed on the front window	SPLSH	
	Rain sensor internal error	NG	
KEY SW	Mechanical key is removed from key cylinder	Off	O
	Mechanical key is inserted to key cylinder	On	
IGN SW	Other than power position in ON	Off	P
	Power position in ON	On	
START SW	Other than power position in START	Off	
	Power position in START	On	

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< ECU DIAGNOSIS INFORMATION >

## TERMINAL LAYOUT



## PHYSICAL VALUES

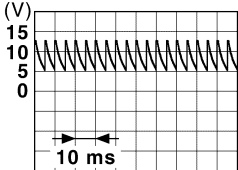
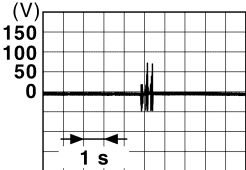
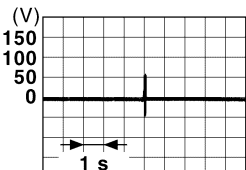
### NOTE:

Waveform reference

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
6*2 (R)	Ground	Back door opener request switch	Input	Back door re- quest switch	ON (Pressed)	0 – 0.5 V
					OFF (Not pressed)	9 – 16 V
9*1 (G)	Ground	Hands free sensor	Input	Hands free sen- sor	Hold up hands to detec- tion area	0 – 0.5 V
					Other than above	9 – 16 V

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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
10 (W)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (When rear RH door closed)	9 – 16 V
					ON (When rear RH door opened)	0 – 0.5 V
11 (LG)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	9 – 16 V
					ON (When back door opened)	0 – 0.5 V
12 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (When rear LH door closed)	9 – 16 V
					ON (When rear LH door opened)	0 – 0.5 V
13 (SB)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	9 – 16 V
					ON (When passenger door opened)	0 – 0.5 V
15 (LA/G)	Ground	Rear wiper auto stop	Input	Power position ON	Rear wiper stop position	0 – 0.5 V
					Any position other than rear wiper stop position	 JMMIA1654GB
16 (Y)	Ground	Back door opener switch	Input	Back door opener switch	OFF (Not pressed)	9 – 16 V
					ON (Pressed)	0 – 0.5 V
17 (SB)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	9 – 16 V
					ON (When driver door opened)	0 – 0.5 V
20 (L)	Ground	CAN-H (CAN communication circuit 1)	Input/ Output	—		—
21*2 (BR)	Ground	Rear bumper antenna (-)	Input	Power position ON and any door is open	Intelligent Key is outside the vehicle	 JMMIA1652GB
					Intelligent Key is inside the vehicle	 JMMIA1653GB

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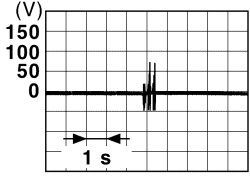
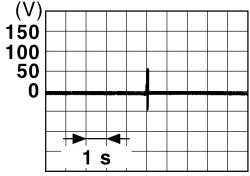
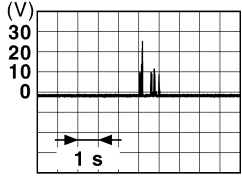
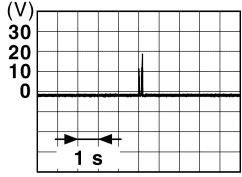
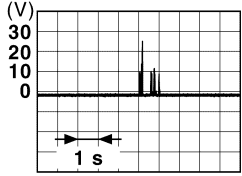
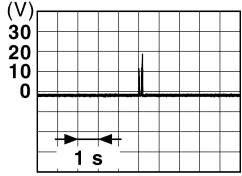
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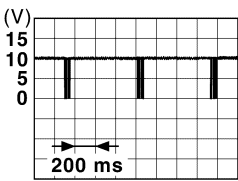
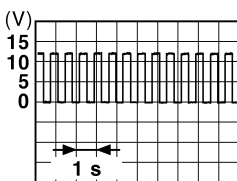
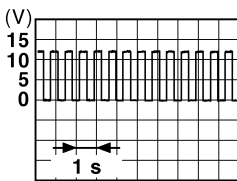
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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
22*2 (Y)	Ground	Inside key antenna (Luggage room) (-)	Input	Power position ON and any door is open	Intelligent Key is outside the vehicle	 JMMIA1652GB
					Intelligent Key is inside the vehicle	 JMMIA1653GB
23*2 (L)	Ground	Inside key antenna (Luggage room) (+)	Output	Power position ON and any door is open	Intelligent Key is outside the vehicle	 JSMIA1507GB
					Intelligent Key is inside the vehicle	 JSMIA1506GB
24*2 (G)	Ground	Rear bumper anten- na (+)	Output	Power position ON and any door is open	Intelligent Key is outside the vehicle	 JSMIA1507GB
					Intelligent Key is inside the vehicle	 JSMIA1506GB

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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
38 (V)	Ground	Alarm link	Output	Disarmed phase		0 V
				Armed phase		 JSMIA1405GB
39 (LA/W)	Ground	High-mounted stop lamp output	Output	Brake pedal is not depressed		0 V
				Brake pedal is depressed		9 – 16 V
40 (P)	Ground	CAN-L (CAN com- munication circuit 1)	Input/ Output	—		—
41*2 (V)	Ground	Steering lock unit power supply output	Output	Steering lock unit	Activated	9 – 16 V
					Not activated	0 – 0.5 V
42 (LA/G)	Ground	Turn signal LH out- put (Side)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKID0926E 6.5 V (Turn signal lamp turn on: 9 - 16 V)
43 (LA/Y)	Ground	Turn signal RH out- put (Side)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V (Turn signal lamp turn on: 9 - 16 V)
44 (P)	Ground	Interior room lamp relay control	Output	Interior room lamp battery saver is activated		9 – 16 V
				Interior room lamp battery saver is not acti- vated		0 V
45 (R)	Ground	CAN-L (CAN com- munication circuit 2)	Input/ Output	—		—
46 (L)	Ground	CAN-H (CAN com- munication circuit 2)	Input/ Output	—		—

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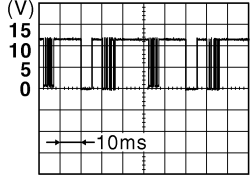
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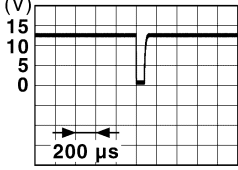
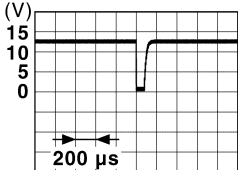
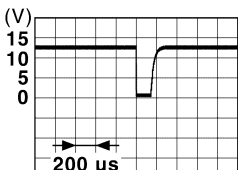
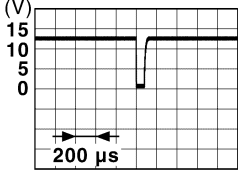
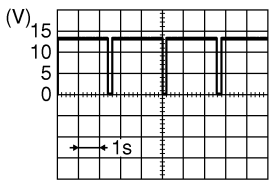
## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
47 (G)	Ground	Rain sensor serial link	Input/ Output	Power position OFF		12 V
				Power position ON		 8.7 V
48 (L)	Ground	CAN-H (CAN com- munication circuit 2)	Input/ Output	—		—
49 (R)	Ground	CAN-L (CAN com- munication circuit 2)	Input/ Output	—		—
50 (BG)	Ground	Door lock and unlock switch LOCK	Input	Door lock and unlock switch	NEUTRAL position	9 – 16 V
					LOCK position	0 V
51 (Y)	Ground	Hazard switch	Input	Hazard switch	OFF	9 – 16 V
					ON	0 V
57 (L)	Ground	Detention switch power supply	Output	Power position	ACC or ON	9 – 16 V
					OFF	0 – 0.5 V
60 (R)	Ground	Headlamp washer switch	Input	Headlamp washer switch	Pressed	0 V
					Not pressed	9 – 16 V
63 (G)	Ground	Power window relay control	Output	Power position	OFF or ACC	9 – 16 V
					ON	0 – 0.5 V
64 (LA/R)	Ground	Rear window defog- ger relay control	Output	Rear window defogger	Not activated	9 – 16 V
					Activated	0 – 1.5 V
65 (BR)	Ground	ACC relay control	Output	Power position	OFF	9 – 16 V
					ACC or ON	0 – 0.5 V
67 (Y)	Ground	Ignition relay (J/B) control	Output	Power position	OFF or ACC	9 – 16 V
					ON	0 – 0.5 V
68 (LA/W)	Ground	Blower relay control	Output	Power position	OFF or ACC	9 – 16 V
					ON	0 – 0.5 V



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## < ECU DIAGNOSIS INFORMATION >

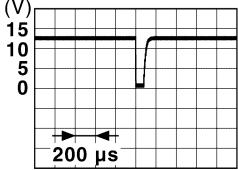
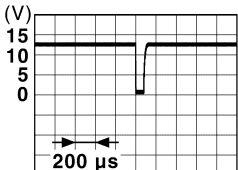
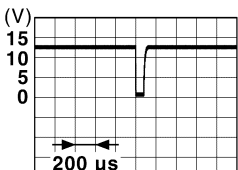
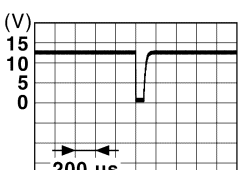
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
73 (LG)	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper volume dial 3)	12 V
					Rear wiper switch ON (Wiper volume dial 3)	 JMMIA1642GB
					Wiper volume dial 1 (All switches OFF)	
					Rear wiper switch INT (Wiper volume dial 3)	 JMMIA1643GB
					Wiper volume dial 4 (All switches OFF)	
					Wiper volume dial 5 (All switches OFF)	 JMMIA1644GB
74 (Y)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Lighting switch 2ND (Wiper volume dial 3)	0 V
					All switch OFF (Wiper volume dial 3)	 JMMIA1642GB
					Lighting switch 1ST (Wiper volume dial 3)	
					Front fog lamp switch ON (Lighting switch 2ND)	
					Turn signal switch RH (Lighting switch 2ND)	
75 (BG)	Ground	Security indicator lamp control	Output	Security indica- tor lamp	ON	0 – 0.5 V
					Blinking	 JPMIA0590GB
					OFF	12 V
						9 – 16 V

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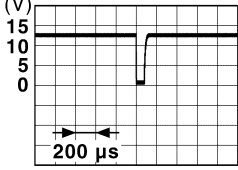
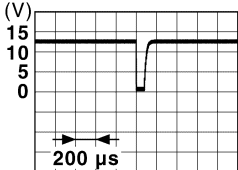
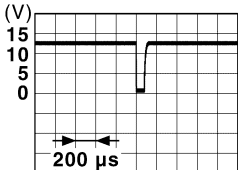
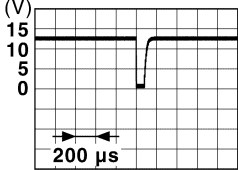
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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
76 (G)	Ground	Combination switch INPUT 3	Input	Combination switch (Wiper volume dial 3)	All switches OFF	12 V
					Front washer switch ON	 JMMIA1643GB
					Rear washer switch ON	
					Turn signal switch LH	
					Turn signal switch RH	 JMMIA1642GB
77 (GR)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 2ND (Wiper volume dial 3)	12 V
					All switches OFF (Wiper volume dial 3)	 JMMIA1642GB
					Front wiper switch INT/ AUTO (Lighting switch 2ND)	
					Front wiper switch LO (Lighting switch 2ND)	 JMMIA1643GB
					Front wiper switch MIST (Lighting switch 2ND)	
					Front wiper switch HI (Lighting switch 2ND)	

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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
78 (V)	Ground	Combination switch INPUT 1	Input	Combination switch	All switches OFF (Wiper volume dial 3)	12 V
					Front fog lamp switch ON (Wiper volume dial 3)	 JMMIA1642GB
					Lighting switch HI (Lighting switch 2ND)	
					Lighting switch PASS (Wiper volume dial 3)	 JMMIA1643GB
79 (W)	Ground	Combination switch INPUT 2	Input	Combination switch	Rear fog lamp switch ON (Wiper volume dial 3)	
					All switches OFF (Wiper volume dial 3)	12 V
					Wiper volume dial 1 (All switches OFF)	 JMMIA1642GB
					Lighting switch 1ST (Wiper volume dial 3)	
					Lighting switch 2ND (Wiper volume dial 3)	 JMMIA1643GB
					Lighting switch AUTO (Wiper volume dial 3)	
					Wiper volume dial 2 (All switches OFF)	
80 (SB)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and unlock switch	NEUTRAL position	9 – 16 V
					UNLOCK position	0 V
81*3 (L)	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder		9 – 16 V
				Remove mechanical key from ignition key cylinder		0 V
82*2 (W)	Ground	Passenger door re- quest switch	Input	Passenger door request switch	ON (Pressed)	0 – 0.5 V
					OFF (Not pressed)	9 – 16 V
82*3 (LA/R)	Ground	Key switch (START)	Input	Power position	START	9 – 16 V
					Other than START	0 – 0.5 V

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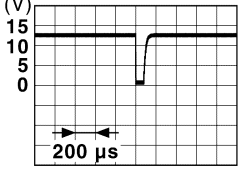
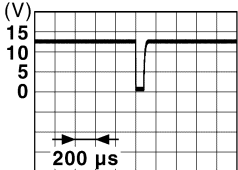
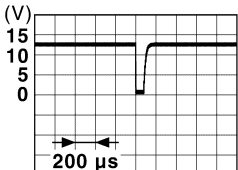
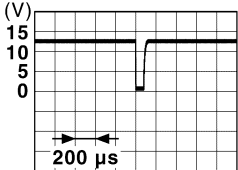
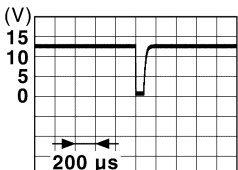
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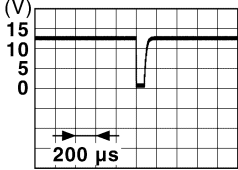
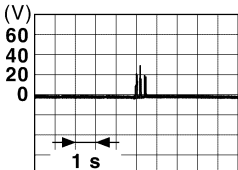
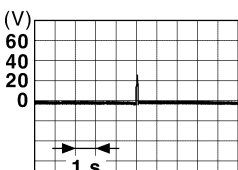
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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
84 (BR)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper volume dial 3)	0 V
					Lighting switch HI (Lighting switch 2ND)	 JMMIA1643GB
					Front wiper switch HI (Lighting switch 2ND)	
					Rear washer switch ON (Wiper volume dial 3)	
					Wiper volume dial 4 (All switches OFF)	
					Wiper volume dial 5 (All switches OFF)	 JMMIA1642GB
85 (SB)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper volume dial 3)	0 V
					Front washer switch ON (Wiper volume dial 3)	 JMMIA1643GB
					Front wiper switch MIST (Wiper volume dial 3)	
					Front wiper switch LO (Wiper volume dial 3)	
					Wiper volume dial 2 (All switches OFF)	
					Wiper volume dial 5 (All switches OFF)	 JMMIA1642GB
					Wiper volume dial 1 (All switches OFF)	
86 (P)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper volume dial 3)	All switches OFF	0 V
					Lighting switch 2ND	 JMMIA1643GB
					Lighting switch PASS	
					Front wiper switch INT/ AUTO	
					Rear wiper switch INT	

