

# SECTION **BCS**

## BODY CONTROL SYSTEM

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# PRECAUTIONS

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## PRECAUTION

### PRECAUTIONS

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

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

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

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

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

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# COMPONENT PARTS

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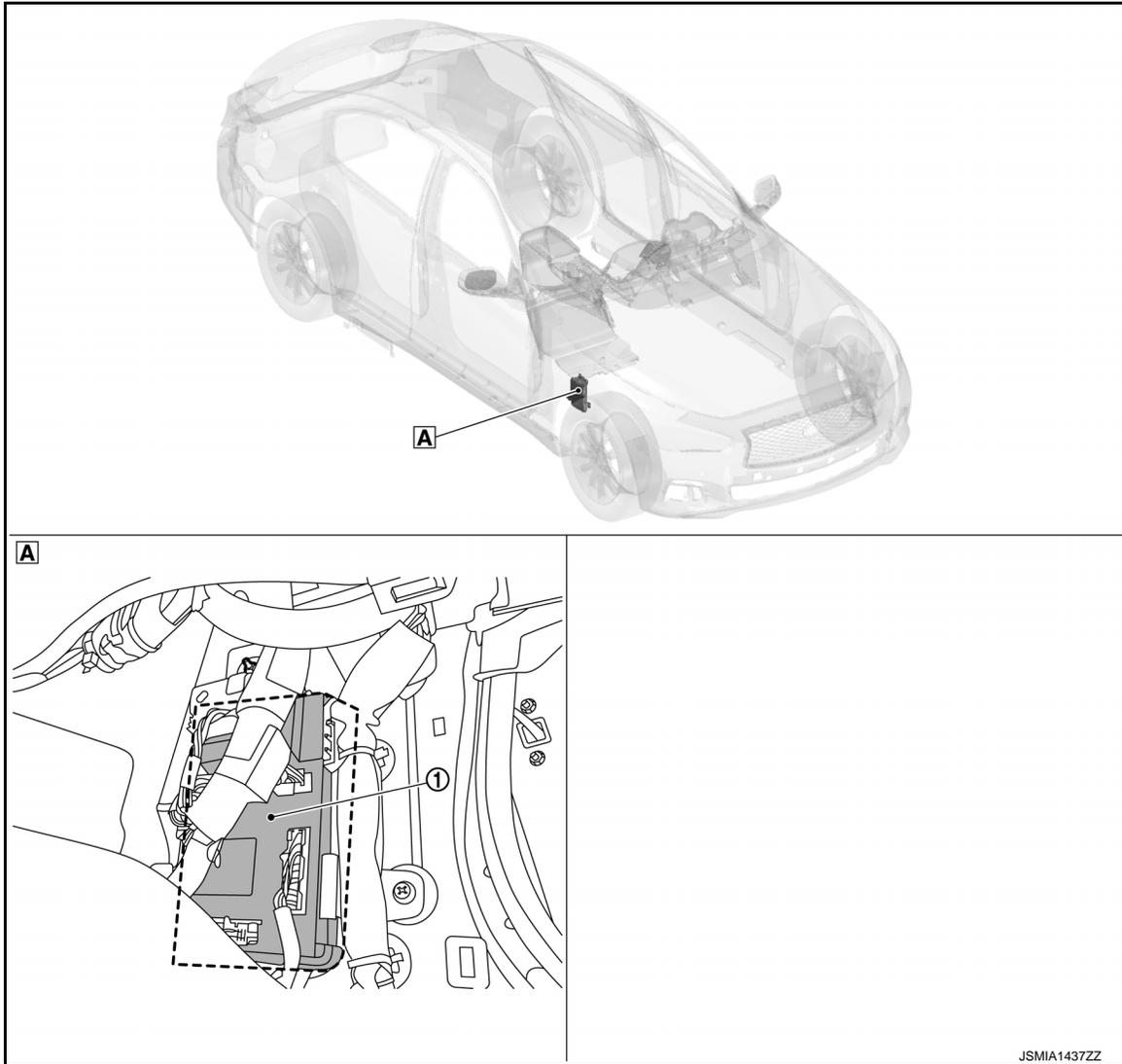
## SYSTEM DESCRIPTION

### COMPONENT PARTS

#### BODY CONTROL SYSTEM

#### BODY CONTROL SYSTEM : Component Parts Location

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① BCM

A Behind of dash side finisher RH

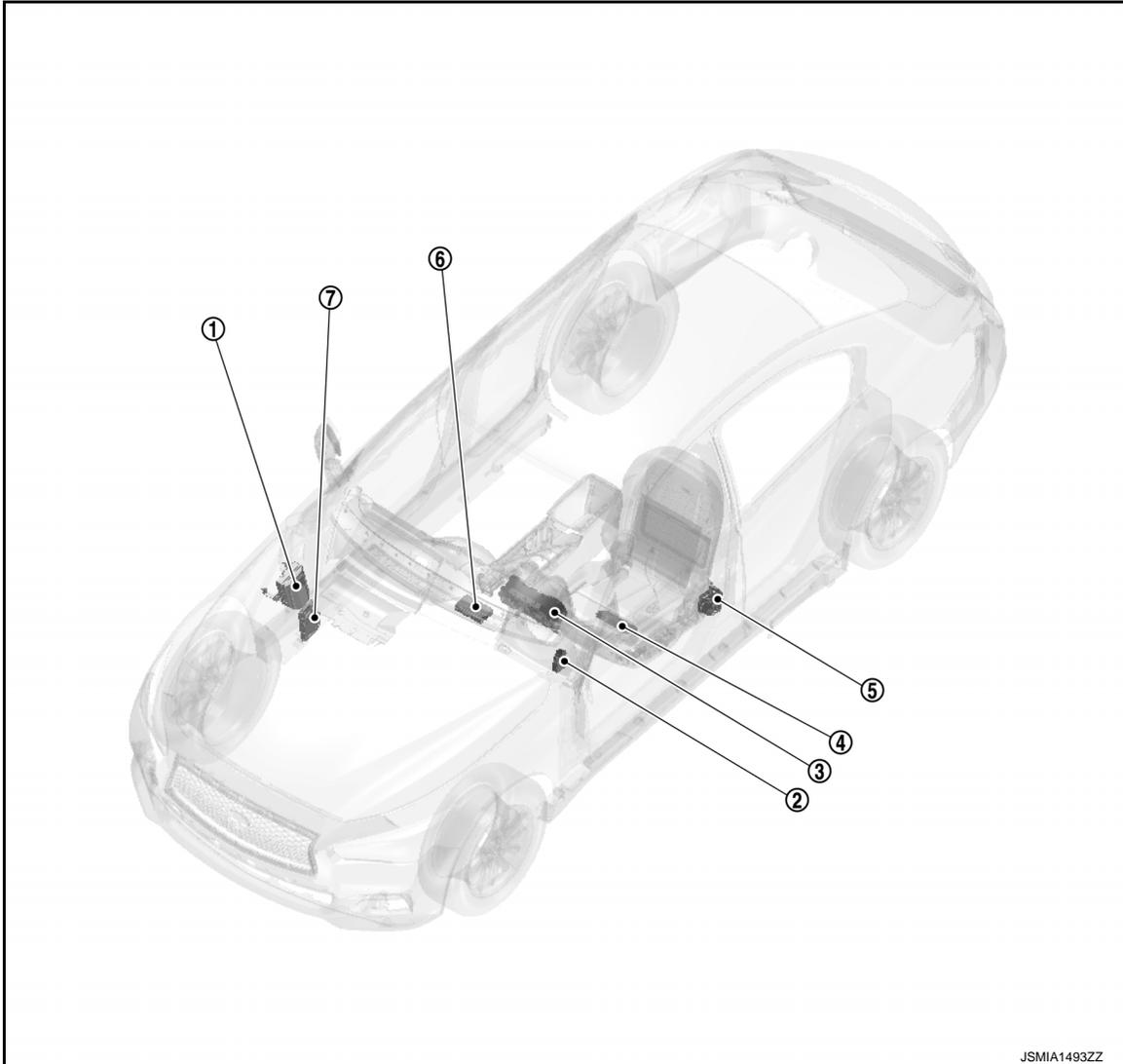
#### POWER CONSUMPTION CONTROL SYSTEM

# COMPONENT PARTS

< SYSTEM DESCRIPTION >

## POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location

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- ① IPDM E/R  
Refer to [PCS-4, "Component Parts Location"](#).
- ④ Driver seat control unit  
Refer to [ADP-6, "Component Parts Location"](#).
- ⑦ BCM  
Refer to [BCS-4, "BODY CONTROL SYSTEM : Component Parts Location"](#).

- ② CAN gateway  
Refer to [LAN-158, "Component Parts Location"](#).
- ⑤ Pre-crash seat belt control unit (driver side)  
Refer to [SBC-5, "PRE-CRASH SEAT BELT SYSTEM : Component Parts Location"](#).

- ③ Combination meter
- ⑥ TCU  
Refer to [AV-531, "Component Parts Location"](#).

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# SYSTEM

< SYSTEM DESCRIPTION >

## SYSTEM

### BODY CONTROL SYSTEM

#### BODY CONTROL SYSTEM : System Description

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#### OUTLINE

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

#### BCM CONTROL FUNCTION LIST

System	Reference
Combination switch reading system	<a href="#">BCS-8, "COMBINATION SWITCH READING SYSTEM : System Description"</a>
Signal buffer system	<a href="#">BCS-12, "SIGNAL BUFFER SYSTEM : System Description"</a>
Power consumption control system	<a href="#">BCS-13, "POWER CONSUMPTION CONTROL SYSTEM : System Description"</a>
Shipping mode control system	<a href="#">BCS-15, "SHIPPING MODE CONTROL SYSTEM : System Description"</a>
Headlamp system	<a href="#">EXL-16, "HEADLAMP SYSTEM : System Description"</a>
Auto light system	<a href="#">EXL-18, "AUTO LIGHT SYSTEM : System Description"</a>
High beam assist system	<a href="#">EXL-21, "HIGH BEAM ASSIST SYSTEM : System Description"</a>
Daytime running light system	<a href="#">EXL-24, "DAYTIME RUNNING LIGHT SYSTEM : System Description"</a>
Turn signal and hazard warning lamp system	<a href="#">EXL-30, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description"</a>
Parking, license plate side marker and tail lamps system	<a href="#">EXL-31, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description"</a>
Front fog lamp system	<a href="#">EXL-38, "FRONT FOG LAMP SYSTEM : System Description"</a>
Exterior lamp battery saver system	<a href="#">EXL-40, "EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description"</a>
Interior room lamp control system	<a href="#">INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"</a>
Interior room lamp battery saver system	<a href="#">INL-11, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description"</a>
Illumination control system	<a href="#">INL-13, "ILLUMINATION CONTROL SYSTEM : System Description"</a>
Front wiper and washer system	<ul style="list-style-type: none"> <li>• <a href="#">WW-8, "FRONT WIPER AND WASHER SYSTEM (WITH RAIN SENSOR) : System Description"</a> (With rain sensor)</li> <li>• <a href="#">WW-13, "FRONT WIPER AND WASHER SYSTEM (WITHOUT RAIN SENSOR) : System Description"</a> (Without rain sensor)</li> </ul>
Rear window defogger system	<a href="#">DEF-6, "System Description"</a>
Warning chime system	<a href="#">WCS-5, "WARNING CHIME SYSTEM : System Description"</a>
Power door lock system	<a href="#">DLK-16, "System Description"</a>
Intelligent Key system	<a href="#">DLK-19, "INTELLIGENT KEY SYSTEM : System Description"</a>
Trunk lid opener system	<a href="#">DLK-46, "System Description"</a>

# SYSTEM

## < SYSTEM DESCRIPTION >

System	Reference
Intelligent Key system/Engine start function	<a href="#">SEC-9, "INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION : System Description"</a>
Infiniti Vehicle Immobilizer System-NATS	<a href="#">SEC-14, "INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS : System Description"</a>
Vehicle security system	<a href="#">SEC-19, "VEHICLE SECURITY SYSTEM : System Description"</a>
Thrift warning alarm	
Panic alarm	
Power window system	<a href="#">PWC-9, "System Description"</a>
TPMS (Tire Pressure Monitoring System)	<a href="#">WT-8, "System Description"</a>

## BODY CONTROL SYSTEM : Fail-safe

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### FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2198: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> <li>Starter motor relay control signal</li> <li>Starter relay status signal (CAN)</li> </ul>
B260F: ENG STATE SIG LOST	Inhibit engine cranking	When any of the following conditions are fulfilled <ul style="list-style-type: none"> <li>Ignition switch position changes to ACC</li> <li>Receives engine status signal (CAN)</li> </ul>
B26F1: IGN RELAY OFF	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>Ignition switch ON signal (CAN: Transmitted from BCM): ON</li> <li>Ignition switch ON signal (CAN: Transmitted from IPDM E/R): ON</li> </ul>
B26F2: IGN RELAY ON	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>Ignition switch ON signal (CAN: Transmitted from BCM): OFF</li> <li>Ignition switch ON signal (CAN: Transmitted from IPDM E/R): OFF</li> </ul>
B26F3: START CONT RLY ON	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>Starter control relay signal (CAN: Transmitted from BCM): OFF</li> <li>Starter control relay signal (CAN: Transmitted from IPDM E/R): OFF</li> </ul>
B26F4: START CONT RLY OFF	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>Starter control relay signal (CAN: Transmitted from BCM): ON</li> <li>Starter control relay signal (CAN: Transmitted from IPDM E/R): ON</li> </ul>
B26F7: BCM	Inhibit engine cranking by Intelligent Key system	When room antenna and trunk room antenna functions normally

### 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:**

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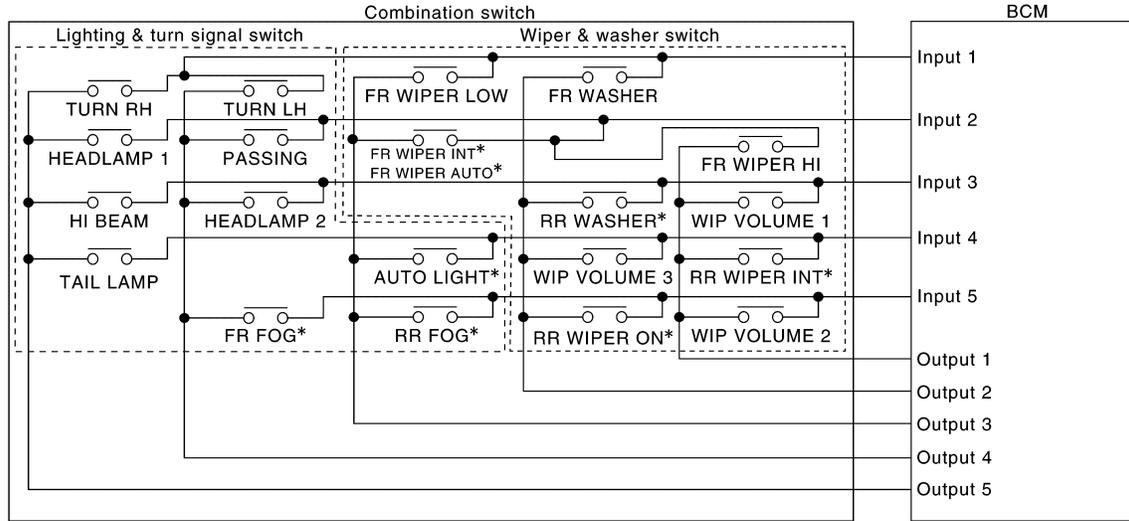
When voltage of battery power supply is approximately 9 V or more, combination switch reading function returns to normal operation.

## COMBINATION SWITCH READING SYSTEM

### COMBINATION SWITCH READING SYSTEM : System Description

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#### SYSTEM DIAGRAM



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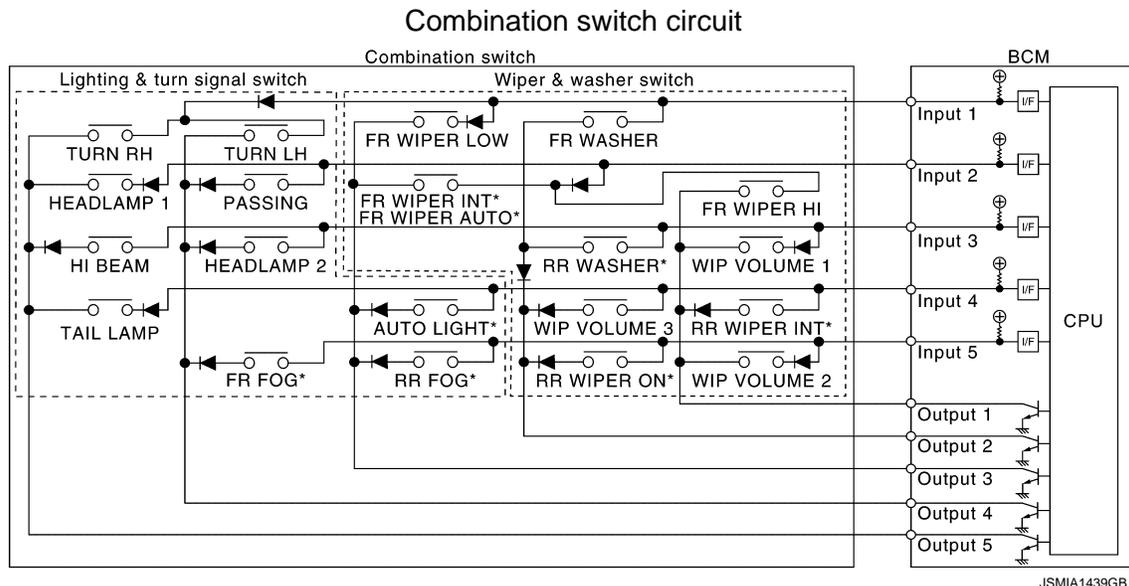
#### NOTE:

- \*: If so equipped.
- TAIL LAMP switch links lighting switch 1ST and 2ND positions.