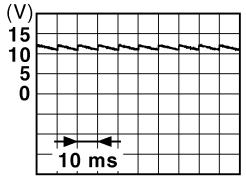
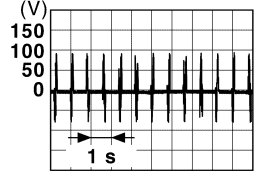
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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
87 (BG)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper volume dial 3)	All switches OFF	0 V
					Lighting switch AUTO	
					Rear fog lamp switch ON	
					Turn signal switch LH	
					Rear wiper switch ON	
88*2 (W)	Ground	Push-button ignition switch illumination power supply	Output	Push-button ig- nition switch illu- mination	OFF	0 V
					ON	12 V
90*2 (Y)	Ground	Steering lock condi- tion	Input	Steering lock unit	Activated	9 – 16 V
					Not activated	0 – 0.5 V
94 (G)	Ground	Detention switch	Input	Selector lever	P position (Release selec- tor button)	0 – 0.5 V
					Any position other than P	9 – 16 V
95 (V)	Ground	Extended storage fuse switch	Input	Extended stor- age fuse switch	OFF	0 – 0.5 V
					ON (Power position OFF)	9 – 16 V
99 (R)	Ground	Stop/start OFF switch	Input	Stop/start OFF switch	Pressed	0 – 0.5 V
					Not pressed	9 – 16 V
100*2 (V)	Ground	Driver door antenna (+)	Output	Power position ON and any door is open	Intelligent Key is outside the vehicle	
					Intelligent Key is inside the vehicle	
101*2 (Y)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ig- nition switch (push switch)	Pressed	0 – 0.5 V
					Not pressed	9 – 16 V
104 (R)	Ground	Front door lock as- sembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sen- sor switch OFF)	9 – 16 V
					UNLOCK status (Unlock sensor switch ON)	0 – 0.5 V
105*2 (Y)	Ground	Driver door request switch	Input	Driver door re- quest switch	ON (Pressed)	0 – 0.5 V
					OFF (Not pressed)	9 – 16 V
105*3 (Y)	Ground	Key switch (IPDM E/ R)	Input	Power position	ON	0 – 0.5 V
					OFF	9 – 16 V

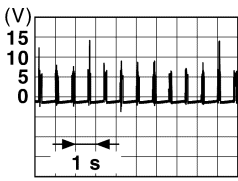
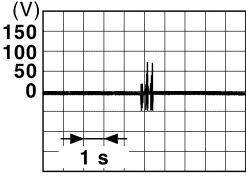
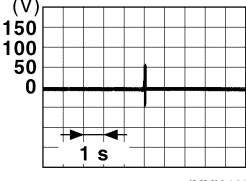
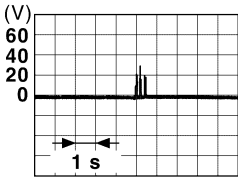
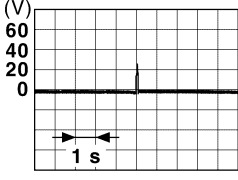
# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
106 (W)	Ground	ACC output	Output	Power position	ACC or ON	0 – 0.5 V
					OFF	3.15 V
107 (V)	Ground	Sensor cancel switch	Input	Sensor cancel switch	OFF (Not pressed)	 <p>JPMIA0011GB</p>
					ON (Pressed)	
109*3 (P)	Ground	NATS antenna amp.	Input/ Output	Just after inserting ignition key in key cylinder		Pointer of tester should move
				Other than above		0 V
110 (BG)	Ground	Dimmer signal	Output	Power position ON	Either of the following conditions	0 V
					<ul style="list-style-type: none"> <li>• Lighting switch OFF</li> <li>• Bright outside of the vehicle (Lighting switch AUTO)</li> </ul>	
					Either of the following conditions	12 V
					<ul style="list-style-type: none"> <li>• Lighting switch 1ST or 2ND</li> <li>• Dark outside of the vehicle (Lighting switch AUTO)</li> </ul>	
111 (R)	Ground	Door lock status indicator lamp	Output	Door lock status indicator lamp	OFF	0 V
					ON	12 V
112 (SB)	Ground	Stop/start OFF switch indicator	Output	Stop/start OFF switch indicator	ON	0 – 0.5 V
					OFF	9 – 16 V
113*3 (LG)	Ground	NATS antenna amp.	Input/ Output	Just after inserting ignition key in key cylinder		Pointer of tester should move
				Other than above		0 V
114*2 (Y)	Ground	NATS antenna amp.	Input/ Output	Intelligent Key battery is removed and brake pedal is depressed	When a registered Intelligent Key backside is contacted to push-button ignition switch	0 V
				Other than above		 <p>JMMIA1650GB</p>

# BCM

## < ECU DIAGNOSIS INFORMATION >

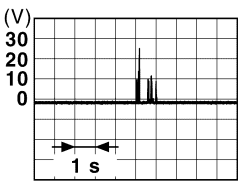
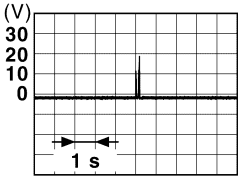
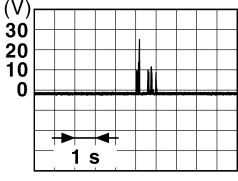
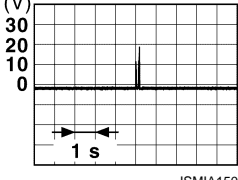
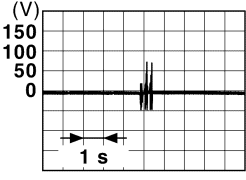
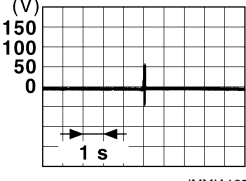
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
115*2 (W)	Ground	NATS antenna amp.	Input/ Output		When a registered Intelligent Key backside is contacted to push-button ignition switch	0 V
				Intelligent Key battery is removed and brake pedal is depressed	Other than above	
116*2 (BG)	Ground	Inside key antenna (Console) (-)	Input	Power position ON and any door is open	Intelligent Key is outside the vehicle	
					Intelligent Key is inside the vehicle	
117*2 (GR)	Ground	Inside key antenna (Console) (+)	Output	Power position ON and any door is open	Intelligent Key is outside the vehicle	
					Intelligent Key is inside the vehicle	

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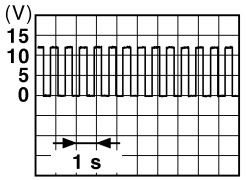
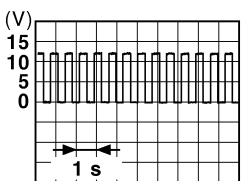
## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
118*2 (SB)	Ground	Passenger door antenna (-)	Input	Power position ON and any door is open	Intelligent Key is outside the vehicle	
					Intelligent Key is inside the vehicle	
119*2 (P)	Ground	Passenger door antenna (+)	Output	Power position ON and any door is open	Intelligent Key is outside the vehicle	
					Intelligent Key is inside the vehicle	
120*2 (BR)	Ground	Driver door antenna (-)	Input	Power position ON and any door is open	Intelligent Key is outside the vehicle	
					Intelligent Key is inside the vehicle	



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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
121 (LA/V)	Ground	Back door open	Output	Back door opener actuator	Activated	9 – 16 V
					Not activated	0 V
122 (Y)	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
					ON	9 – 16 V
123 (LA/R)	Ground	Rear wiper	Output	Power position ON	Rear wiper switch OFF	0 V
					Rear wiper switch ON	9 – 16 V
124 (W)	Ground	Rear door UNLOCK	Output	Rear door	UNLOCK (Actuator is activated)	9 – 16 V
					Other than UNLOCK (Actuator is not activated)	0 V
125 (L)	Ground	Rear door LOCK	Output	Rear door	LOCK (Actuator is activated)	9 – 16 V
					Other than LOCK (Actuator is not activated)	0 V
127 (R)	Ground	Luggage room lamp control	Output	Luggage room lamp	OFF	9 – 16 V
					ON	0 – 0.5 V
129 (LA/W)	Ground	Stop lamp LH output	Output	Brake pedal	Not depressed	0 V
					Depressed	9 – 16 V
131*4 (R)	Ground	Super lock (Rear door)	Output	Super lock actuator (Rear door)	Activated	9 – 16 V
					Not activated	0 V
133 (GR)	Ground	Turn signal LH output (Rear)	Output	Power position ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 <p>PKID0926E</p> <p>6.5 V (Turn signal lamp turn on: 9 - 16 V)</p>
134 (LA/Y)	Ground	Stop lamp RH output	Output	Brake pedal	Not depressed	0 V
					Depressed	9 – 16 V
136 (P)	Ground	Turn signal RH output (Rear)	Output	Power position ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 <p>PKID0926E</p> <p>6.5 V (Turn signal lamp turn on: 9 - 16 V)</p>
137 (W)	Ground	Battery power supply (BCM)	Input	Power position ON		9 – 16 V

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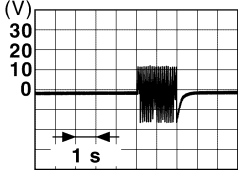
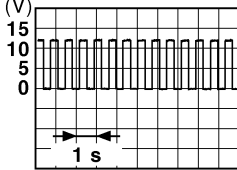
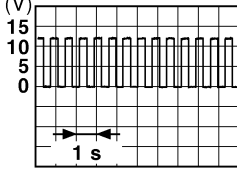
# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
138 (SB)	Ground	Interior room lamp control	Output	Map lamp, room lamp and personal lamp (Door position)	When all doors are closed (Interior room lamp are turned OFF)	9 – 16 V
					Any doors opens (Interior room lamp are turned ON)	0 – 1 V
139 (L)	Ground	Passenger door UN-LOCK	Output	Passenger door	UNLOCK (Actuator is activated)	9 – 16 V
					Other than UNLOCK (Actuator is not activated)	0 V
141 (V)	Ground	Front doors LOCK	Output	Front doors	LOCK (Actuator is activated)	9 – 16 V
					Other than LOCK (Actuator is not activated)	0 V
143 (LA/V)	Ground	Battery power supply (Front door lock actuator)	Input	Power position ON		9 – 16 V
144 (BG)	Ground	Battery power supply (Turn signal lamp)	Input	Power position ON		9 – 16 V
145 (GR)	Ground	Battery power supply (Stop lamp)	Input	Power position ON		9 – 16 V
146 (B)	Ground	Ground	—	Power position OFF		0 V
147 (B)	Ground	Ground	—	Power position OFF		0 V
148 (G)	Ground	Driver door UN-LOCK	Output	Driver door	UNLOCK (Actuator is activated)	9 – 16 V
					Other than UNLOCK (Actuator is not activated)	0 V
149*4 (W)	Ground	Super lock (Front door)	Output	Super lock actuator (Front door)	Activated	9 – 16 V
					Not activated	0 V
151 (R)	Ground	Battery power supply (Rear door lock actuator)	Input	Power position ON		9 – 16 V
152 (LG)	Ground	Battery power supply (Rear wiper)	Input	Power position ON		9 – 16 V
156 (V)	Ground	Clutch interlock switch	Input	Clutch interlock switch	OFF (Clutch pedal is depressed)	9 – 16 V
					ON (Clutch pedal is not depressed)	0 – 0.5 V
157 (LG)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is depressed)	9 – 16 V
158 (W)	Ground	Stop lamp switch 1	Input	Power position ON	Stop lamp switch OFF (Brake pedal is not depressed)	9 – 16 V
					Stop lamp switch ON (Brake pedal is depressed)	0 V

# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
159 (R)	Ground	Clutch pedal position switch	Input	Clutch pedal position switch	OFF (Clutch pedal is depressed)	9 – 16 V
					ON (Clutch pedal is not depressed)	0 – 0.5 V
164*2 (Y)	Ground	Intelligent Key warning buzzer	Output	Intelligent Key warning buzzer	Sounding <b>NOTE:</b> The pulse cycle changes depending on buzzer sounds.	
					Not sounding	0 – 0.5 V
166*2 (P)	Ground	Steering lock unit power supply	Input	Power position	OFF or ACC	9 – 16 V
					ON	0 – 0.5 V
167 (BR)	Ground	Turn signal LH output (Front)	Output	Power position ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 6.5 V (Turn signal lamp turn on: 9 - 16 V)
168 (GR)	Ground	Turn signal RH output (Front)	Output	Power position ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 6.5 V (Turn signal lamp turn on: 9 - 16 V)
170 (L)	Ground	PTC relay-3 control	Output	PTC heater	"HIGH" operation	9 – 16 V
					Other than above	0 – 0.1 V
171 (G)	Ground	Starter relay control	Output	Starter motor	At engine cranking	0 – 0.1 V
					Other than above	9 – 16 V
172 (V)	Ground	PTC relay-1 control signal	Output	PTC heater	OFF	9 – 16 V
					"LOW", "MID" or "HIGH" operation	0 – 0.1 V
173 (BG)	Ground	PTC relay-2 control signal	Output	PTC heater	"MID" or "HIGH" operation	0 – 0.1 V
					Except above	9 – 16 V

\*1: With automatic back door

\*2: With Intelligent Key system

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### < ECU DIAGNOSIS INFORMATION >

\*3: Without Intelligent Key system

\*4: RHD models

## Fail-safe

INFOID:0000000010688607

### FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe
B2190-00: CHAIN OF BCM-IMM ANT	Inhibit engine cranking
B2191-00: ID DISCORD, BCM-IMMANT	Inhibit engine cranking
B2192-00: ID DISCORD BCM-ECM	Inhibit engine cranking
B2193-00: CHAIN OF BCM-ECM	Inhibit engine cranking
B2195-00: ANTI-SCANNING	Inhibit engine cranking
B2196-00: DONGLE NG	Inhibit engine cranking
B2198-00: NATS ANTENNA AMP	Inhibit engine cranking
B2557-00: VEHICLE SPEED	Inhibit steering lock
B2602-00: SHIFT POSITION	Inhibit steering lock
B2604-00: PNP/CLUTCH SW	Inhibit steering lock
B2608-00: STARTER RELAY	Inhibit engine cranking
B260F-00: ENG STATE SIG LOST	Inhibit engine cranking
B26F1-00: IGN RELAY OFF	Inhibit engine cranking
B26F2-00: IGN RELAY ON	Inhibit engine cranking
B27D4-00: BCM - S/L SENSOR CIRCUIT	Inhibit steering unlock
B27D5-00: S/L SENSOR TEST OUTPUT	Inhibit steering unlock
B27D6-00: S/L CAN COMM CIRCUIT	Inhibit steering lock
B27D7-00: S/L PWR RELAY	Inhibit steering lock
B27D8-00: S/L VEHICLE SPEED MALFUNCTION	Inhibit steering lock
B27D9-00: S/L IGN MALFUNCTION	Inhibit steering lock/unlock
B27DA-00: IPDM CAN COMM CIRCUIT	Inhibit steering lock
B27DC-00: S/L POWER SUPPLY	Inhibit steering lock
B27DD-00: BCM - S/L ID DISCORD	Inhibit steering lock
B27DE-00: S/L MECHANICAL MALFUNCTION	Inhibit steering lock
B27DF-00: S/L HIGH LEVEL MALFUNCTION	Inhibit steering lock/unlock
B27E0-00: S/L LOW LEVEL MALFUNCTION	Inhibit steering lock
B27E1-00: S/L SAFETY CIRCUIT	Inhibit steering lock
B27E5-00: S/L IGN OFF POSITION	Inhibit steering lock
B27E6-00: S/L ANTI-SCAN MODE	Inhibit steering lock
B27E8-00: S/L UNDETERMINED LOCK POS	Inhibit steering lock
U0415: VEHICLE SPEED	Inhibit steering lock

### 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.

## BCM

### < ECU DIAGNOSIS INFORMATION >

#### FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

BCM detects the rain sensor serial link error and the rain sensor malfunction.

BCM controls the following fail-safe when rain sensor has a malfunction.

- Front wiper switch AUTO and sensing rain drop: The condition just before the activation of fail-safe is maintained until the front wiper switch is turned OFF.
- Front wiper switch AUTO and not sensing rain drop: Front wiper is LO operation until the front wiper switch is turned off.

#### 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:0000000010688608

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

Priority	DTC
1	B2562-00: LOW VOLTAGE
2	<ul style="list-style-type: none"><li>• U1000-00: CAN COMM</li><li>• U1010-00: CONTROL UNIT (CAN)</li></ul>
3	<ul style="list-style-type: none"><li>• B2190-00: CHAIN OF BCM-IMM ANT</li><li>• B2191-00: ID DISCORD, BCM-IMMANT</li><li>• B2192-00: ID DISCORD BCM-ECM</li><li>• B2193-00: CHAIN OF BCM-ECM</li><li>• B2195-00: ANTI-SCANNING</li><li>• B2196-00: DONGLE NG</li><li>• B2198-00: NATS ANTENNA AMP</li></ul>

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## < ECU DIAGNOSIS INFORMATION >

Priority	DTC
4	<ul style="list-style-type: none"> <li>• B2556-00: PUSH-BTN IGN SW</li> <li>• B2557-00: VEHICLE SPEED</li> <li>• B2602-00: SHIFT POSITION</li> <li>• B2604-00: PNP/CLUTCH SW</li> <li>• B2608-00: STARTER RELAY</li> <li>• B260F-00: ENG STATE SIG LOST</li> <li>• B261A-00: PUSH-BTN IGN SW</li> <li>• B261F-00: ASCD CNCL/CLTCH SW</li> <li>• B2620-00: NEUTRAL SW</li> <li>• B26E8-00: CLUTCH SW</li> <li>• B26F1-00: IGN RELAY OFF</li> <li>• B26F2-00: IGN RELAY ON</li> <li>• B26FC-00: KEY REGISTRATION</li> <li>• B27D1-00: START CUT RELAY OFF</li> <li>• B27D2-00: START CUT RELAY ON</li> <li>• B27D3-00: S/L THERMAL PROTECTION</li> <li>• B27D4-00: BCM - S/L SENSOR CIRCUIT</li> <li>• B27D5-00: S/L SENSOR TEST OUTPUT</li> <li>• B27D6-00: S/L CAN COMM CIRCUIT</li> <li>• B27D7-00: S/L PWR RELAY</li> <li>• B27D8-00: S/L VEHICLE SPEED MALFUNCTION</li> <li>• B27D9-00: S/L IGN MALFUNCTION</li> <li>• B27DA-00: IPDM CAN COMM CIRCUIT</li> <li>• B27DB-00: S/L IGN OFF</li> <li>• B27DC-00: S/L POWER SUPPLY</li> <li>• B27DD-00: BCM - S/L ID DISCORD</li> <li>• B27DE-00: S/L MECHANICAL MALFUNCTION</li> <li>• B27DF-00: S/L HIGH LEVEL MALFUNCTION</li> <li>• B27E0-00: S/L LOW LEVEL MALFUNCTION</li> <li>• B27E1-00: S/L SAFETY CIRCUIT</li> <li>• B27E3-00: S/L KEY NOT REGISTRATION</li> <li>• B27E4-00: S/L REGISTRATION STATUS</li> <li>• B27E5-00: S/L IGN OFF POSITION</li> <li>• B27E6-00: S/L ANTI-SCAN MODE</li> <li>• B27E7-00: S/L UNDETERMINED UNLOCK POS</li> <li>• B27E8-00: S/L UNDETERMINED LOCK POS</li> <li>• U0415-00: VEHICLE SPEED</li> </ul>
5	<ul style="list-style-type: none"> <li>• B2621-00: INSIDE ANTENNA</li> <li>• B2622-00: INSIDE ANTENNA</li> </ul>

## DTC Index

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### NOTE:

The details of time display are as follows.

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

×:Applicable

CONSULT display	Fail-safe	Freeze Frame Data	Key system malfunction	Security indicator lamp ON	Reference
No DTC is detected. further testing may be required.	—	—	—	—	—
U1000-00: CAN COMM	—	—	—	—	<a href="#">BCS-110</a>
U1010-00: CONTROL UNIT (CAN)	—	—	—	—	<a href="#">BCS-111</a>
U0415-00: VEHICLE SPEED	×	—	×	—	<a href="#">BCS-112</a>
B2190-00: CHAIN OF BCM-IMM ANT	×	—	—	×	<ul style="list-style-type: none"> <li>• <a href="#">SEC-110</a>*1</li> <li>• <a href="#">SEC-270</a>*2</li> </ul>
B2191-00: ID DISCORD, BCM-IM- MANT	×	—	—	×	<ul style="list-style-type: none"> <li>• <a href="#">SEC-113</a>*1</li> <li>• <a href="#">SEC-273</a>*2</li> </ul>

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## < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data	Key system malfunction	Security indicator lamp ON	Reference
B2192-00: ID DISCORD BCM-ECM	×	—	—	×	• <a href="#">SEC-114</a> * <sup>1</sup> • <a href="#">SEC-274</a> * <sup>2</sup>
B2193-00: CHAIN OF BCM-ECM	×	—	—	×	• <a href="#">SEC-116</a> * <sup>1</sup> • <a href="#">SEC-275</a> * <sup>2</sup>
B2195-00: ANTI-SCANNING	×	—	—	×	• <a href="#">SEC-118</a> * <sup>1</sup> • <a href="#">SEC-277</a> * <sup>2</sup>
B2196-00: DONGLE NG	×	—	—	×	• <a href="#">SEC-119</a> * <sup>1</sup> • <a href="#">SEC-278</a> * <sup>2</sup>
B2198-00: NATS ANTENNA AMP	×	—	—	×	• <a href="#">SEC-121</a> * <sup>1</sup> • <a href="#">SEC-280</a> * <sup>2</sup>
B2556-00: PUSH-BTN IGN SW	—	×	×	—	<a href="#">SEC-123</a>
B2557-00: VEHICLE SPEED	×	×	×	—	<a href="#">SEC-125</a>
B2562-00: LOW VOLTAGE	—	×	—	—	<a href="#">BCS-113</a>
B2602-00: SHIFT POSITION	×	×	×	—	<a href="#">SEC-127</a>
B2604-00: PNP/CLUTCH SW	×	×	×	—	<a href="#">SEC-130</a>
B2608-00: STARTER RELAY	×	×	×	—	• <a href="#">SEC-133</a> * <sup>1</sup> • <a href="#">SEC-283</a> * <sup>2</sup>
B260F-00: ENG STATE SIG LOST	×	×	×	—	• <a href="#">SEC-134</a> * <sup>1</sup> • <a href="#">SEC-284</a> * <sup>2</sup>
B261A-00: PUSH-BTN IGN SW	—	×	×	—	<a href="#">PCS-101</a>
B261F-00: ASCD CNCL/CLTCH SW	—	×	×	—	<a href="#">SEC-136</a>
B2620-00: NEUTRAL SW	×	×	×	—	<a href="#">SEC-139</a>
B2621-00: INSIDE ANTENNA	—	×	×	—	• <a href="#">DLK-149</a> * <sup>3</sup> • <a href="#">DLK-460</a> * <sup>4</sup>
B2622-00: INSIDE ANTENNA	—	×	×	—	• <a href="#">DLK-152</a> * <sup>3</sup> • <a href="#">DLK-463</a> * <sup>4</sup>
B26E8-00: CLUTCH SW	—	×	×	—	<a href="#">SEC-143</a>
B26F1-00: IGN RELAY OFF	×	×	×	—	<a href="#">PCS-103</a>
B26F2-00: IGN RELAY ON	×	×	×	—	<a href="#">PCS-105</a>
B26FC-00: KEY REGISTRATION	—	×	×	—	<a href="#">SEC-142</a>
B27D1-00: START CUT RELAY OFF	—	×	×	—	• <a href="#">SEC-146</a> * <sup>1</sup> • <a href="#">SEC-286</a> * <sup>2</sup>
B27D2-00: START CUT RELAY ON	—	×	×	—	• <a href="#">SEC-149</a> * <sup>1</sup> • <a href="#">SEC-289</a> * <sup>2</sup>
B27D3-00: S/L THERMAL PROTECTION	—	×	×	—	<a href="#">SEC-152</a>
B27D4-00: BCM - S/L SENSOR CIRCUIT	×	×	×	—	<a href="#">SEC-153</a>
B27D5-00: S/L SENSOR TEST OUTPUT	×	×	×	—	<a href="#">SEC-155</a>
B27D6-00: S/L CAN COMM CIRCUIT	×	×	×	—	<a href="#">SEC-158</a>
B27D7-00: S/L PWR RELAY	×	×	×	—	<a href="#">SEC-160</a>
B27D8-00: S/L VEHICLE SPEED MALFUNCTION	×	×	×	—	<a href="#">SEC-162</a>
B27D9-00: S/L IGN MALFUNCTION	×	×	×	—	<a href="#">SEC-164</a>

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# BCM

## < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data	Key system malfunction	Security indicator lamp ON	Reference
B27DA-00: IPDM CAN COMM CIRCUIT	×	×	×	—	• <a href="#">SEC-165</a> *1 • <a href="#">SEC-292</a> *2
B27DB-00: S/L IGN OFF	—	×	×	—	<a href="#">SEC-167</a>
B27DC-00: S/L POWER SUPPLY	×	×	×	—	<a href="#">SEC-169</a>
B27DD-00: BCM - S/L ID DISCORD	×	×	×	—	<a href="#">SEC-171</a>
B27DE-00: S/L MECHANICAL MALFUNCTION	×	×	×	—	<a href="#">SEC-173</a>
B27DF-00: S/L HIGH LEVEL MALFUNCTION	×	×	×	—	<a href="#">SEC-174</a>
B27E0-00: S/L LOW LEVEL MALFUNCTION	×	×	×	—	<a href="#">SEC-175</a>
B27E1-00: S/L SAFETY CIRCUIT	×	×	×	—	<a href="#">SEC-176</a>
B27E3-00: S/L KEY NOT REGISTRATION	—	×	×	—	<a href="#">SEC-178</a>
B27E4-00: S/L REGISTRATION STATUS	—	×	×	—	<a href="#">SEC-179</a>
B27E5-00: S/L IGN OFF POSITION	×	×	×	—	<a href="#">SEC-180</a>
B27E6-00: S/L ANTI-SCAN MODE	×	×	×	—	<a href="#">SEC-182</a>
B27E7-00: S/L UNDETERMINED UNLOCK POS	—	×	×	—	<a href="#">SEC-184</a>
B27E8-00: S/L UNDETERMINED LOCK POS	×	×	×	—	<a href="#">SEC-186</a>