#### OUTLINE

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

#### COMBINATION SWITCH MATRIX



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#### NOTE:

- \*: If so equipped.
- TAIL LAMP switch links lighting switch 1ST and 2ND positions.

# SYSTEM

## < SYSTEM DESCRIPTION >

Combination switch INPUT-OUTPUT system list

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

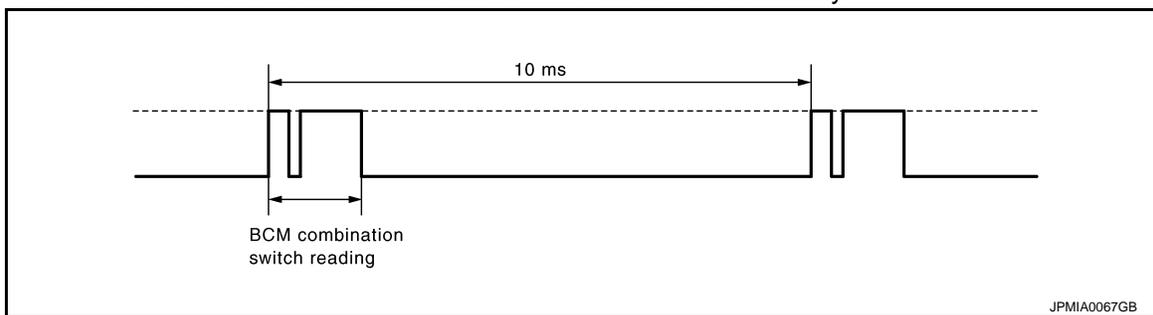
### NOTE:

- \*: If so equipped.
- Headlamp has a dual system switch.

## COMBINATION SWITCH READING FUNCTION

### Description

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



### NOTE:

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

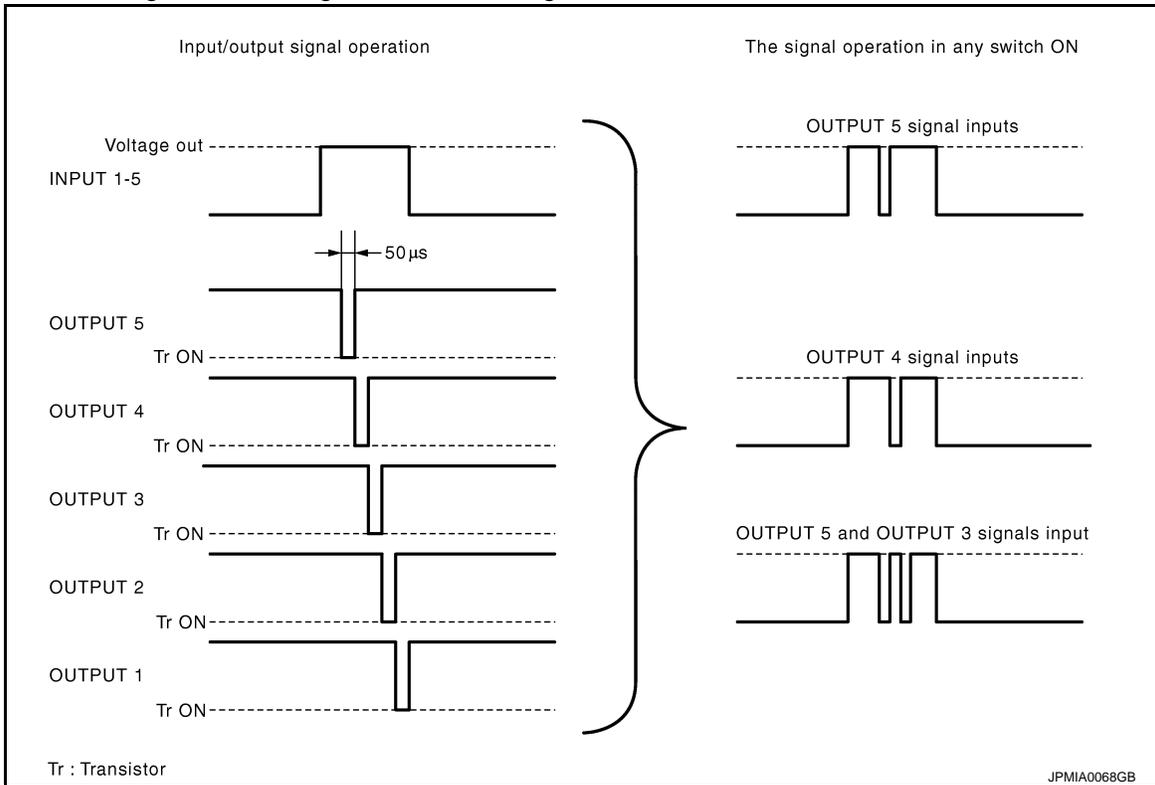
- BCM operates as follows and judges the status of the combination switch.
  - It operates the transistor on OUTPUT side in the following order: OUTPUT 5 → 4 → 3 → 2 → 1, and outputs voltage waveform.
  - The voltage waveform of OUTPUT corresponding to the formed circuit is input into the interface on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

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# SYSTEM

## < SYSTEM DESCRIPTION >

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

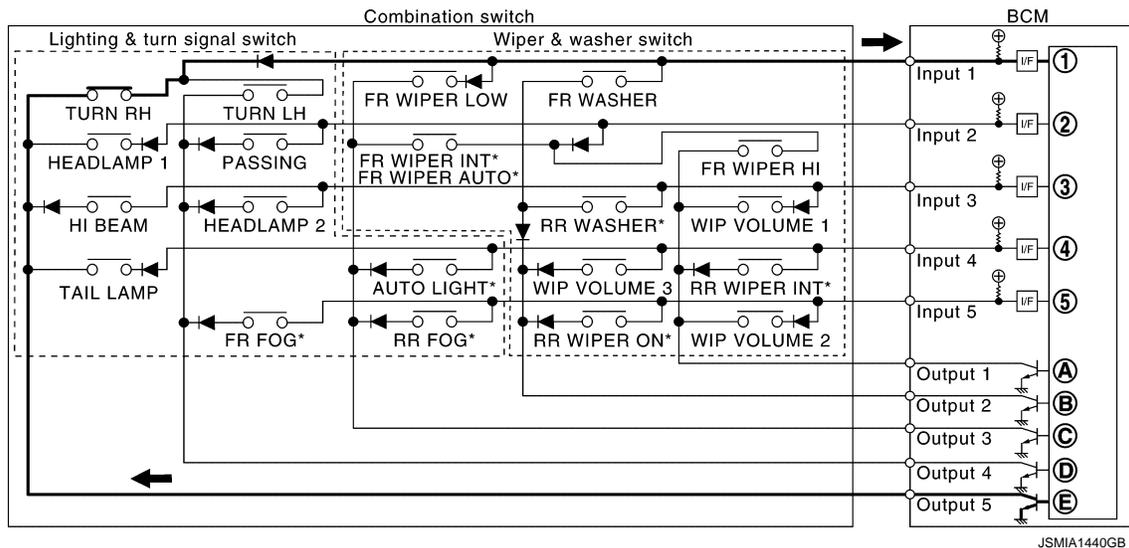


### Operation Example

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 4 and INPUT 5 is formed when the TAIL LAMP switch is turned ON.