\*1: With Intelligent Key system

\*2: Without Intelligent Key system

\*3: With super lock

\*4: Without super lock

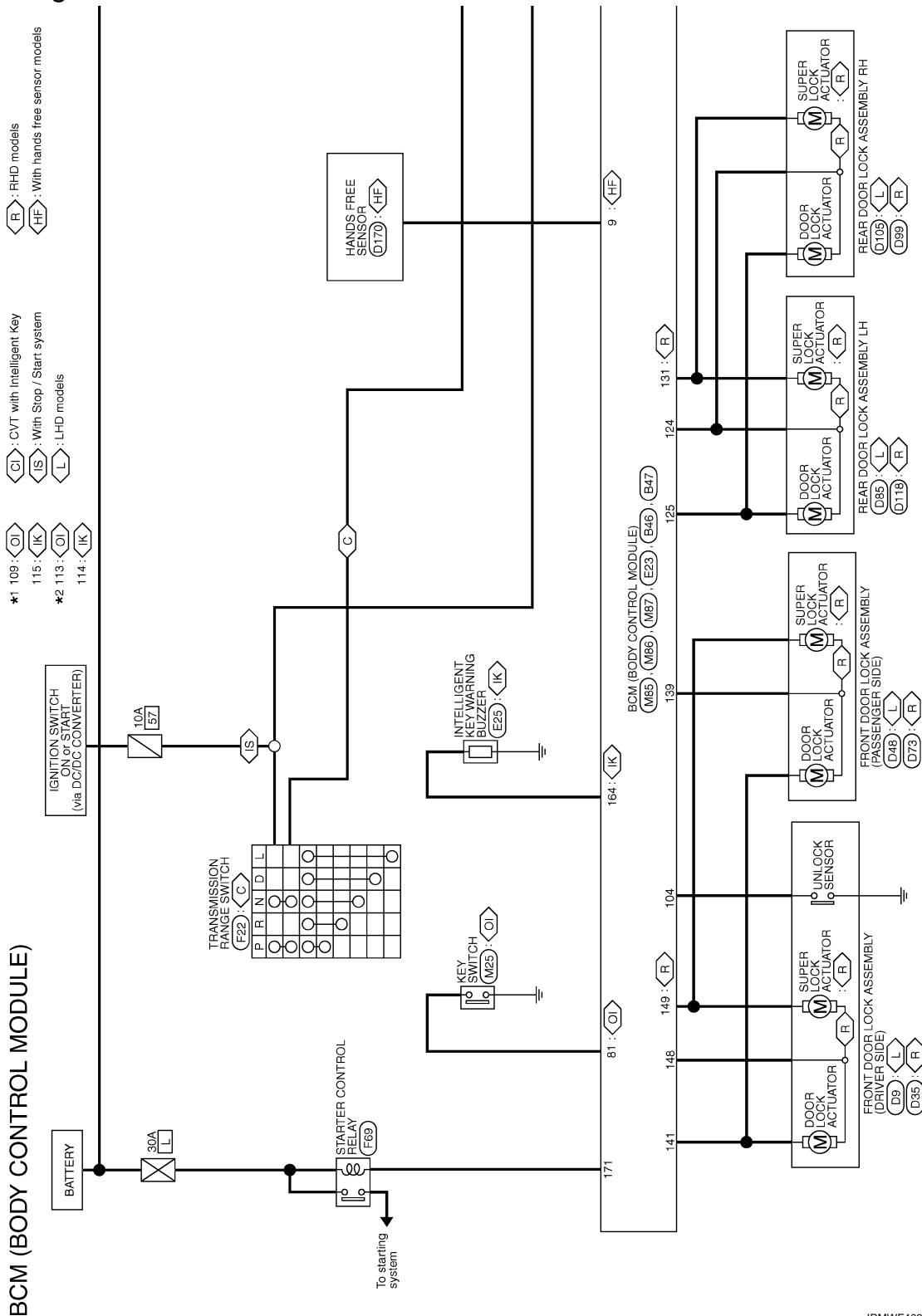


WIRING DIAGRAM

BCM

Wiring Diagram

INFOID:000000010688610



BCS

< WIRING DIAGRAM >

- IK

: With Intelligent Key
- SC

: With siren control
- M

: With M / T
- DU

: With dongle unit
- ON

: Without NAVI
- MT

: MR engine models with M / T
- FW

: With rear wiper
- LR

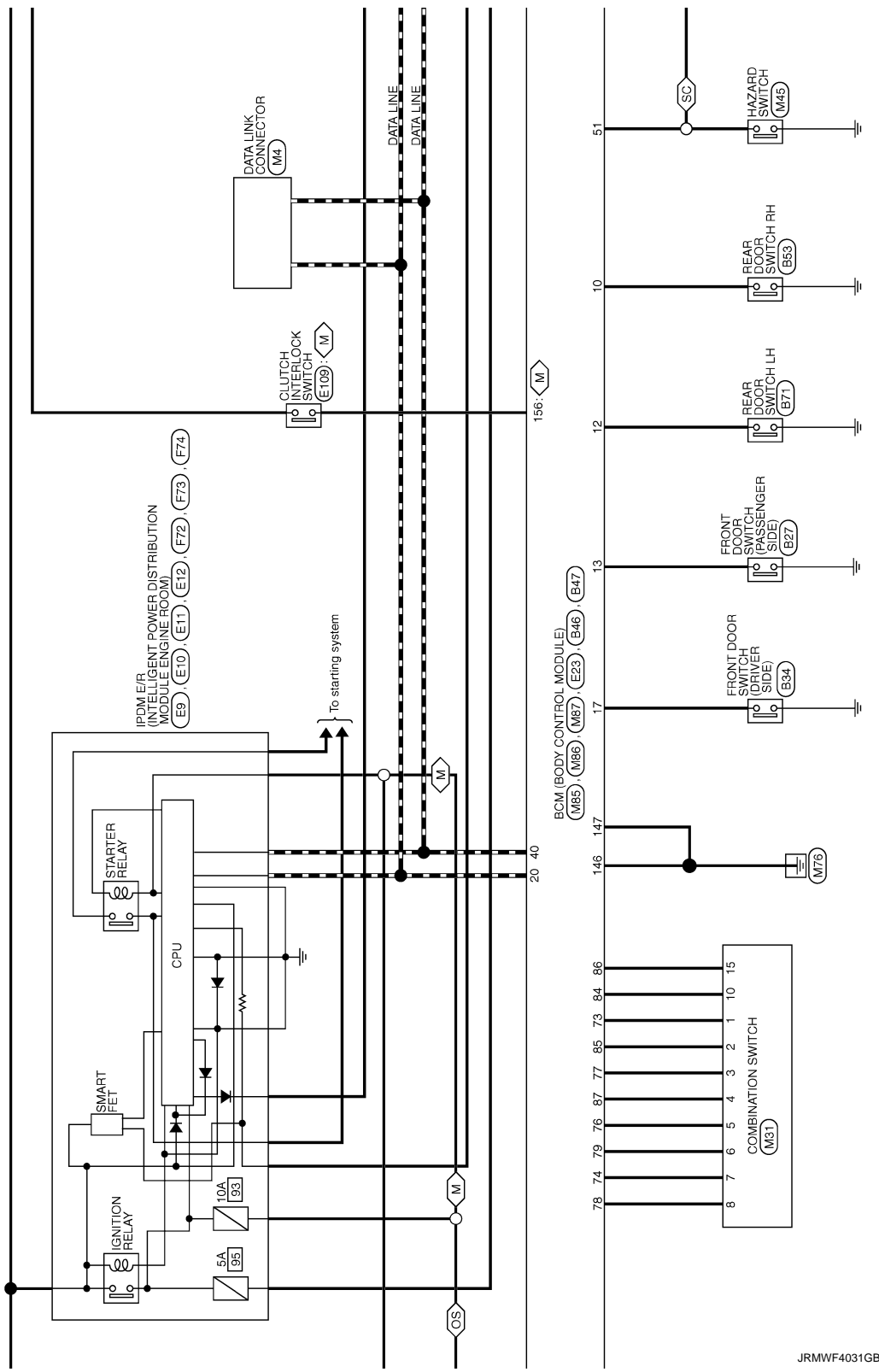
: With light & rain sensor
- OS

: Without Intelligent Key
- SH

: With headlamp washer switch
- C

: With CVT
- RT

: R9R engine models with M / T

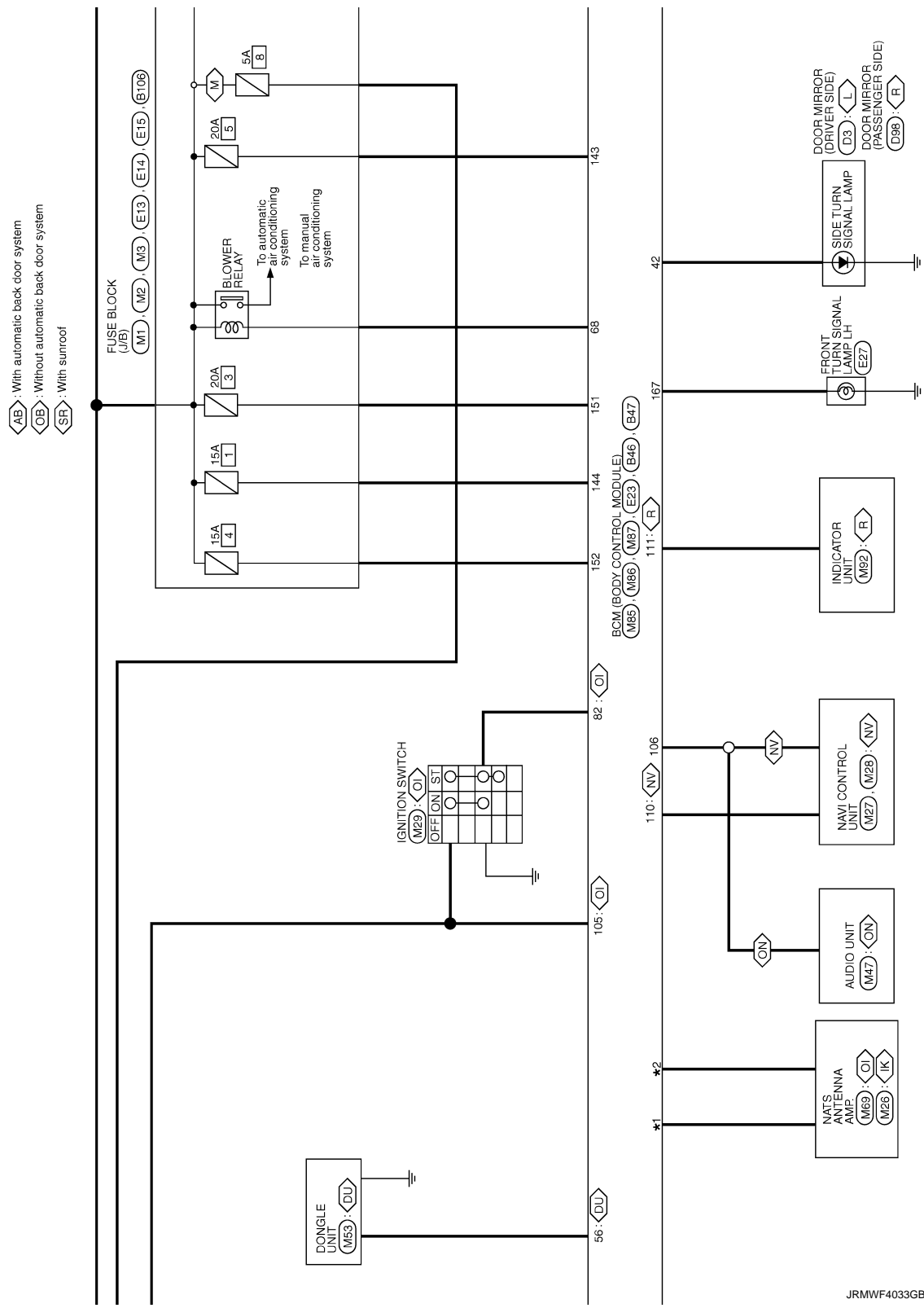


JRMWF4031GB



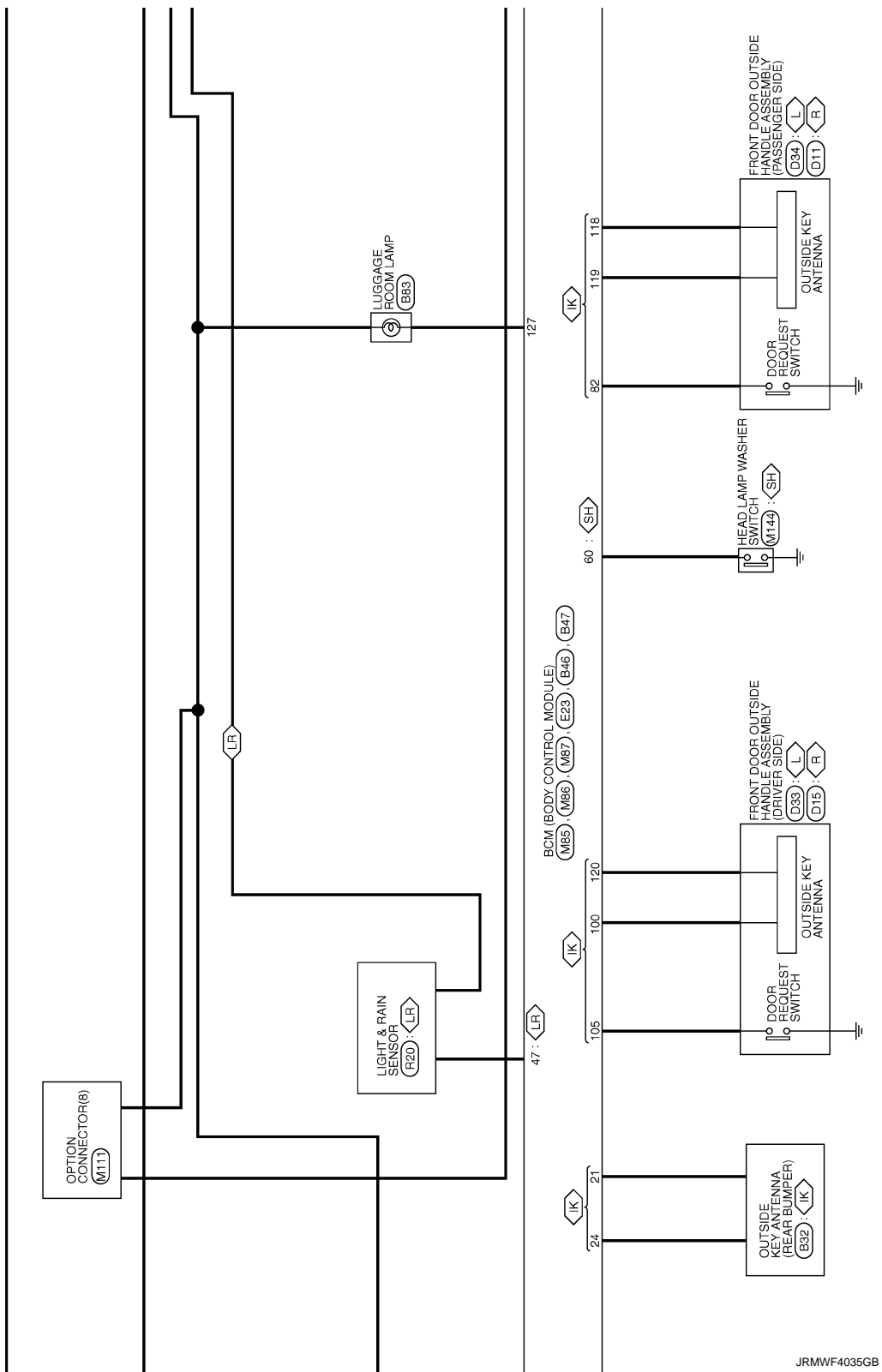
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< WIRING DIAGRAM >