### NOTE:

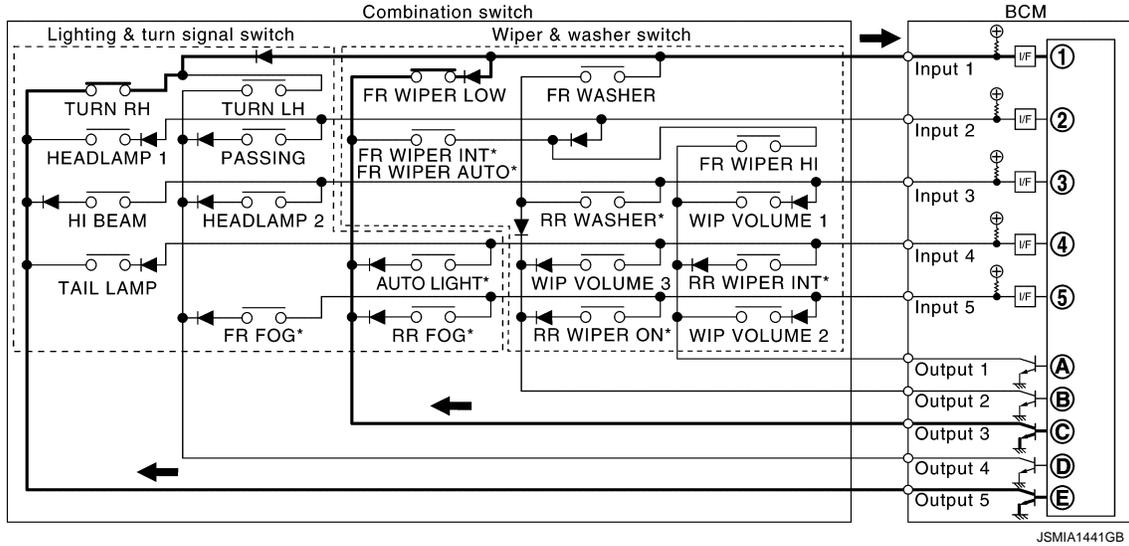
- \*: If so equipped.
- TAIL LAMP switch links lighting switch 1ST and 2ND positions.
- BCM detects the combination switch status signal "1E" when the signal of OUTPUT 5 is input to INPUT 1.
- BCM judges that the TURN RH switch is ON when the signal "1E" is detected.

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

# SYSTEM

## < SYSTEM DESCRIPTION >

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



### NOTE:

- \*: If so equipped.
- TAIL LAMP switch links lighting switch 1ST and 2ND positions.
- BCM detects the combination switch status signal "1CE" when the signals of OUTPUT 3 and OUTPUT 5 are input to INPUT 1.
- BCM judges that the TURN RH switch and FR WIPER LOW switch are ON when the signal "1CE" is detected.

### WIPER VOLUME DIAL POSITION

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

CONSULT data monitor		Switch status		
Monitor item	Value/Status	WIP VOLUME 1	WIP VOLUME 2	WIP VOLUME 3
INT VOLUME	1	ON	ON	ON
	2	ON	ON	OFF
	3	ON	OFF	OFF
	4	OFF	OFF	OFF
	5	OFF	OFF	ON
	6	OFF	ON	ON
	7	OFF	ON	OFF

### NOTE:

For details of wiper volume dial position, refer to [WW-8, "FRONT WIPER AND WASHER SYSTEM \(WITH RAIN SENSOR\) : System Description"](#) (with rain sensor) or [WW-13, "FRONT WIPER AND WASHER SYSTEM \(WITHOUT RAIN SENSOR\) : System Description"](#) (without rain sensor).

### SIGNAL BUFFER SYSTEM

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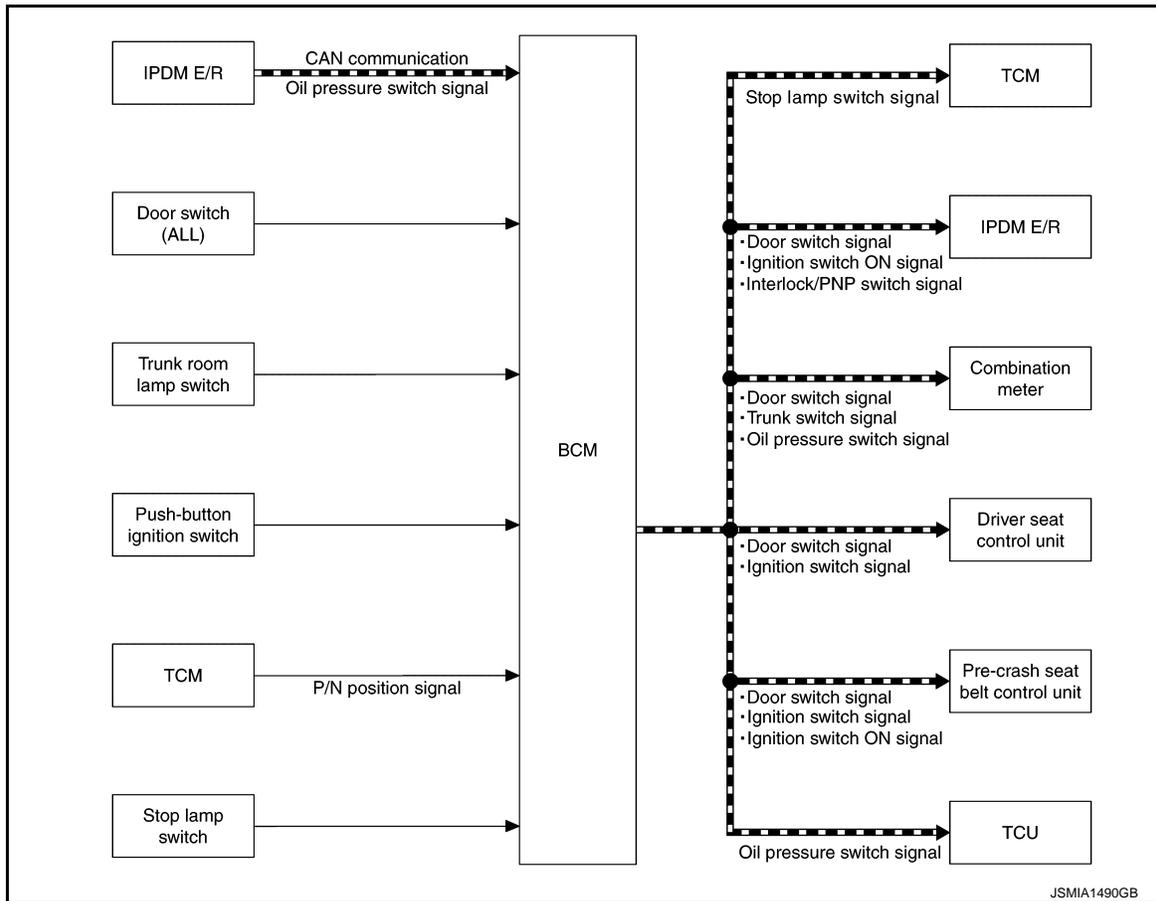
# SYSTEM

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## SIGNAL BUFFER SYSTEM : System Description

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### SYSTEM DIAGRAM



### OUTLINE

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

### Signal transmission function list

Signal name	Input	Output	Description
Oil pressure switch signal	IPDM E/R (CAN)	<ul style="list-style-type: none"> <li>Combination meter (CAN)</li> <li>TCU (CAN)</li> </ul>	Transmits the received oil pressure switch signal via CAN communication.
Door switch signal	Any door switch	<ul style="list-style-type: none"> <li>Combination meter (CAN)</li> <li>Driver seat control unit (CAN)</li> <li>IPDM E/R (CAN)</li> <li>Pre-crash seat belt control unit (CAN)</li> </ul>	Inputs the door switch signal and transmits it via CAN communication.
Trunk switch signal	Trunk room lamp switch	Combination meter (CAN)	Inputs the trunk room lamp switch signal and transmits trunk switch signal via CAN communication.
<ul style="list-style-type: none"> <li>Ignition switch ON signal</li> <li>Ignition switch signal</li> </ul>	Push-button ignition switch (Push switch)	<ul style="list-style-type: none"> <li>Driver seat control unit (CAN)</li> <li>IPDM E/R (CAN)</li> <li>Pre-crash seat belt control unit (CAN)</li> </ul>	Inputs the push-button ignition switch (push switch) signal and transmits the ignition switch status judged with BCM via CAN communication.