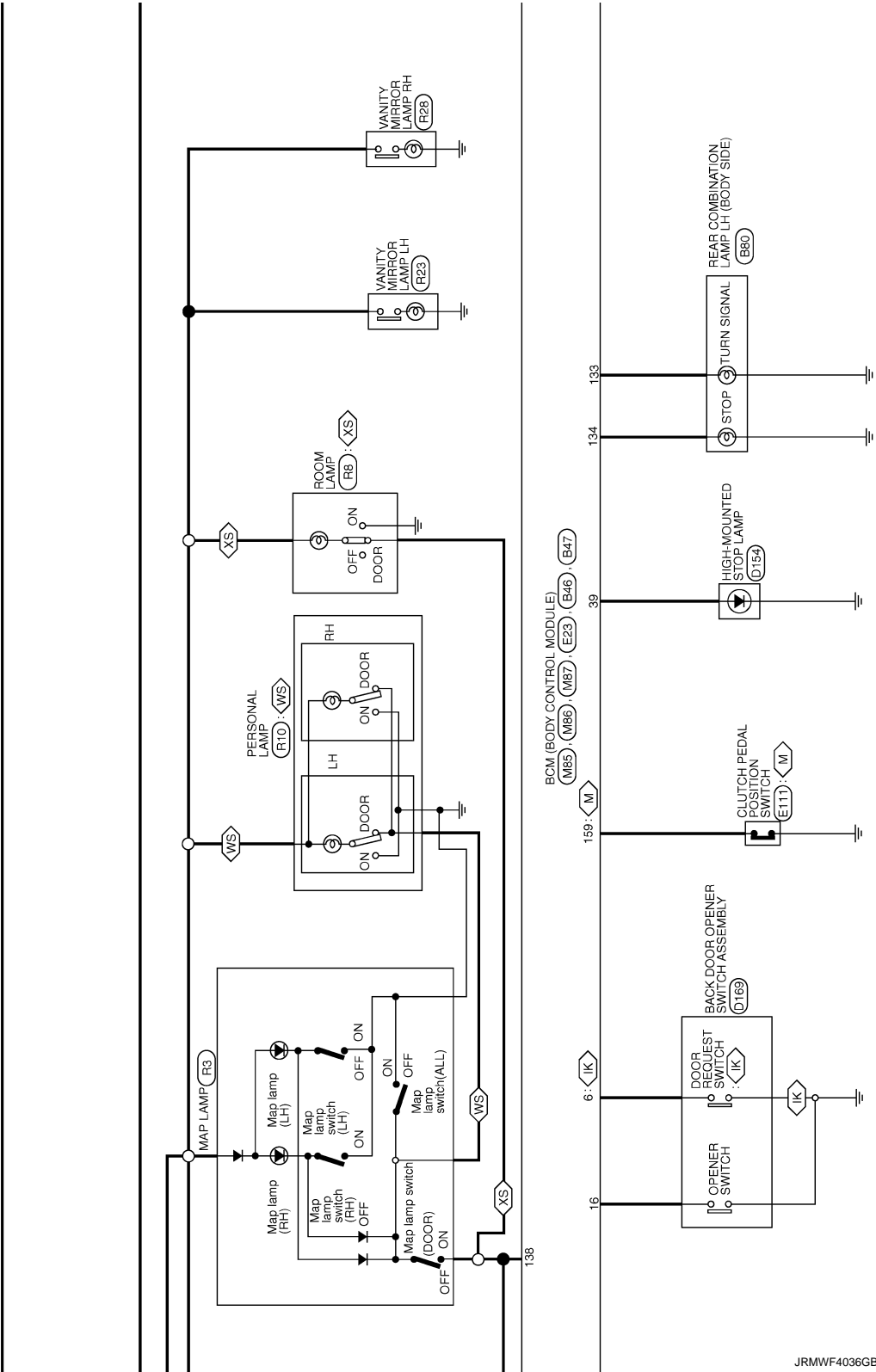


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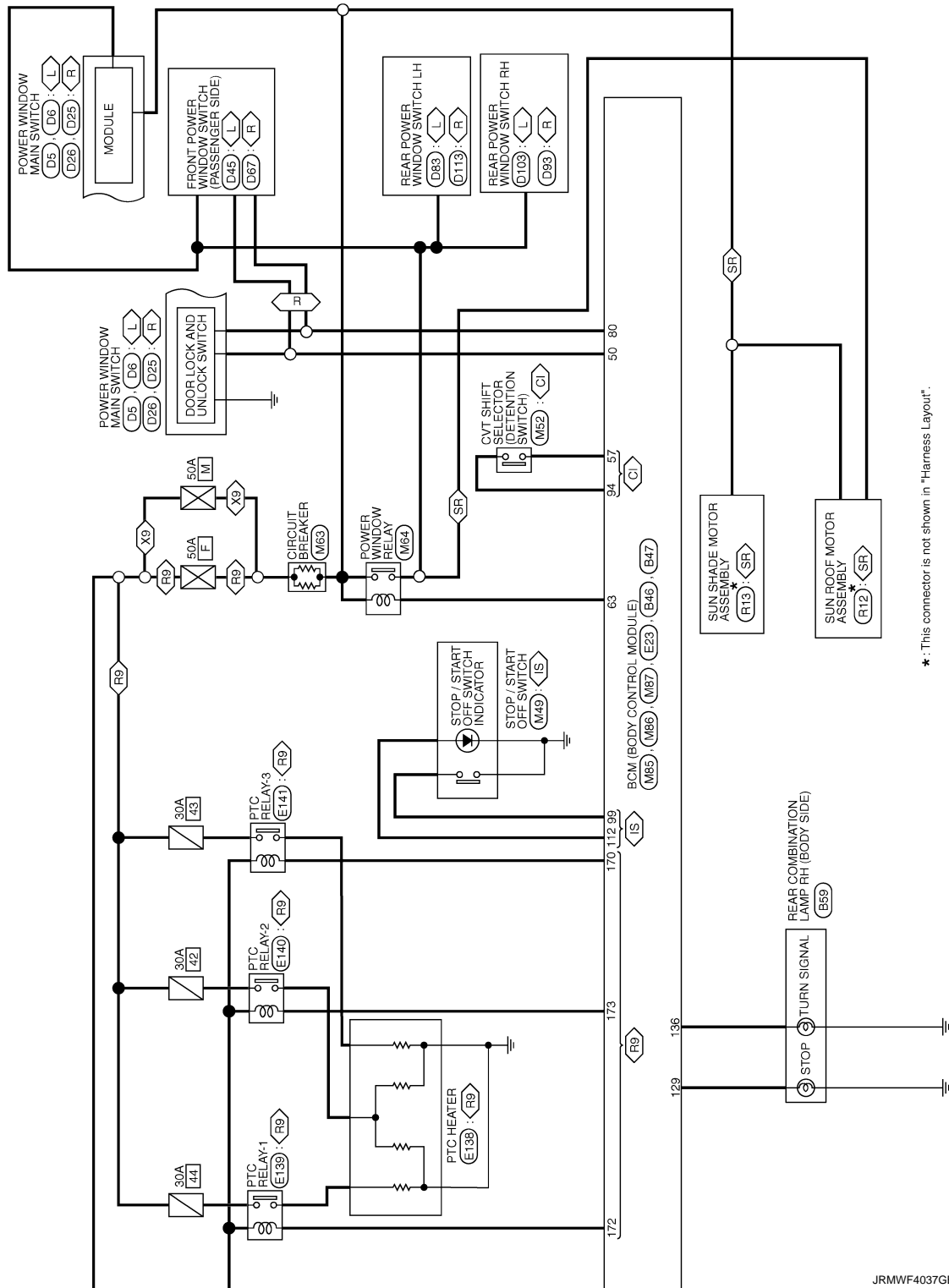




JRMWF4035GB



JRMWF4036GB





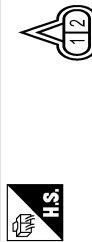
BCM (BODY CONTROL MODULE)

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH



Terminal No.	3
Color	GB
Wire	SB
Signal Name [Specification]	- [For LHD models] - [For RHD models]

Connector No.	B32
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY



Terminal No.	1
Color	LG
Wire	V
Signal Name [Specification]	-

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH



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

Connector No.	B35
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RK02FGY



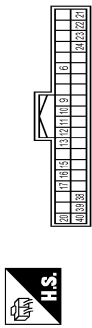
Terminal No.	1
Color	L
Wire	Y
Signal Name [Specification]	-

Connector No.	B46
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FGY-CS



Terminal No.	121
Color	LAV
Wire	W
Signal Name [Specification]	BACK DOOR OPENER CONT
Terminal No.	122
Color	Y
Wire	W
Signal Name [Specification]	REAR FOG LAMP OUTPUT
Terminal No.	123
Color	LAV
Wire	W
Signal Name [Specification]	REAR WIPES OUTPUT
Terminal No.	124
Color	W
Wire	W
Signal Name [Specification]	REAR DOOR UNLOCK OUTPUT
Terminal No.	125
Color	L
Wire	R
Signal Name [Specification]	REAR DOOR LOCK OUTPUT
Terminal No.	127
Color	L
Wire	R
Signal Name [Specification]	LUGGAGE ROOM LAMP CONT
Terminal No.	129
Color	LAV
Wire	W
Signal Name [Specification]	STOP LAMP LH OUT
Terminal No.	131
Color	R
Wire	R
Signal Name [Specification]	REAR DOOR SUPER LOCK OUTPUT
Terminal No.	133
Color	GR
Wire	W
Signal Name [Specification]	TURN SIG LH (REAR)
Terminal No.	134
Color	LAV
Wire	W
Signal Name [Specification]	STOP LAMP RH OUT
Terminal No.	136
Color	P
Wire	W
Signal Name [Specification]	TURN SIG RH (REAR)

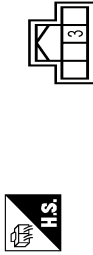
Connector No.	B47
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH04FG-NH



Terminal No.	6
Color	R
Wire	W
Signal Name [Specification]	BACK DOOR OPENER REQUEST SW
Terminal No.	9
Color	G
Wire	W
Signal Name [Specification]	HANDS FREE SENSOR
Terminal No.	10
Color	W
Wire	W
Signal Name [Specification]	REAR RH DOOR SW
Terminal No.	11
Color	LG
Wire	W
Signal Name [Specification]	BACK DOOR SW
Terminal No.	12
Color	R
Wire	W
Signal Name [Specification]	REAR LH DOOR SW
Terminal No.	13
Color	SB
Wire	W
Signal Name [Specification]	PASSENGER DOOR SW
Terminal No.	15
Color	LAV
Wire	W
Signal Name [Specification]	REAR WIPER AUTO STOP
Terminal No.	16
Color	Y
Wire	W
Signal Name [Specification]	BACK DOOR OPENER SW

Terminal No.	17
Color	SB
Wire	W
Signal Name [Specification]	DRIVER DOOR SW
Terminal No.	20
Color	L
Wire	W
Signal Name [Specification]	CAN-H
Terminal No.	21
Color	BR
Wire	W
Signal Name [Specification]	BUMPER ANTENNA (-)
Terminal No.	22
Color	Y
Wire	W
Signal Name [Specification]	REAR ANTENNA (-)
Terminal No.	23
Color	L
Wire	W
Signal Name [Specification]	REAR ANTENNA (+)
Terminal No.	24
Color	G
Wire	W
Signal Name [Specification]	BUMPER ANTENNA (+)
Terminal No.	38
Color	V
Wire	W
Signal Name [Specification]	SIREN
Terminal No.	39
Color	LAV
Wire	W
Signal Name [Specification]	HIGH MOUNTED STOP LAMP
Terminal No.	40
Color	P
Wire	W
Signal Name [Specification]	CAN-L

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	TH04FW-NH



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

Connector No.	B54
Connector Name	OPTION CONNECTOR (13)
Connector Type	NS02MBRC-CS



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

BCM (BODY CONTROL MODULE)

Connector No.	B55
Connector Name	OPTION CONNECTOR (14)
Connector Type	NS02FBR-CS



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

Connector No.	B59
Connector Name	REAR COMBINATION LAMP (RH BODY SIDE)
Connector Type	NS04MNV-CS



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

Connector No.	B71
Connector Name	REAR DOOR SWITCH L/H
Connector Type	TH04FM-AH



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

Connector No.	B80
Connector Name	REAR COMBINATION LAMP (LH BODY SIDE)
Connector Type	NS04MNV-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/R	-
2	LA/Y	-
3	GR	-
4	B	-

Connector No.	B83
Connector Name	LUGGAGE ROOM LAMP
Connector Type	NS02FM-CS



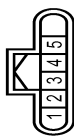
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	V	-

Connector No.	B106
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1G	LA/R	-
2G	P	-
3G	G	-
4G	P	-
5G	G	-

Connector No.	B127
Connector Name	SIREN CONTROL UNIT
Connector Type	RH06FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	BLINKER LINE
2	P	+B
3	V	COM. LINE
4	Y	SERIAL LINE
5	B	GND

Connector No.	B155
Connector Name	REAR FOG LAMP
Connector Type	RS02FGY



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

## BCM (BODY CONTROL MODULE)

Connector No.	B156
Connector Name	REAR FOG LAMP
Connector Type	RS02FGY



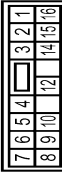
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	Y	-

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH6MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-
3	LAP	-
4	LAVR	-
5	LAVI	-
7	GR	-
8	G	-
10	B	-
11	LAISE	-
12	LAGR	-
14	LAVB	-
15	B	-
16	Y	-

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	LAGR	FRONT POWER WINDOW MOTOR/UP/DOWN SIGNAL
3	-	-
4	R	ENCODER SIGNAL 2
5	W	ENCODER SIGNAL
6	P	REAR POWER WINDOW MOTOR/UP/DOWN SIGNAL
7	LG	REAR POWER WINDOW MOTOR/UP/DOWN SIGNAL
8	LAVI	REAR POWER WINDOW MOTOR/UP/DOWN SIGNAL
9	LAVI	REAR POWER WINDOW MOTOR/UP/DOWN SIGNAL
10	SB	IGN ON POWER SUPPLY
12	Y	ENCODER GROUND
14	G	ENCODER POWER SUPPLY
15	BG	-
16	LAISE	FRONT POWER WINDOW MOTOR/PASSENGER SIDE/UP SIGNAL

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	LAVI	REAR POWER WINDOW MOTOR/UP/DOWN SIGNAL
18	LAVR	BATTERY POWER SUPPLY
19	LAVR	FRONT POWER WINDOW MOTOR/DRIVER SIDE/DOWN SIGNAL

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	ED0FCY-RS



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

Connector No.	D11
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE)
Connector Type	RH04FB



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

Connector No.	D15
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY (POWER SIDE)
Connector Type	RH04FB



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

Connector No.	D23
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH6MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	LAVI	-
4	LAVR	-
5	LAVI	-
7	L	-
8	G	-
11	LAGR	-
12	LAVI	-
14	LAVB	-
15	B	-
16	Y	-

BCM (BODY CONTROL MODULE)

Connector No.	D25
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	LA/GR	REAR POWER WINDOW MOTOR/ASSEMBLY DOWN SIGNAL
3	L	ENCODER SIGNAL 2
4	P	ENCODER SIGNAL 2
5	W	ENCODER SIGNAL 1
6	LAIL	REAR POWER WINDOW MOTOR/UP/DOWN SIGNAL
7	LAG	REAR POWER WINDOW MOTOR/UP/DOWN SIGNAL
8	Y	REAR POWER WINDOW MOTOR/LIFT/DOWN SIGNAL
9	G	REAR POWER WINDOW MOTOR/LIFT/DOWN SIGNAL
10	SB	IGN ON POWER SUPPLY
12	LG	ENCODER GROUND
13	GR	-
14	G	ENCODER POWER SUPPLY
15	BG	-
16	LAV	FRONT POWER WINDOW MOTOR/ PASSENGER SIDE UP SIGNAL

Connector No.	D26
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	LAV	FRONT POWER WINDOW MOTOR/DRIVER SIDE UP SIGNAL
18	LAV	BATTERY POWER SUPPLY
19	LAV	FRONT POWER WINDOW MOTOR/DRIVER SIDE DOWN SIGNAL

Connector No.	D33
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
Connector Type	RH4AFB



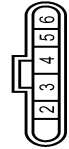
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	SB	-
3	W	-
4	B	-

Connector No.	D34
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE)
Connector Type	RH4AFB



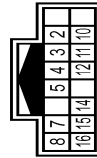
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	SB	-
3	P	-
4	B	-

Connector No.	D35
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	FEA04FB-FH42-LC



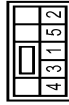
Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	R	-
4	V	-
5	G	-
6	LG	-

Connector No.	D43
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH16MW-NH



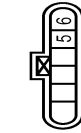
Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	LAV	-
4	LAV	-
5	LAV	-
7	L	-
8	V	-
10	B	-
11	LAG	-
12	LAV	-
14	LAV	-
15	B	-
16	Y	-

Connector No.	D45
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/GR	LOCK
2	L	UNLOCK
3	LAV	GND
4	LAIL	-
6	LAV	-

Connector No.	D46
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	ED06GY-RS



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

BCM (BODY CONTROL MODULE)

Connector No.	D67
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FW-CS



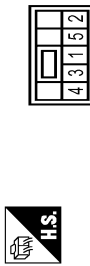
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	BR	-
3	B	-
4	LAV	-
5	LAV	-
6	LAV	-
7	LAV	-
8	LAV	-
9	LAV	-
10	LAV	-
11	LAV	-
12	LAV	-

Connector No.	D73
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2-LC



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

Connector No.	D93
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS08FW-CS



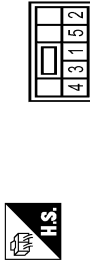
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/GR	-
2	LA/BR	-
3	LA/Y	-
4	G	-
5	R	-

Connector No.	D85
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	E06F-GY-RS



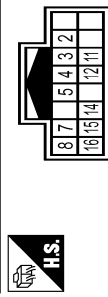
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/G	-
2	LAV	-

Connector No.	D93
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/GR	-
2	LA/BR	-
3	LA/Y	-
4	G	-
5	R	-

Connector No.	D98
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH16MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	LAV	-
3	LAV	-
4	LA/G	-
5	LAV	-
6	L	-
7	V	-
8	V	-
9	V	-
10	V	-
11	LA/GR	-
12	LA/BR	-
13	LA/Y	-
14	LA/B	-
15	B	-
16	Y	-

Connector No.	D99
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	FEA04FB-FHA2-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
4	SB	-
5	W	-
6	P	-

Connector No.	D103
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/GR	-
2	LA/BR	-
3	LA/Y	-
4	G	-
5	R	-

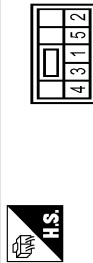
BCM (BODY CONTROL MODULE)

Connector No.	D105
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	E06FGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
5	LA/L	-
6	LA/W	-

Connector No.	D113
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/R	-
2	LA/B	-
3	LA/Y	-
4	G	-
5	R	-

Connector No.	D118
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	FEA04FB-FHA2-LC



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

Connector No.	D154
Connector Name	HIGH-MOUNTED STOP LAMP
Connector Type	TK02MW



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

Connector No.	D168
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



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

Connector No.	D169
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH04MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	GR	-
4	BR	- [Without PBD]
	W	- [With PBD]

Connector No.	D170
Connector Name	HANDS FREE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	Power Management Port
2	W	Output Sensor
3	W	GND
4	W	Cancel Signal

Connector No.	D172
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
4	W	-
5	W	-
6	W	-
7	W	-
8	B	-

< WIRING DIAGRAM >

BCM (BODY CONTROL MODULE)

Connector No.	D178
Connector Name	REAR WIPER MOTOR
Connector Type	CEA03FW



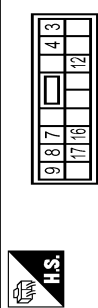
Terminal No.	Wire	Signal Name [Specification]
1	W	-
2	W	-
3	B	-

Connector No.	E9
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	L02FB-MC



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

Connector No.	E10
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	NS16FGY-CS



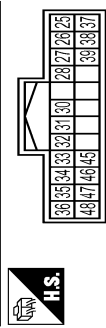
Terminal No.	Wire	Signal Name [Specification]
3	P	-
4	Y	-
7	L	-
8	BG	-
9	L	-
12	B	-
16	G	-
17	W	-

Connector No.	E11
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	Renault 243405408R



Terminal No.	Wire	Signal Name [Specification]
19	V	-
20	R	-
21	LG	-
22	Y	-
23	B	-
24	W	-

Connector No.	E12
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH24FGY-NH



Terminal No.	Wire	Signal Name [Specification]
25	LG	-
26	W	-
27	SB	-
28	P	-
30	L	-
31	G	-
32	B	-
33	BG	-
34	LG	-
35	V	-
36	Y	-
37	B	-
38	GR	-
39	BR	-
45	L	-
46	P	-
47	W	-
48	R	-

Connector No.	E13
Connector Name	FUSE BLOCK (J/B)
Connector Type	L01FW-MC



Terminal No.	Wire	Signal Name [Specification]
1D	G	-

Connector No.	E14
Connector Name	FUSE BLOCK (J/B)
Connector Type	M01FW-LC



Terminal No.	Wire	Signal Name [Specification]
1E	L	-

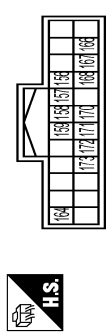
Connector No.	E15
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Wire	Signal Name [Specification]
10F	L	-
1F	W	-
5F	V	-
6F	Y	-

BCM (BODY CONTROL MODULE)

Connector No.	E23
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
156	V	CLUTCH INTERLOCK SW
157	LG	STOP LAMP SW 2
158	W	STOP LAMP SW 1
159	R	ASCD CLUTCH SWITCH
164	Y	INTELLIGENT KEY WARNING BUZZER
166	P	STEERING LOCK UNIT POWER SUPPLY
167	BR	TURN SIG LH (FRONT)
168	GR	TURN SIG RH (FRONT)
170	L	PTC RELAY-3 CONTROL
171	G	STARTER RELAY CONT
172	V	PTC RELAY-1 CONTROL
173	BG	PTC RELAY-2 CONTROL

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03FBR



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

Connector No.	E27
Connector Name	FRONT TURN SIGNAL LAMP LH
Connector Type	RS02FGY



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

Connector No.	E46
Connector Name	FRONT TURN SIGNAL LAMP RH
Connector Type	RS02FGY



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

Connector No.	E109
Connector Name	CLUTCH INTERLOCK SWITCH
Connector Type	M02FBR-LC



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

Connector No.	E111
Connector Name	CLUTCH PEDAL POSITION SWITCH
Connector Type	M02FBR-LC



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

Connector No.	E112
Connector Name	BRAKE PEDAL POSITION SWITCH
Connector Type	M02FBR-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	GR	- [With ME20 or QR25 Engine]
2	R	- [With E30M Engine]

Connector No.	E115
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LC



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



BCM (BODY CONTROL MODULE)

Connector No.	E120
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LC



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

Connector No.	E121
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LC



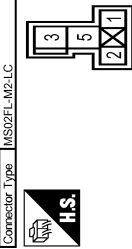
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	LG	-
3	Y	-
4	W	-

Connector No.	E138
Connector Name	PTC HEATER
Connector Type	ALA06FB-R-RH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	GR	-
3	G	-
4	GR	-
5	Y	-

Connector No.	E139
Connector Name	PTC RELAY-1
Connector Type	MS02FL-M2-LC



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

Connector No.	E140
Connector Name	PTC RELAY-2
Connector Type	MS02FL-M2-LC



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

Connector No.	E141
Connector Name	PTC RELAY-3
Connector Type	MS02FL-M2-LC



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

Connector No.	F22
Connector Name	TRANSMISSION RANGE SWITCH
Connector Type	YD06FB-HS4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	GR	-
3	W	-
4	V	-
5	G	-
6	BR	-
7	Y	-
8	GR	-

Connector No.	F69
Connector Name	STARTER CONTROL RELAY
Connector Type	MS02FL-M2-LC



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

BCM (BODY CONTROL MODULE)

Connector No.	F72
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	NS16FW-CS



71	70	69	68	67	66	65
79	78	76	75	73	72	

Terminal No.	Color Of Wire	Signal Name [Specification]
65	P	-
66	L	- [With R3M Engine]
67	R	- [With MR20 or QR25 Engine]
68	V	-
69	PG	- [With CVT]
70	GR	- [With MT]
71	SB	-
72	GR	-
73	R	- [With R3M Engine]
74	Y	- [With MR20 or QR25 Engine]
75	BR	- [With MR20 or QR25 Engine]
76	L	- [With R3M Engine]
77	P	-
78	L	- [With QR25 engine]
79	G	- [With R3M Engine]

Connector No.	F73
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	YLA06FGY



81	83
84	85

Terminal No.	Color Of Wire	Signal Name [Specification]
81	G	-
83	L	-
84	GR	-
85	P	-

86	LG	-
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Connector No.	F74
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH24FB-NH



98	97	96	95	94	93	92	91	90	89	88	87
110		107	106	105		103		102	101	100	99

Terminal No.	Color Of Wire	Signal Name [Specification]
87	L	-
88	P	-
89	W	-
90	R	-
91	GR	-
92	GR	-
93	G	- [With R3M Engine]
94	P	- [With MR20 or QR25 Engine]
95	LG	-
96	W	-
97	P	-
98	Y	-
99	BG	-
100	LG	-
101	V	-
102	Y	-
105	W	-
106	BR	-
107	V	-
110	SB	-

Connector No.	M1
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS06FW-M2



3A	2A	1A
8A	7A	6A

Terminal No.	Color Of Wire	Signal Name [Specification]
1A	L	-
2A	LG	-
3A	Y	-
4A	LG	-
5A	R	-
6A	RG	-
7A	BR	-
8A	SB	-

Connector No.	M2
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS16BRC-S



7B	6B	5B	4B	3B	2B	1B
10B	9B	8B	7B	6B	5B	4B

Terminal No.	Color Of Wire	Signal Name [Specification]
10B	GR	- [With MR20 engine or R3M engine]
10B	LA/GR	- [With QR25 Engine]
12B	BR	-
14B	W	-
15B	W	-
16B	GR	-
18B	G	-
20B	R	-
22B	V	-
24B	L	-
26B	L	-
28B	L	-

Connector No.	M3
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS16FW-CS



7D	6D	5D	4D	3D	2D	1D
10D	9D	8D	7D	6D	5D	4D

Terminal No.	Color Of Wire	Signal Name [Specification]
10C	LG	-
13C	LA/G	-
14C	R	-
15C	L	-
16C	LA/W	-
1C	R	-
2C	G	-
3C	Y	-
4C	LG	-
5C	GR	-
6C	LA/R	-
7C	Y	-
8C	BR	- [With ISS]
8C	LA/BR	- [Without ISS]
9C	L	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



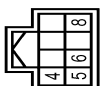
11	10	9	8	7	6	5	4	3	2	1
14	13	12	11	10	9	8	7	6	5	4

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

BCM (BODY CONTROL MODULE)

11	SB	-
14	P	-
15	BR	-
16	W	-

Connector No.	M16
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH03FW-NH



Terminal No.	Wire	Signal Name [Specification]
4	B	-
5	W	-
6	B	-
8	Y	-

Connector No.	M17
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY



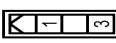
Terminal No.	Wire	Signal Name [Specification]
1	GR	-
2	BG	-

Connector No.	M25
Connector Name	KEY SWITCH
Connector Type	TH02FW



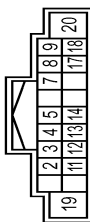
Terminal No.	Wire	Signal Name [Specification]
1	L	-
2	B	-

Connector No.	M26
Connector Name	NATS ANTENNA AMP.
Connector Type	NH03FW



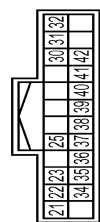
Terminal No.	Wire	Signal Name [Specification]
1	W	-
3	Y	-

Connector No.	M27
Connector Name	NAVI CONTROL UNIT
Connector Type	NH08FW-CS2



Terminal No.	Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH - [With 6 Speaker]
3	Y	SOUND SIGNAL FRONT SPEAKER LH - [With 4 Speaker]
3	P	SOUND SIGNAL FRONT LH - [With 6 Speaker]
3	R	SOUND SIGNAL FRONT LH - [With 4 Speaker]
4	GR	SOUND SIGNAL REAR LH +
5	BR	SOUND SIGNAL REAR LH -
7	W	AUTO ACC INPUT SIGNAL
8	L	CAN-H
9	V	ILLUMINATION SIGNAL
11	G	SOUND SIGNAL FRONT RH - [With 6 Speaker]
12	GR	SOUND SIGNAL FRONT RH - [With 4 Speaker]
12	V	SOUND SIGNAL FRONT RH - [With 6 Speaker]
13	LG	SOUND SIGNAL REAR RH +
14	Y	SOUND SIGNAL REAR RH -
17	R	CAN-L
18	G	VEHICLE SPEED SIGNAL (8 PULSE)
19	L	BATTERY POWER SUPPLY
20	B	GROUND

Connector No.	M28
Connector Name	NAVI CONTROL UNIT
Connector Type	TH04FW-NH



Terminal No.	Wire	Signal Name [Specification]
21	G	AUX AUDIO SIGNAL RH
22	Y	AUX AUDIO SIGNAL GROUND
23	L	AUX AUDIO SIGNAL LH
25	BR	REVERSE SIGNAL
30	BG	DIMMER SIGNAL
31	SB	AV COMMUNICATION SIGNAL (H)
32	LG	AV COMMUNICATION SIGNAL (L)
34	W	MICROPHONE SIGNAL
35	B	MICROPHONE VCC
36	SHIELD	MICROPHONE GROUND
37	SHIELD	SHIELD
38	SB	AV COMMUNICATION SIGNAL (H)
39	LG	AV COMMUNICATION SIGNAL (L)
40	LG	IGNITION SIGNAL
41	G	CAMERA IMAGE SIGNAL
42	SHIELD	CAMERA IMAGE SIGNAL GROUND

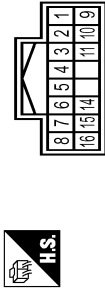
Connector No.	M29
Connector Name	IGNITION SWITCH
Connector Type	TH04FW-NH



Terminal No.	Wire	Signal Name [Specification]
1	Y	-
3	B	-
4	LAVR	-

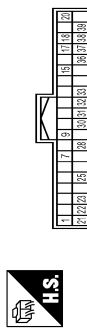
## BCM (BODY CONTROL MODULE)

Connector No.	M31
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	INPUT 5
2	SB	OUTPUT 1
3	GR	INPUT 4
4	BG	OUTPUT 4
5	G	INPUT 3
6	W	INPUT 2
7	Y	-
8	V	-
9	G	RR WASH MOTOR
10	BR	OUTPUT 2
11	Y	FR WASH MOTOR
14	LG	IGN
15	P	OUTPUT 3
16	GR	GND

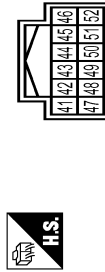
Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH10FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
7	BG	SECURITY SIGNAL
9	GR	ECO MODE SWITCH SIGNAL
15	L	AMBIENT SENSOR SIGNAL
17	BG	METER CONTROL SWITCH GROUND
18	SB	TRIP RESET SWITCH SIGNAL

20	Y	AMBIENT SENSOR GROUND
21	L	STEERING SWITCH GROUND
22	Y	STEERING SWITCH SIGNAL A
23	GR	STEERING SWITCH SIGNAL B
25	V	BRAKE FLUID LEVEL SWITCH SIGNAL
28	Y	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	LG	MANUAL MODE SIGNAL
31	SB	NON-MANUAL MODE SIGNAL
32	BG	MANUAL MODE SHIFT UP SIGNAL
33	BR	MANUAL MODE SHIFT DOWN SIGNAL
36	GR	ILLUMINATION CONTROL SWITCH SIGNAL (C)
37	V	ILLUMINATION CONTROL SWITCH SIGNAL (L)
38	G	VEHICLE SPEED SIGNAL (8-PULSE)
39	W	VEHICLE SPEED SIGNAL (2-PULSE)

Connector No.	M42
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	L	CAN-H
42	P	CAN-L
43	W	ILLUMINATION CONTROL SIGNAL
44	LAV	FUEL LEVEL SENSOR GROUND
45	LAVG	BATTERY POWER SUPPLY
46	LAVR	IGNITION SIGNAL [Without (SS)]
46	V	IGNITION SIGNAL [With (SS)]
47	SB	AV COMMUNICATION SIGNAL (H)
48	LG	AV COMMUNICATION SIGNAL (L)
49	Y	OIL LEVEL SENSOR SIGNAL
50	BG	OIL LEVEL SENSOR GROUND
51	LAVL	FUEL LEVEL SENSOR SIGNAL
52	B	GROUND

Connector No.	M44
Connector Name	INTERIOR ROOM LAMP RELAY
Connector Type	MS02FL-M2-LC