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## < SYSTEM DESCRIPTION >

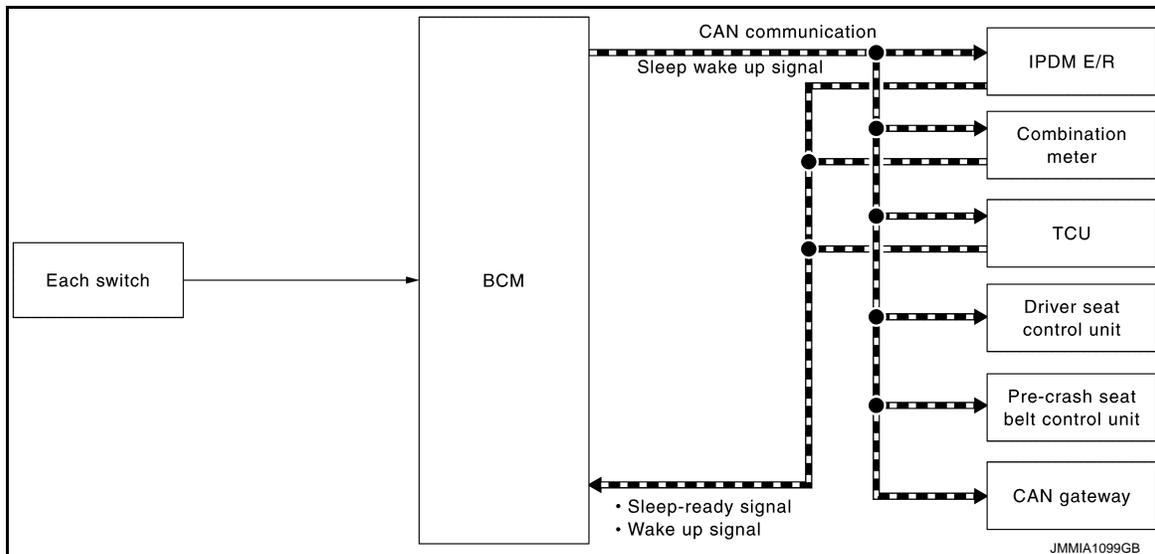
Signal name	Input	Output	Description
Interlock/PNP switch signal	TCM	IPDM E/R (CAN)	Inputs the P/N position signal via CAN communication.
Stop lamp switch signal	Stop lamp switch	TCM (CAN)	Inputs the stop lamp switch 1 signal and stop lamp switch 2 signal, and transmits it via CAN communication.

## POWER CONSUMPTION CONTROL SYSTEM

### POWER CONSUMPTION CONTROL SYSTEM : System Description

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#### SYSTEM DIAGRAM



#### OUTLINE

- BCM incorporates a power saving control function that reduces the power consumption according to the vehicle status.
- BCM switches the status (control mode) by itself with the power saving control function. It performs the sleep request to each unit (IPDM E/R, combination meter, TCU, driver seat control unit, pre-crash seat belt control unit and CAN gateway) 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 and TCU 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.

# SYSTEM

## < SYSTEM DESCRIPTION >

- BCM is in the low power consumption mode and perform the low power consumption control when all of the BCM sleep conditions are fulfilled with CAN sleep condition.

### Sleep condition

CAN sleep condition	BCM sleep condition
<ul style="list-style-type: none"> <li>• Receiving the sleep-ready signal (ready) from all units</li> <li>• 1 minute after turning Ignition switch OFF</li> <li>• Warning chime: Not operation</li> <li>• Intelligent Key warning buzzer: Not operation</li> <li>• Stop lamp switch: OFF</li> <li>• Turn signal indicator lamp: Not operation</li> <li>• Exterior lamp: OFF</li> <li>• Door lock status: No change</li> <li>• CONSULT communication status: Not communication</li> <li>• Meter display signal: Non-transmission</li> <li>• Door switch status: No change</li> </ul>	<ul style="list-style-type: none"> <li>• Interior room lamp battery saver: Time out*</li> <li>• Infiniti Vehicle Immobilizer System (IVIS) - NATS: Not operation</li> <li>• Remote keyless entry receiver communication status: No communication</li> <li>• RAP system: OFF</li> </ul>

### NOTE:

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

### Wake-up operation

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

### Wake-up condition

BCM wake-up condition	CAN wake-up condition
<ul style="list-style-type: none"> <li>• Door key cylinder switch: NEUTRAL → LOCK, NEUTRAL → UNLOCK</li> <li>• Door lock and unlock switch: NEUTRAL → LOCK, NEUTRAL → UNLOCK</li> <li>• Extended storage fuse switch: OFF → ON, ON → OFF</li> <li>• Trunk lid opener cancel switch: OFF → ON, ON → OFF</li> <li>• Front door lock assembly (driver side) (unlock sensor): OFF → ON, ON → OFF</li> <li>• One touch unlock sensor (driver door) signal: Receiving</li> <li>• One touch unlock sensor (passenger door) signal: Receiving</li> <li>• Power window or sunroof communication: Receiving</li> </ul>	<ul style="list-style-type: none"> <li>• Receiving the sleep-ready signal (Not-ready) from any units</li> <li>• Push-button ignition switch (push switch): OFF → ON</li> <li>• Hazard switch: OFF → ON</li> <li>• HI BEAM switch: OFF → ON, ON → OFF</li> <li>• PASSING switch: OFF → ON, ON → OFF</li> <li>• HEADLAMP 1 switch: OFF → ON, ON → OFF</li> <li>• HEADLAMP 2 switch: OFF → ON, ON → OFF</li> <li>• TAIL LAMP switch: OFF → ON</li> <li>• FR FOG switch: OFF → ON, ON → OFF</li> <li>• Driver door switch: OFF → ON, ON → OFF</li> <li>• Passenger door switch: OFF → ON, ON → OFF</li> <li>• Rear RH door switch: OFF → ON, ON → OFF</li> <li>• Rear LH door switch: OFF → ON, ON → OFF</li> <li>• Trunk room lamp switch: OFF → ON, ON → OFF</li> <li>• Driver door request switch: OFF → ON</li> <li>• Passenger door request switch: OFF → ON</li> <li>• Trunk lid opener switch: OFF → ON</li> <li>• Trunk lid opener request switch: OFF → ON</li> <li>• Stop lamp switch: ON</li> <li>• Remote keyless entry receiver communication: Receiving</li> </ul>

## SHIPPING MODE CONTROL SYSTEM

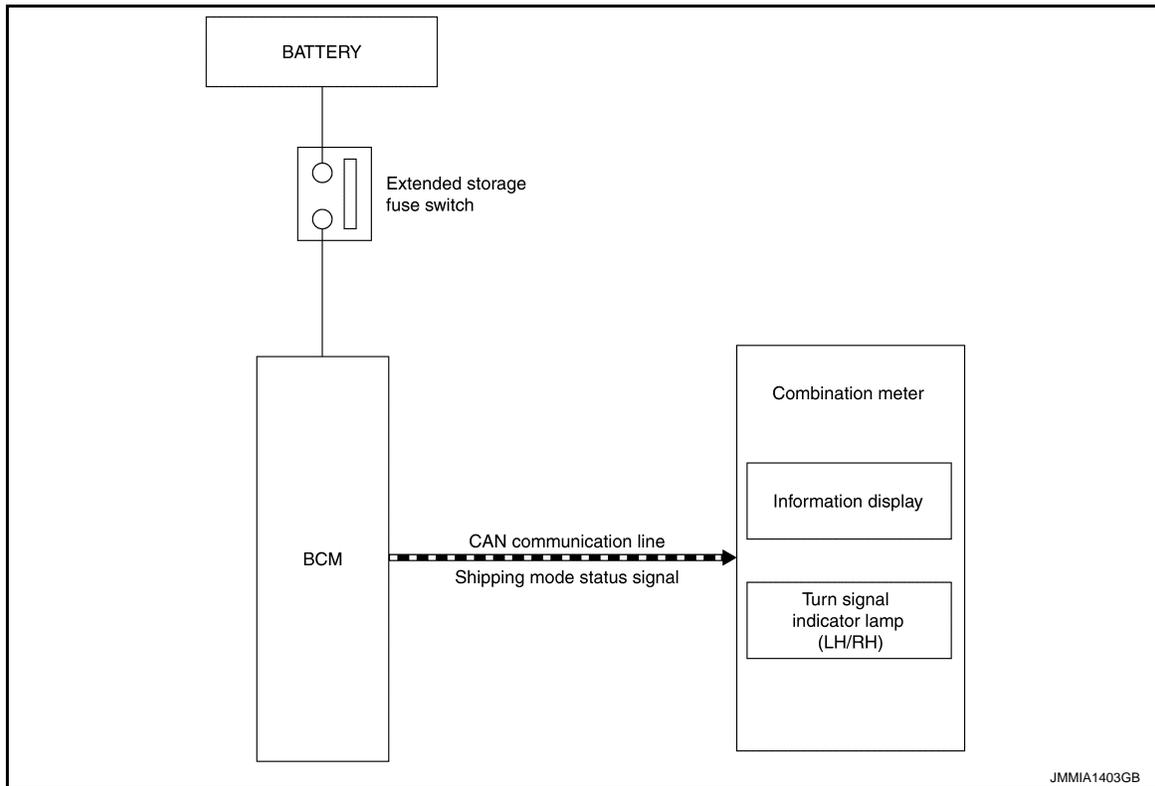
# SYSTEM

< SYSTEM DESCRIPTION >

## SHIPPING MODE CONTROL SYSTEM : System Description

INFOID:000000009602869

### 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-97, "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.

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# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

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

INFOID:000000009238994

#### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

#### SYSTEM APPLICATION

BCM can perform the following functions for each system.