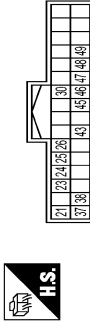
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	P	-
3	LG	-
5	V	-

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TH04FW-NH



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

Connector No.	M47
Connector Name	AUDIO UNIT
Connector Type	TH02FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
21	B	MICROPHONE VCC
23	L	AUX SOUND SIGNAL LH
24	G	AUX SOUND SIGNAL RH
25	Y	AUX SOUND SIGNAL GROUND
26	SHIELD	SHIELD
30	R	ILLUMINATION SIGNAL
37	W	MICROPHONE SIGNAL
38	SHIELD	MICROPHONE GROUND
43	B	EQ1
45	W	AUTO ACC INPUT SIGNAL
46	SB	AV COMMUNICATION SIGNAL (H)
47	LG	AV COMMUNICATION SIGNAL (L)
48	SB	AV COMMUNICATION SIGNAL (H)
49	LG	AV COMMUNICATION SIGNAL (L)

Connector No.	M49
Connector Name	STOP/START OFF SWITCH
Connector Type	TH08FL-NH



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

BCM (BODY CONTROL MODULE)

Connector No.	M52
Connector Name	CVT SHIFT SELECTOR
Connector Type	TH16FW-NH



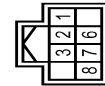
Terminal No.	Color	Wire	Signal Name [Specification]
3	R	-	-
4	B	-	-
7	LG	-	-
8	BR	-	-
9	BG	-	-
10	B	-	-
11	SB	-	-
12	L	-	-
13	G	-	-

Connector No.	M53
Connector Name	DONGLE UNIT
Connector Type	TH04FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	P	-	DATA&SV_SUPPLY
4	B	-	GND

Connector No.	M57
Connector Name	STEERING LOCK UNIT
Connector Type	TH08FB-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	GR	-	STEERING LOCK UNIT GND
2	V	-	STEERING LOCK UNIT PWR
3	L	-	STEERING LOCK UNIT CANH
6	V	-	STEERING LOCK UNIT SENSORLINE
7	GR	-	STEERING LOCK UNIT SAFETYLINE
8	P	-	STEERING LOCK UNIT CAN L

Connector No.	M63
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-PLC



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

Connector No.	M64
Connector Name	POWER WINDOW RELAY
Connector Type	24347_9F900



Terminal No.	Color	Wire	Signal Name [Specification]
1	G	-	-
2	W	-	-
3	L	-	-
5	P	-	-

Connector No.	M69
Connector Name	NATS ANTENNA AMP.
Connector Type	TH04FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	P	-	CLOCK
2	GR	-	GND
3	BR	-	L_PWR
4	LG	-	DATA

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS



Terminal No.	Color	Wire	Signal Name [Specification]
137	W	-	BAT POWER SUPPLY (E/ISE)
138	SB	-	INT ROOM LAMP CONT
139	B	-	PASSENGER DOOR UNLOCK OUTPUT
141	V	-	FRONT DOOR LOCK OUTPUT
143	LAV	-	POWER SUPPLY (FR DOOR LK ACT)
144	BG	-	POWER SUPPLY (TURN SIGNAL)
145	GR	-	POWER SUPPLY (STOP LAMP)
146	B	-	GROUND
147	B	-	GROUND
148	G	-	DRIVER DOOR UNLOCK OUTPUT
149	W	-	FRONT DOOR SUPERLOCK OUTPUT
151	R	-	POWER SUPPLY (REAR DOOR LK ACT)
152	LG	-	POWER SUPPLY (REAR WIPER)

Connector No.	M86
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

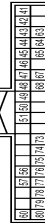


Terminal No.	Color	Wire	Signal Name [Specification]
81	L	-	KEY SWITCH
82	LAR	-	KEY SW (ST) (Without Intelligent key)
82	W	-	PASS DOOR RELO SW (With Intelligent key)
84	BR	-	COMBI SW OUTPUT 2
85	SB	-	COMBI SW OUTPUT 1
86	P	-	COMBI SW OUTPUT 3
87	BG	-	COMBI SW OUTPUT 4

BCM (BODY CONTROL MODULE)

Terminal No.	Wire	Signal Name [Specification]
88	W	PUSH/IGN SW ILL CONT
90	Y	SIL CONDITION
94	G	DETENTION SW
95	V	EXTENDED STORAGE FUSE SW
99	R	STOP/START OFF SW
100	V	DRIVER DOOR ANT +
101	Y	PUSH SW
104	R	DR DOOR UNLK SENS
105	Y	DR DOOR REQ SW
106	W	ACC OUTPUT
107	V	SENSOR CANCEL SW
109	P	NATS ANTENNA AMP
110	BG	DIMMER SIGNAL
111	R	DOOR LK STAT IND OUTPUT
112	SB	STOP/START OFF SW INDICATOR
113	LG	NATS ANTENNA AMP
114	Y	NATS ANTENNA AMP
115	W	NATS ANTENNA AMP
116	BG	ROOM ANT 1 +
117	GR	ROOM ANT 1 +
118	SB	PASSENGER DOOR ANT -
119	P	PASSENGER DOOR ANT +
120	BR	PRIVER DOOR ANT +

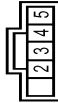
Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH



Terminal No.	Wire	Signal Name [Specification]
41	V	STEERING LOCK UNIT POWER SUPPLY
42	LAG	TURN SIG LH (SIDE)
43	LAY	TURN SIG RH (SIDE)
44	P	INTERIOR ROOM LAMP RELAY CONT
45	R	CANH
46	L	CANL
47	G	LIGHT & RAIN SENSOR
48	L	CANH
49	R	CANL
50	BG	DOOR LOCK SW
51	Y	HAZARD SW

Terminal No.	Wire	Signal Name [Specification]
56	P	DONGLE
57	L	CVT SHIFT SELECT (DETENT SW) PWR
60	R	HEADLAMP WASHER SW
63	G	POWER WINDOW RELAY CONT
64	LAIR	REAR WINDOW DEFROGGER RELAY CONT
65	BR	ACC RELAY CONT
67	Y	IGN RELAY (FB) CONT OUTPUT
68	LAW	BLOWER RELAY CONT
73	LG	COMBI SW INPUT 5
74	Y	COMBI SW OUTPUT 5
75	BG	SECURITY IND LAMP CONT
76	G	COMBI SW INPUT 3
77	GR	COMBI SW INPUT 4
78	V	COMBI SW INPUT 1
79	W	COMBI SW INPUT 2
80	SB	DOOR UNLOCK SW

Connector No.	M92
Connector Name	INDICATOR UNIT
Connector Type	JAB65FB



Terminal No.	Wire	Signal Name [Specification]
2	B	GND
3	W	CUTOFF TELLTALE ON(ACT)
4	GR	CUTOFF TELLTALE OFF(DEACT)
5	R	DOOR LOCK

Connector No.	M111
Connector Name	OPTION CONNECTOR (8)
Connector Type	TH08FW-NH



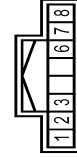
Terminal No.	Wire	Signal Name [Specification]
1	R	-
2	L	-
3	V	-
4	LAG	-
6	BR	-
8	B	-

Connector No.	M144
Connector Name	HEADLAMP WASHER SWITCH
Connector Type	TH08FW-NH



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

Connector No.	R3
Connector Name	MAP LAMP
Connector Type	TH08FW-TV-NH



Terminal No.	Wire	Signal Name [Specification]
1	P	-
2	SB	-
3	SB	-
6	B	-
7	B	-
8	R	-

Connector No.	R8
Connector Name	ROOM LAMP
Connector Type	TB09FW



Terminal No.	Wire	Signal Name [Specification]
1	SB	-
2	P	-
3	B	-

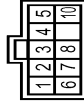
BCM (BODY CONTROL MODULE)

Connector No.	R10
Connector Name	PERSONAL LAMP
Connector Type	TH04FW-NH



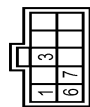
Terminal No.	Wire	Signal Name [Specification]
2	P	-
3	SB	-
4	B	-

Connector No.	R12
Connector Name	SUNROOF MOTOR ASSEMBLY
Connector Type	YEA10F-GY



Terminal No.	Wire	Signal Name [Specification]
1	-	GROUND
2	-	OPEN/CLOSE 2nd SIGNAL
3	-	IGN ON POWER SUPPLY
4	-	PUSH SIGNAL
5	-	OPEN 1st SIGNAL
6	-	BATTERY POWER SUPPLY
7	-	COMMUNICATION LINE
8	-	VEHICLE SPEED SIGNAL
10	-	CLOSE 1st SIGNAL

Connector No.	R13
Connector Name	SUNSHADE MOTOR ASSEMBLY
Connector Type	YEA10F-GY



Terminal No.	Wire	Signal Name [Specification]
1	-	GROUND
3	-	IGN ON POWER SUPPLY
6	-	BATTERY POWER SUPPLY
7	-	COMMUNICATION LINE

Connector No.	R20
Connector Name	LIGHT & RAIN SENSOR
Connector Type	AAE03FB



Terminal No.	Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	R23
Connector Name	VANITY MIRROR LAMP LH
Connector Type	MCA02FW



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

Connector No.	R25
Connector Name	SENSOR CANCEL SWITCH
Connector Type	TK06FM-TV



Terminal No.	Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	B	-
5	Y	-
6	B	-

Connector No.	R28
Connector Name	VANITY MIRROR LAMP RH
Connector Type	MCA02FW



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

## ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

< BASIC INSPECTION >

### BASIC INSPECTION

## ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

### Description

INFOID:0000000010688611

#### BEFORE REPLACEMENT

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

##### NOTE:

If "Before Replace ECU" of "Read / Write Configuration" cannot be used, use the "Manual Configuration" after replacing BCM.

#### AFTER REPLACEMENT

##### CAUTION:

When replacing BCM, always perform "Read / Write Configuration" or "Manual Configuration" with CONSULT. Or not doing so, BCM control function does not operate normally.

- Complete the procedure of "Read / Write Configuration" in order.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- If you set incorrect "Read / Write Configuration" or "Manual Configuration", incidents might occur.

##### NOTE:

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

### Work Procedure

INFOID:0000000010688612

#### 1. SAVING VEHICLE SPECIFICATION (BCM)

##### CONSULT Configuration

Perform "Before Replace ECU" of "Read / Write Configuration" to save or print current vehicle specification. Refer to [BCS-106, "Description"](#).

##### NOTE:

If "Before Replace ECU" of "Read / Write Configuration" cannot be used, use the "Manual Configuration" after replacing BCM.

>> GO TO 2.

#### 2. SAVING VEHICLE SPECIFICATION (CAN GATEWAY)

##### CONSULT Configuration

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

##### NOTE:

If "Before Replace ECU" of "Read / Write Configuration" cannot be used, use the "Manual Configuration" after replacing BCM.

>> GO TO 3.

#### 3. REPLACE BCM

Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

>> GO TO 4.

#### 4. WRITING VEHICLE SPECIFICATION (BCM)

##### CONSULT Configuration

Perform "After Replace ECU" of "Read / Write Configuration" or "Manual Configuration" to write vehicle specification. Refer to [BCS-106, "Work Procedure"](#).

>> GO TO 5.

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



## ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

< BASIC INSPECTION >

Perform BCM initialization. (NATS)

>> GO TO 6.

### 6.INITIALIZE CAN GATEWAY

Perform CAN GATEWAY initialization. Refer to [LAN-113, "Work Procedure"](#).

>> WORK END

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# CONFIGURATION (BCM)

< BASIC INSPECTION >

## CONFIGURATION (BCM)

### Description

INFOID:0000000010688613

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 / Write Configuration	Before Replace ECU	<ul style="list-style-type: none"><li>• Reads the vehicle configuration of current BCM.</li><li>• Saves the read vehicle configuration.</li></ul>
	After Replace ECU	Writes the vehicle configuration with saved data.
Manual Configuration		Writes the vehicle configuration with manual selection.

#### NOTE:

Manual setting item: Items which need selection by vehicle specifications

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

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

#### CAUTION:

**When replacing BCM, always perform “Re/programming, Configuration” with CONSULT. Or not doing so, BCM control function does not operate normally.**

- Complete the procedure of “Read / Write Configuration” in order.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- Never perform “Read / Write Configuration” except for new BCM.
- If you set incorrect “Read / Write Configuration”, incidents might occur.

### Work Procedure

INFOID:0000000010688614

#### 1. WRITING MODE SELECTION

CONSULT Configuration

Select “Re/programming, Configuration” of BCM.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

#### 2. PERFORM “AFTER REPLACE ECU” OF “READ / WRITE CONFIGURATION”

CONSULT Configuration

Perform “After Replace ECU” of “Read / Write Configuration”.

>> WORK END

#### 3. PERFORM “MANUAL CONFIGURATION”

CONSULT Configuration

1. Select “Manual Configuration”.
2. Identify the correct model and configuration list. Refer to [BCS-107, "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 “Next”. Refer to [BCS-107, "Configuration list"](#) for written items and setting value.

4. Touch “Next”.
5. Touch “OK”.

#### CAUTION:

**Make sure to select “OK” even if the indicated configuration of brand new BCM is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model cannot be memorized.**

6. Check that the configuration has been successfully written and touch “End”.

# CONFIGURATION (BCM)

## < BASIC INSPECTION >

>> GO TO 4.

### 4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> WORK END

### Configuration list

INFOID:0000000010688615

#### CAUTION:

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

#### WITH INTELLIGENT KEY SYSTEM

SETTING ITEM		NOTE
Items	Setting value	
SUPER LOCK	WITH ⇔ WITHOUT	—
H/L WASHER	WITHOUT ⇔ MODE1	<ul style="list-style-type: none"> <li>WITHOUT: Without headlamp washer</li> <li>MODE1: With headlamp washer</li> </ul>
HLW CYL SW INP NMB OF TIM	MODE1 ⇔ MODE2	<ul style="list-style-type: none"> <li>MODE1: Except for Europe (LHD) models with headlamp washer</li> <li>MODE2: For Europe (LHD) models with headlamp washer</li> </ul>
THEFT ALM AREA	WITHOUT ⇔ MODE4	<ul style="list-style-type: none"> <li>WITHOUT: Except for Europe (RHD) models</li> <li>MODE4: For Europe (RHD) models</li> </ul>
HANDLE	LHD ⇔ RHD	—
ECM TYPE	MODE1 ⇔ MODE2	<ul style="list-style-type: none"> <li>MODE1: For MR engine or QR engine models</li> <li>MODE2: Except for MR engine or QR engine models</li> </ul>
DONGLE	WITH ⇔ WITHOUT	<ul style="list-style-type: none"> <li>WITH: For Europe (RHD) models</li> <li>WITHOUT: Except for Europe (RHD) models</li> </ul>
TPMS	WITH ⇔ WITHOUT	—
HBA SYSTEM	WITH ⇔ WITHOUT	<ul style="list-style-type: none"> <li>WITH: With high beam assist system</li> <li>WITHOUT: Without high beam assist system</li> </ul>
Key Fob Type	LCK/UNLCK/PBD	—
ALT TYPE	MODE1 ⇔ MODE4	<ul style="list-style-type: none"> <li>MODE1: For MR engine or QR engine models</li> <li>MODE4: Except for MR engine or QR engine models</li> </ul>
TRANSMISSION	MT with ABS ⇔ AT with ABS	<ul style="list-style-type: none"> <li>MT with ABS: M/T models</li> <li>AT with ABS: Except M/T models</li> </ul>

⇔: Items which confirm vehicle specifications

#### WITHOUT INTELLIGENT KEY SYSTEM

SETTING ITEM		NOTE
Items	Setting value	
AUTO LIGHT	WITHOUT ⇔ MODE5	<ul style="list-style-type: none"> <li>WITHOUT: Without auto light</li> <li>MODE5: With auto light</li> </ul>
SUPER LOCK	WITH ⇔ WITHOUT	—
H/L WASHER	WITHOUT ⇔ MODE1	<ul style="list-style-type: none"> <li>WITHOUT: Without headlamp washer</li> <li>MODE1: With headlamp washer</li> </ul>
HLW CYL SW INP NMB OF TIM	MODE1 ⇔ MODE2	<ul style="list-style-type: none"> <li>MODE1: Except for Europe (LHD) models with headlamp washer</li> <li>MODE2: For Europe (LHD) models with headlamp washer</li> </ul>

## CONFIGURATION (BCM)

### < BASIC INSPECTION >

SETTING ITEM		NOTE
Items	Setting value	
RAIN SENSOR CONFIG	WITH ⇔ WITHOUT	<ul style="list-style-type: none"> <li>• WITH: With light &amp; rain sensor</li> <li>• WITHOUT: Without light &amp; rain sensor</li> </ul>
THEFT ALM AREA	WITHOUT ⇔ MODE4	<ul style="list-style-type: none"> <li>• WITHOUT: Except for Europe (RHD) models</li> <li>• MODE4: For Europe (RHD) models</li> </ul>
HANDLE	LHD ⇔ RHD	—
ECM TYPE	MODE1 ⇔ MODE2	<ul style="list-style-type: none"> <li>• MODE1: For MR engine or QR engine models</li> <li>• MODE2: Except for MR engine or QR engine models</li> </ul>
DONGLE	WITH ⇔ WITHOUT	<ul style="list-style-type: none"> <li>• WITH: For Europe (RHD) models</li> <li>• WITHOUT: Except for Europe (RHD) models</li> </ul>
TPMS	WITH ⇔ WITHOUT	—
HBA SYSTEM	WITH ⇔ WITHOUT	<ul style="list-style-type: none"> <li>• WITH: With high beam assist system</li> <li>• WITHOUT: Without high beam assist system</li> </ul>
Key Fob Type	LCK/UNLCK	—
ALT TYPE	MODE1 ⇔ MODE4	<ul style="list-style-type: none"> <li>• MODE1: For MR engine or QR engine models</li> <li>• MODE4: Except for MR engine or QR engine models</li> </ul>
TRANSMISSION	MT with ABS ⇔ AT with ABS	<ul style="list-style-type: none"> <li>• MT with ABS: M/T models</li> <li>• AT with ABS: Except M/T models</li> </ul>

⇔: Items which confirm vehicle specifications

# SHIPPING MODE CANCEL OPERATION

< BASIC INSPECTION >

## SHIPPING MODE CANCEL OPERATION

### Work Procedure

INFOID:0000000010688616

#### 1.SHIPPING MODE CANCEL OPERATION

1. Turn ignition switch OFF.
2. Push in (switch on) the extended storage fuse switch. Refer to [PG-129, "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 information display.

>> WORK END

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**DTC/CIRCUIT DIAGNOSIS****U1000 CAN COMM****DTC Description**

INFOID:0000000010688617

**DESCRIPTION**

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-41, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart"](#).

**DTC DETECTION LOGIC**

DTC	CONSULT display description	DTC Detection Condition
U1000-00	CAN COMM (CAN communication circuit)	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.

**POSSIBLE CAUSE**

CAN communication system

**FAIL-SAFE**

—

**DTC CONFIRMATION PROCEDURE****1.CHECK SELF-DIAG RESULT****④ With CONSULT**

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Perform "Self Diagnostic Result" mode of "BCM" using CONSULT.

**Is malfunctioning part detected?**

- YES >> Refer to [BCS-110, "Diagnosis Procedure"](#).  
 NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).  
 NO-2 >> Confirmation after repair: INSPECTION END

**Diagnosis Procedure**

INFOID:0000000010688618

**1.CHECK CAN COMMUNICATION**

Check CAN communication. Refer to [LAN-17, "Trouble Diagnosis Flow Chart"](#).

**Is DTC "U1000-00" displayed?**

- YES >> Repair or replace the malfunctioning part.  
 NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

## U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

### U1010 CONTROL UNIT (CAN)

#### DTC Description

INFOID:0000000010688619

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition
U1010-00	CONTROL UNIT (CAN) [Control unit (CAN)]	BCM detected internal CAN communication circuit malfunction.

#### POSSIBLE CAUSE

BCM

#### FAIL-SAFE

—

#### DTC CONFIRMATION PROCEDURE

##### 1.CHECK SELF-DIAG RESULT

Ⓐ With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is malfunctioning part detected?

- YES >> Refer to [BCS-111, "Diagnosis Procedure"](#).  
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).  
NO-2 >> Confirmation after repair: INSPECTION END

#### Diagnosis Procedure

INFOID:0000000010688620

##### 1.REPLACE BCM

When DTC "U1010-00" is detected, replace BCM.

>> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

BCS

## U0415 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

### U0415 VEHICLE SPEED

#### DTC Description

INFOID:0000000010688621

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition
U0415-00	VEHICLE SPEED (Vehicle speed)	When the vehicle speed signal received from the ABS actuator and electric unit (control unit) remains abnormal for 2 seconds or more.

#### POSSIBLE CAUSE

- ABS actuator and electric unit (control unit)
- BCM

#### FAIL-SAFE

Inhibit steering lock

#### 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-112, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

#### Diagnosis Procedure

INFOID:0000000010688622

##### 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-84, "DTC Index"](#).

##### Is any DTC detected?

YES >> Repair or replace the malfunctioning part.

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).



## B2562 LOW VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

### B2562 LOW VOLTAGE

#### DTC Description

INFOID:0000000010688623

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition
B2562-00	LOW VOLTAGE (Low voltage)	When the power supply voltage to BCM remains less than 8.8 V for 120 seconds or more

#### POSSIBLE CAUSE

- Harness or connector (power supply circuit)
- BCM

#### FAIL-SAFE

—

#### 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-113, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

#### Diagnosis Procedure

INFOID:0000000010688624

##### 1. CHECK POWER SUPPLY CIRCUIT

Check BCM power supply circuit. Refer to [BCS-114, "Diagnosis Procedure"](#).

##### Is the circuit normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
- NO >> Repair the malfunctioning part.

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BCS

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## POWER SUPPLY AND GROUND CIRCUIT

### Diagnosis Procedure

INFOID:000000010688625

#### 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	14
	7

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.

(+)		(-)	Voltage
BCM			
Connector	Terminal		
M86	95	Ground	9 – 16 V
M85	137		

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		Existed
M85	146		
	147		

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:000000010688626

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

1. Turn ignition switch OFF.
2. Disconnect BCM and combination switch connectors.  
**NOTE:**  
BCM connector disconnects M86 and M87 only.
3. Check continuity between BCM harness connector and combination switch harness connector.

System	BCM		Combination switch		Continuity
	Connector	Terminal	Connector	Terminal	
OUTPUT 1	M86	85	M31	2	Existed
OUTPUT 2		84		10	
OUTPUT 3		86		15	
OUTPUT 4		87		4	
OUTPUT 5	M87	74		7	

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			Continuity
	Connector	Terminal		
OUTPUT 1	M86	85	Ground	Not existed
OUTPUT 2		84		
OUTPUT 3		86		
OUTPUT 4		87		
OUTPUT 5	M87	74		

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> GO TO 3.

#### 3.CHECK COMBINATION SWITCH INTERNAL CIRCUIT

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

**NOTE:**

Check that the combination switch outputs a signal from combination switch input system.

System	(+)		(−)	Voltage (Approx.)
	Combination switch			
	Connector	Terminal		
OUTPUT 1	M31	2	Ground	Refer to <a href="#">BCS-53, "Reference Value"</a> .
OUTPUT 2		10		
OUTPUT 3		15		
OUTPUT 4		4		
OUTPUT 5		7		

## COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

---

Is the measurement value normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Replace combination switch. Refer to [BCS-122, "Removal and Installation"](#).

# COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## COMBINATION SWITCH INPUT CIRCUIT

### Diagnosis Procedure

INFOID:0000000010688627

#### 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	M87	78	M31	8	Existed
INPUT 2		79		6	
INPUT 3		76		5	
INPUT 4		77		3	
INPUT 5		73		1	

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			Continuity
	Connector	Terminal		
INPUT 1	M87	78	Ground	Not existed
INPUT 2		79		
INPUT 3		76		
INPUT 4		77		
INPUT 5		73		

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> GO TO 3.

#### 3.CHECK BCM OUTPUT SIGNAL

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

System	(+)		(-)	Voltage (Approx.)
	BCM			
	Connector	Terminal		
INPUT 1	M87	78	Ground	Refer to <a href="#">BCS-53, "Reference Value"</a> .
INPUT 2		79		
INPUT 3		76		
INPUT 4		77		
INPUT 5		73		

Is the measurement value normal?

Yes >> GO TO 4.

No >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

#### 4.CHECK BCM INPUT SIGNAL

## COMBINATION SWITCH INPUT CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

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

System	(+)		(-)	Voltage (Approx.)
	BCM			
	Connector	Terminal		
INPUT 1	M87	78	Ground	Refer to <a href="#">BCS-53, "Reference Value"</a> .
INPUT 2		79		
INPUT 3		76		
INPUT 4		77		
INPUT 5		73		

#### Is the measurement value normal?

- Yes    >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
- No     >> Replace combination switch. Refer to [BCS-122, "Removal and Installation"](#).

# COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### COMBINATION SWITCH SYSTEM SYMPTOMS

#### Symptom Table

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

Malfunction item: x

Data monitor item																		Malfunction combination
FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	WIP VOLUME	RR WIPER ON	RR WIPER INT	RR WASHER SW	TURN SIGNAL R	TURN SIGNAL L	TAIL LAMP SW	HI BEAM SW	HEAD LAMP SW	LIGHT OFF SW	PASSING SW	AUTO LIGHT SW	FR FOG SW	RR FOG SW	
	x	x		x														A
x				x			x				x							B
			x			x						x		x				C
					x				x						x		x	D
								x		x			x			x		E
											x			x		x	x	F
				x						x		x			x			G
		x					x	x	x									H
x	x		x										x					I
				x	x	x												J
All Items																		K
If only one item is detected or the item is not applicable to the combinations A to K																		L
All Items are normal																		M

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-117, "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-115, "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-121, "Removal and Installation"</a> .
L	Combination switch	Replace combination switch. Refer to <a href="#">BCS-122, "Removal and Installation"</a> .
M	Connector and harness	Check intermittent incident. Refer to <a href="#">GI-44, "Intermittent Incident"</a> .

## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

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### NORMAL OPERATING CONDITION

#### Description

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#### 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 function is limited in shipping mode. Remote keyless entry function is not operated during the shipping mode.
- For shipping mode cancel operation, refer to [BCS-109. "Work Procedure"](#).

#### NOTE:

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



# REMOVAL AND INSTALLATION

## BCM

### Removal and Installation

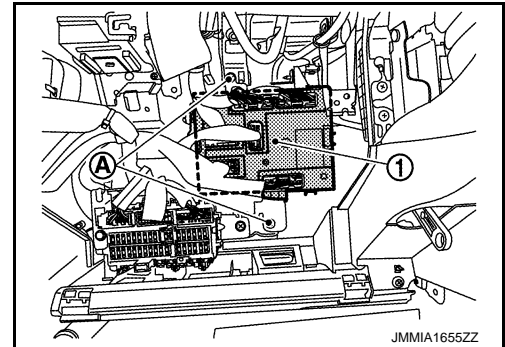
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**NOTE:**

Before replacing BCM, perform “Before Replace ECU” of “Read / Write Configuration” to save or print current vehicle specification. Refer to [BCS-106, "Description"](#).

**REMOVAL (RHD MODELS)**

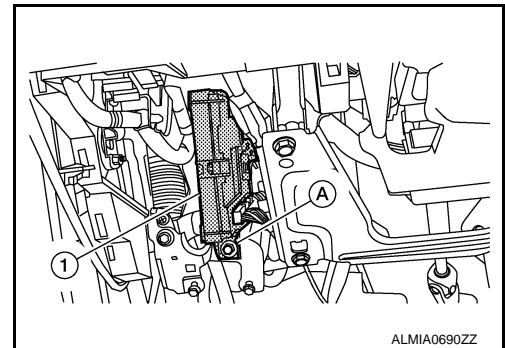
1. Disconnect the battery cable from the negative terminal. Refer to [BCS-3, "Precautions for Removing Battery Terminal"](#).
2. Remove the glove box assembly and glove box housing, Refer to [IP-41, "Removal and Installation"](#).
3. Disconnect the harness connectors from the BCM ①.
4. Remove the BCM mounting nuts ②.



5. Remove the BCM.

**REMOVAL (LHD MODELS)**

1. Disconnect the battery cable from the negative terminal. Refer to [BCS-3, "Precautions for Removing Battery Terminal"](#).
2. Remove the instrument lower panel LH. Refer to [IP-14, "Removal and Installation"](#).
3. Remove the BCM mounting nut ②, then pull out the BCM ①.



4. Disconnect the harness connectors from the BCM and remove.

**INSTALLATION**

Install in the reverse order of removal.

**CAUTION:**

Be sure to perform “After Replace ECU” of “Read / Write Configuration” or “Manual Configuration” when replacing BCM. Refer to [BCS-104, "Work Procedure"](#).

**NOTE:**

- Be sure to perform the system initialization (NATS) when replacing BCM.
- Be sure to perform the system initialization (CAN gateway) when replacing BCM.

# COMBINATION SWITCH

< REMOVAL AND INSTALLATION >

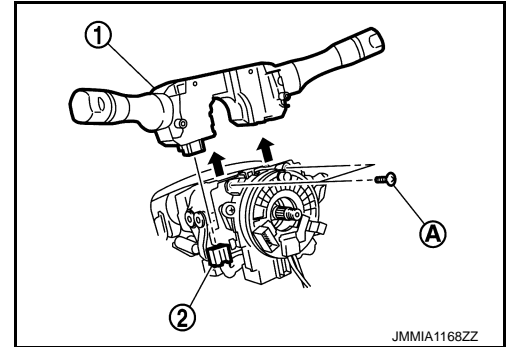
## COMBINATION SWITCH

### Removal and Installation

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#### REMOVAL

1. Remove steering column cover. Refer to [IP-41, "Removal and Installation"](#) (RHD models) or [IP-14, "Removal and Installation"](#) (LHD models).
2. Remove screws **A** and disconnect connector **2** then pull up combination switch **1** to remove it.



#### INSTALLATION

Install in the reverse order of removal.