#### NOTE:

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

×: Applicable item

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

\*: This item is not used.

#### FREEZE FRAME DATA (FFD)

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

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected*	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)
	LOCK>ACC		While turning power supply position from "LOCK" *to "ACC"
	ACC>ON		While turning power supply position from "ACC" to "IGN"
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF		While turning power supply position from "ACC" to "OFF"
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"*
	OFF>ACC		While turning power supply position from "OFF" to "ACC"
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*. ) to low power consumption mode
	LOCK		Power supply position is "LOCK" (Ignition switch OFF)*
	OFF		Power supply position is "OFF" (Ignition switch OFF)
	ACC		Power supply position is "ACC" (Ignition switch ACC)
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)
ENGINE RUN	Power supply position is "RUN" (Ignition switch ON with engine running)		
CRANKING	Power supply position is "CRANKING" (At engine cranking)		
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected <ul style="list-style-type: none"> <li>• The number is 0 when a malfunction is detected now.</li> <li>• The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON.</li> <li>• The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.</li> </ul>	

### NOTE:

\*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met.

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

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

## DOOR LOCK

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

INFOID:000000009725420

### BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

### WORK SUPPORT

## DIAGNOSIS SYSTEM (BCM)

### < SYSTEM DESCRIPTION >

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	Automatic door lock/unlock function (unlock operation) mode can be selected from the following in this mode <ul style="list-style-type: none"> <li>• MODE1: All doors are unlocked</li> <li>• MODE2: Only driver door is unlocked</li> </ul>
AUTO LOCK FUNCTION	Automatic door lock/unlock function (lock operation) mode can be selected from the following in the mode <ul style="list-style-type: none"> <li>• MODE1: All doors are locked when vehicle speed more than 24 km/h (15 MPH)</li> <li>• MODE2: All doors are locked when shifting the selector lever from P position to other than the P position</li> <li>• MODE3: Non-operation</li> <li>• Off: Non-operation</li> </ul>
AUTO UNLOCK FUNCTION	Automatic door lock/unlock function (unlock operation) mode can be selected from the following in this mode <ul style="list-style-type: none"> <li>• MODE1: All doors are unlocked when the power supply position is changed from ON to OFF</li> <li>• MODE2: All doors are unlocked when shifting the selector lever from any position other than the P to P position</li> <li>• MODE3: Non-operation</li> <li>• Off: Non-operation</li> </ul>
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 trunk lid opener 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	<b>NOTE:</b> This item is displayed, but cannot be monitored
CDL LOCK SW	Indicated [On/Off] condition of lock signal from door lock and unlock switch
CDL UNLOCK SW	Indicated [On/Off] condition of unlock signal from door lock and unlock switch
KEY CYL LK-SW	Indicated [On/Off] condition of lock signal from door key cylinder switch
KEY CYL UN-SW	Indicated [On/Off] condition of unlock signal from door key cylinder switch
SHOCK SENSOR	<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>• ALL LOCK: The all door lock actuators are locked.</li> <li>• ALL UNLK: The all door lock actuators are unlocked.</li> </ul>

### REAR WINDOW DEFOGGER

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

INFOID:000000009725432

### 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

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

### BUZZER

## BUZZER : CONSULT Function (BCM - BUZZER)

INFOID:000000009725433

### CONSULT APPLICATION ITEMS

Test item	Diagnosis mode	Description
BUZZER	Self Diagnostic Result	Displays the diagnosis results judged by BCM.
	Data Monitor	Displays BCM input data in real time.
	Active Test	Operation of electrical loads can be checked by sending driving signal to them.
	Ecu Identification	The BCM part number is displayed.

### SELF DIAG RESULT

Refer to [BCS-62, "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.

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

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# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Display item [Unit]	Description
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
SEAT BELT WARN TEST	The seat belt warning chime operation can be checked by operating the relevant function (On/Off).
LIGHT WARN ALM	The light warning chime operation can be checked by operating the relevant function (On/Off).
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:000000009725428

## WORK SUPPORT

Service item	Setting item	Setting
SCENARIO LIGHTING SETTING	On	<b>NOTE:</b> Do not use this function since interior room lamp control is changed.
	Off*	
SET I/L D-UNLCK INTCON	On	Without interior room lamp timer function
	Off*	With interior room lamp timer function
FOG LAMP OVERRIDE	On	With front fog override function
	Off*	Without front 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.

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)
REQ SW -RR [On/Off]	<b>NOTE:</b> This item is displayed, but cannot be monitored
REQ SW -RL [On/Off]	<b>NOTE:</b> This item is displayed, but cannot be monitored
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR [On/Off]	Indicates [On/Off] condition of driver door UNLOCK status
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
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]	<b>NOTE:</b> This item is displayed, but cannot be monitored
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]	Indicated [On/Off] condition of lock signal from door key cylinder switch
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder switch
TRNK/HAT MNTR [On/Off]	Indicates [On/Off] condition of trunk room lamp 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

## ACTIVE TEST

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

## HEADLAMP

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

INFOID:000000009725426

## WORK SUPPORT

Service item	Setting item	Setting
CUSTOM A/LIGHT SETTING	MODE 1*	Normal
	MODE 2	More sensitive setting than normal setting. (Turns ON earlier than normal operation.)
	MODE 3	More sensitive setting than MODE 2. (Turns ON earlier than MODE 2.)
	MODE 4	Less sensitive setting than normal setting. (Turns ON later than normal operation.)

BCS

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Service item	Setting item	Setting
ILL DELAY SET	MODE 1*	45 sec.
	MODE 2	Without delay timer function
	MODE 3	30 sec.
	MODE 4	60 sec.
	MODE 5	90 sec.
	MODE 6	120 sec.
	MODE 7	150 sec.
	MODE 8	180 sec.
TWILIGHT On	MODE 1	Without twilight function
	MODE 2*	With twilight ON function
WIPER LINK	MODE 1	Without wiper link function
	MODE 2	With wiper LO and HI
	MODE 3*	With wiper INT, LO and HI
	MODE 4	<b>NOTE:</b> This item is displayed, but cannot be used.

\*: 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]	
HEAD LAMP SW1 [On/Off]	
HEAD LAMP SW2 [On/Off]	
PASSING SW [On/Off]	
AUTO LIGHT SW [On/Off]	
FR FOG SW [On/Off]	
RR FOG SW [On/Off]	
	<b>NOTE:</b> This item is displayed, but cannot be monitored.

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
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]	<b>NOTE:</b> This item is displayed, but cannot be monitored.
OPTI SEN (DTCT) [V]	The value of outside brightness voltage input from the optical sensor
OPTI SEN (FILT) [V]	The value of outside brightness voltage filtered by BCM
OPTICAL SENSOR [On/Off/NG]	<b>NOTE:</b> This item is displayed, but cannot be monitored.

## ACTIVE TEST

Test item	Operation	Description
FR FOG LAMP	On	Transmits the front fog light request signal to IPDM E/R using CAN communication to turn the front fog lamp ON.
	Off	Stops the front fog light request signal transmission.
RR FOG LAMP	On	<b>NOTE:</b> This item is displayed, but cannot be tested.
	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	<ul style="list-style-type: none"> <li>Transmits the dimmer signal to combination meter via CAN communication and dims combination meter.</li> <li>Transmits the dimmer signal to display control unit and dims display.</li> </ul>
	Off	Stops the dimmer signal transmission.

## WIPER

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

INFOID:000000009725430

BCS

## WORK SUPPORT

Service item	Setting item	Description
RAIN SENSOR*1	On*3	With rain sensor (Front wiper intermittent time linked with the rain sensor, vehicle speed, and AUTO dial position)
	Off	Without rain sensor (Front wiper intermittent time linked with the vehicle speed and AUTO dial position)
WIPER SPEED SETTING*2	On	Linked with vehicle speed (Front wiper intermittent time linked with the vehicle speed and wiper intermittent dial position.)
	Off*3	Not linked with vehicle speed (Front wiper intermittent time linked with the wiper intermittent dial position.)

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Service item	Setting item	Description	
FR RR DRIP	On*3	Front wiper drop wipe ON	The setting of drop wipe operation can be changed
	Off	Front wiper drop wipe OFF	

\*1: With rain sensor

\*2: Without rain sensor

\*3: Factory setting

## DATA MONITOR

### NOTE:

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

Monitor Item [Unit]	Description
PUSH SW [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 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]	<b>NOTE:</b> The item is indicated, but not monitored.
RR WIPER INT [Off/On]	<b>NOTE:</b> The item is indicated, but not monitored.
RR WASHER SW [Off/On]	<b>NOTE:</b> The item is indicated, but not monitored.
RR WIPER STOP [Off/On]	<b>NOTE:</b> The item is indicated, but not monitored.
H/L WSR SW [Off/On]	<b>NOTE:</b> This item is indicated, but not monitored
RAIN SENSOR* [OFF/LOW/HIGH/SPLASH/NG]	Request signal from rain sensor detected by BCM is displayed

\*: For models without rain sensor, this item is displayed, but can not be monitored.

## ACTIVE TEST

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

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Test item	Operation	Description
RR WIPER	<b>NOTE:</b> The item is indicated, but not used.	
HEADLAMP WASHER	<b>NOTE:</b> The item is indicated, but not used.	

## FLASHER

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

INFOID:000000009725427

#### 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
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.

#### ACTIVE TEST

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

## INTELLIGENT KEY

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

INFOID:000000009725421

#### WORK SUPPORT

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# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock function (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	Reminder function (trunk lid opener request switch) 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 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	Starter motor can operate during the times below <ul style="list-style-type: none"> <li>• 70 msec</li> <li>• 100 msec</li> <li>• 200 msec</li> </ul>
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode
RETRACTABLE MIRROR SET	<b>NOTE:</b> This item is displayed, but cannot be used
TOUCH SENSOR UNLOCK FUNCTION SETTING	One touch unlock 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>
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>
REMOTE ENGINE STARTER	<b>NOTE:</b> This item is displayed, but cannot be used
INTELLIGENT KEY LINK SET	<b>NOTE:</b> This item is displayed, but cannot be used
ANSWER BACK	Reminder function (door request switch and Intelligent Key) mode can be selected from the following with this mode <ul style="list-style-type: none"> <li>• On: S mode (buzzer or horn reminder non-operation)</li> <li>• Off: C mode (buzzer or horn operate)</li> </ul>
ANSWER BACK I-KEY LOCK UNLOCK	Reminder function (door request switch) mode can be selected from the following with this mode <ul style="list-style-type: none"> <li>• BUZZER: Sound Intelligent Key warning buzzer</li> <li>• HORN: Sound horn</li> <li>• Off: Only hazard warning lamp operate</li> <li>• INVALID: This item is displayed, but cannot be used</li> </ul>
ANSWERBACK KEYLESS LOCK UNLOCK	Reminder function (Intelligent Key) mode can be selected from the following with this mode <ul style="list-style-type: none"> <li>• On: Horn and hazard warning lamp operate</li> <li>• Off: Only hazard warning lamp operate</li> </ul>
WELCOME LIGHT OP SET	<b>NOTE:</b> This item is displayed, but cannot be used

### SELF-DIAG RESULT

Refer to [BCS-62, "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.

Monitor Item	Condition
REQ SW -DR	Indicates [On/Off] condition of front door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of front door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of trunk lid opener request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
SHFTLCK SLNID PWR SPLY	Indicates [On/Off] condition of the power supply from BCM to shift lock solenoid
CLUCH SW	<b>NOTE:</b> This item is displayed, but cannot be monitored
BRAKE SW 1	Indicates [On/Off]* condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
DETE/CANCL SW	Indicates [On/Off] condition of P position
SFT PN/N SW	Indicates [On/Off] condition of P or N position
UNLK SEN -DR	Indicates [On/Off] condition of driver door UNLOCK status
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
DETE SW -IPDM	Indicates [On/Off] condition of P position
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
SFT P -MET	Indicates [On/Off] condition of P position
SFT N -MET	Indicates [On/Off] condition of N position
ENGINE STATE	Indicates [STOP/STALL/CRANK/RUN] condition of engine states
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [km/h]
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [km/h]
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of 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
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

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# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item	Condition
SHORT CRANK	<b>NOTE:</b> This item is displayed, but not used
DETE SW PWR	Indicates [On/Off] condition of the power supply from BCM to the A/T shift selector (detention switch)
IGN RLY3-REQ	Indicates [On/Off] condition of blower relay control signal
ACC RLY-REQ	Indicates [On/Off] condition of accessory relay control signal
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
TRNK/HAT MNTR	Indicates [On/Off] condition of trunk room lamp 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	Indicates [On/Off] condition of trunk open signal from Intelligent Key
RKE-PANIC	Indicates [On/Off] condition of panic alarm signal from Intelligent Key
RKE-MODE CHG	<b>NOTE:</b> This item is displayed, but cannot be monitored
RKE PBD	<b>NOTE:</b> This item is displayed, but cannot be monitored

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

## ACTIVE TEST

Test item	Description
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation <ul style="list-style-type: none"> <li>• On: Operates</li> <li>• Off: Non-operation</li> </ul>
INSIDE BUZZER	This test is able to check warning chime in combination meter operation <ul style="list-style-type: none"> <li>• Take Out: Take away warning chime sounds when CONSULT screen is touched</li> <li>• Key: Key warning chime sounds when CONSULT screen is touched</li> <li>• Knob: OFF position warning chime sounds when CONSULT screen is touched</li> <li>• Off: Non-operation</li> </ul>
INDICATOR	This test is able to check information display (combination meter) operation <ul style="list-style-type: none"> <li>• KEY ON: [Intelligent Key system malfunction] displays when CONSULT screen is touched</li> <li>• KEY IND: [Steering lock unit ID registration complete] displays when CONSULT screen is touched</li> <li>• Off: Non-operation</li> </ul>
INT LAMP	This test is able to check interior room lamp operation <ul style="list-style-type: none"> <li>• On: Operates</li> <li>• Off: Non-operation</li> </ul>
FLASHER	This test is able to check hazard warning lamp operation The hazard warning lamps are activated after "LH/RH/Off" on CONSULT screen is touched
HORN	This test is able to check horn operation <ul style="list-style-type: none"> <li>• On: Operates</li> </ul>
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
PUSH SWITCH INDICATOR	This test is able to check push-ignition switch indicator operation when "On" on CONSULT screen is touched
ACC CONT	This test is able to operate the accessory relay in fuse block (J/B) <ul style="list-style-type: none"> <li>• On: Operates</li> <li>• Off: Non-operation</li> </ul>

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Test item	Description
IGN CONT1	This test is able to operate the ignition relay in IPDM E/R <ul style="list-style-type: none"> <li>On: Operates</li> <li>Off: Non-operation</li> </ul>
IGNITION RELAY	This test is able to operate the ignition relay in fuse block (J/B) <ul style="list-style-type: none"> <li>On: Operates</li> <li>Off: Non-operation</li> </ul>
ST CONT LOW	This test is able to operate the starter relay in IPDM E/R <ul style="list-style-type: none"> <li>On: Non-operation</li> <li>Off: Operates</li> </ul>
BATTERY SAVER	This test is able to check interior room lamp battery saver operation <ul style="list-style-type: none"> <li>On: Outputs interior room lamp power supply to turn interior room lamps ON.</li> <li>Off: Cuts interior room lamp power supply to turn interior room lamps OFF.</li> </ul>
TRUNK/BACK DOOR	This test is able to check trunk lid open operation. This actuator opens when "Open" on CONSULT screen is touched.
RETRACTABLE MIRROR	<b>NOTE:</b> This item is displayed, but cannot be used
INTELLIGENT KEY LINK(CAN)	<b>NOTE:</b> This item is displayed, but cannot be used
REVERSE LAMP TEST	<b>NOTE:</b> This item is displayed, but cannot be used
DOOR HANDLE LAMP TEST	This test is able to check outside handle lamp operation <ul style="list-style-type: none"> <li>On: Operates</li> <li>Off: Non-operation</li> </ul>
DR SEAT LAMP TEST	<b>NOTE:</b> This item is displayed, but cannot be used
AS SEAT LAMP TEST	<b>NOTE:</b> This item is displayed, but cannot be used
SHIFT SPOT LAMP TEST	<b>NOTE:</b> This item is displayed, but cannot be used
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk room lamp operation <ul style="list-style-type: none"> <li>On: Operates</li> <li>Off: Non-operation</li> </ul>
KEYFOB P/W TEST	This test is able to check keyless power window up/down operation <ul style="list-style-type: none"> <li>Up: Non-operation</li> <li>Down*: Power window and sunroof open</li> <li>Off: Non-operation</li> </ul>
SHIFTLOCK SORENOID TEST	<b>NOTE:</b> This item is displayed, but cannot be used

\*: When ignition switch is OFF, driver door opened, power window and sunroof is closed.

## COMB SW

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

INFOID:000000009239003

## 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.

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item [UNIT]	Description
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]	<b>NOTE:</b> This item is displayed, but cannot be monitored
RR WIPER INT [Off/On]	<b>NOTE:</b> This item is displayed, but cannot be monitored
RR WASHER SW [Off/On]	<b>NOTE:</b> This item is displayed, but cannot be monitored
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 1 [Off/On]	Displays the status of the HEADLAMP 1 switch in combination switch judged by BCM with the combination switch reading function.
HEAD LAMP SW 2 [Off/On]	Displays the status of the HEADLAMP 2 switch in combination switch judged by BCM with the combination switch reading function.
PASSING SW [Off/On]	Displays the status of the PASSING switch in combination switch judged by BCM with the combination switch reading function.
AUTO LIGHT SW [Off/On]	Displays the status of the AUTO LIGHT switch in combination switch judged by BCM with the combination switch reading function.
FR FOG SW [Off/On]	Displays the status of the FR FOG switch in combination switch judged by BCM with the combination switch reading function.
RR FOG SW [Off/On]	<b>NOTE:</b> This item is displayed, but cannot be monitored

## BCM

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

INFOID:000000009239004

## WORK SUPPORT

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

## IMMU

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

INFOID:000000009725424

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

## ACTIVE TEST

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

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

INFOID:000000009725429

## 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)
REQ SW -RR [On/Off]	<b>NOTE:</b> This item is displayed, but cannot be monitored
REQ SW -RL [On/Off]	<b>NOTE:</b> This item is displayed, but cannot be monitored
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR [On/Off]	Indicates [On/Off] condition of driver door UNLOCK status
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]	<b>NOTE:</b> This item is displayed, but cannot be monitored

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
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]	Indicated [On/Off] condition of lock signal from door key cylinder switch
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder switch
TRNK/HAT MNTR [On/Off]	Indicates [On/Off] condition of trunk room lamp 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

## ACTIVE TEST

Test item	Operation	Description
BATTERY SAVER	Off	Outputs interior room lamp power supply.
	On	Stops interior room lamp power supply.

## TRUNK

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

INFOID:000000009725422

### 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-button ignition switch
UNLK SEN -DR	Indicates [On/Off] condition of unlock sensor
VEH SPEED 1	Indicates [km/h] condition of vehicle speed signal from combination meter
KEY CYL SW-TR	<b>NOTE:</b> This item is displayed, but cannot be monitored
TR CANCEL SW	Indicates [On/Off] condition of trunk lid opener cancel switch
TR/BD OPEN SW	Indicates [On/Off] condition of trunk lid opener switch
TRNK/HAT MNTR	Indicates [On/Off] condition of trunk room lamp switch
RKE-TR/BD	Indicates [On/Off] condition of trunk open signal from Intelligent Key

## THEFT ALM

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

INFOID:000000009725423

### 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).

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitored Item	Description
REQ SW -RR	<b>NOTE:</b> This item is indicated, but not monitored.
REQ SW -RL	<b>NOTE:</b> This item is indicated, but not monitored.
REQ SW -BD/TR	Indicates [On/Off] condition of trunk lid opener request switch.
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR	Indicates [On/Off] condition of driver door UNLOCK status.
DOOR SW-DR	Indicates [On/Off] condition of front door switch (driver side).
DOOR SW-AS	Indicates [On/Off] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [On/Off] condition of rear door switch RH.
DOOR SW-RL	Indicates [On/Off] condition of rear door switch LH.
DOOR SW-BK	<b>NOTE:</b> This item is indicated, but not monitored.
CDL LOCK SW	Indicates [On/Off] condition of lock signal from door lock/unlock switch.
CDL UNLOCK SW	Indicates [On/Off] condition of unlock signal from door lock/unlock switch.
KEY CYL LK-SW	Indicates [On/Off] condition of lock signal from door key cylinder switch.
KEY CYL UN-SW	Indicates [On/Off] condition of unlock signal from door key cylinder switch.
KEY CYL SW-TR	<b>NOTE:</b> This item is indicated, but not monitored.
TR/BD OPEN SW	Indicates [On/Off] condition of trunk lid opener switch.
TRNK/HAT MNTR	Indicates [On/Off] condition of trunk room lamp switch.
SEN CANCEL SW	<b>NOTE:</b> This item is indicated, but not monitored.
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key.
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key.
RKE-TR/BD	Indicates [On/Off] condition of TRUNK OPEN signal from Intelligent Key.

## WORK SUPPORT

Service Item	Description
SECURITY ALARM SET	This mode is able to confirm and change security alarm "On" - "Off" setting.

## ACTIVE TEST

Test Item	Description
FLASHER	This test is able to check turn signal lamp operation. Turn signal lamp is activated after "LH" or "RH" on CONSULT screen is touched.
THEFT IND	This test is able to check security indicator lamp operation. Security indicator lamp is turned on when "On" on CONSULT screen is touched.
VEHICLE SECURITY HORN	This test is able to check horn operation. Horn is activated for 0.5 seconds after "On" on CONSULT screen is touched.
HEADLAMP(HI)	This test is able to check headlamps operation. Headlamps are turned on when "On" on CONSULT screen is touched.

## RETAIND PWR

### RETAIND PWR : CONSULT Function (BCM - RETAINED PWR)

INFOID:000000009725425

#### Data monitor

#### **NOTE:**

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

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

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

## SIGNAL BUFFER

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

INFOID:000000009239010

#### DATA MONITOR

##### NOTE:

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

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

## ACTIVE TEST

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

## AIR PRESSURE MONITOR

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

INFOID:000000009725445

#### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Active Test	Send the drive signal from CONSULT to the actuator. The operation check can be performed.

## ACTIVE TEST

Test Item	Description
FLASHER	This test is able to check turn signal lamp operation [Off/LH/RH].
HORN	This test is able to check horn operation [On].
WARNING LAMP	This test is able to check tire pressure warning lamp operation [On/Off].
ID REGIST WARNING	This test is able to check ID regist warning chime operation [On/Off].
RUN FLAT TIRE W/L	This item is displayed, but cannot be use this item.
RUN FLAT/T WARN BUZZER	This test is able to run flat tire warning chime operation [On/Off].

# BCM

< ECU DIAGNOSIS INFORMATION >

## ECU DIAGNOSIS INFORMATION

### BCM

#### Reference Value

INFOID:0000000009602873

#### 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 -RR	<b>NOTE:</b> The item is indicated, but not monitored.	Off
REQ SW -RL	<b>NOTE:</b> The item is indicated, but not monitored.	Off

# BCM

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
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
SHFTLCK SLNID PWR SPLY	When BCM is not supplying power to shift lock solenoid		Off
	When BCM is supplying power to shift lock solenoid		On
CLUCH SW	<b>NOTE:</b> The item is indicated, but not monitored.		Off
BRAKE SW 1	The brake pedal is not depressed		Off
	The brake pedal is depressed		On
BRAKE SW 2	The brake pedal is depressed when No. 19 fuse is blown		Off
	The brake pedal is not depressed when No. 19 fuse is blown, or No. 10 fuse is normal		On
DETE/CANCL SW	Selector lever in P position	Release selector button	Off
		Push selector button	On
	Selector lever in any position other than P		On
SFT PN/N SW	Selector lever in any position other than P or N		Off
	Selector lever in P or N position		On
S/L -LOCK	<b>NOTE:</b> The item is indicated, but not monitored.		Off
S/L -UNLOCK	<b>NOTE:</b> The item is indicated, but not monitored.		Off
S/L RELAY-F/B	<b>NOTE:</b> The item is indicated, but not monitored.		Off
S/L LIMIT SW1	<b>NOTE:</b> The item is indicated, but not monitored.		Off
S/L LIMIT SW2	<b>NOTE:</b> The item is indicated, but not monitored.		Off
UNLK SEN -DR	Driver door is locked		Off
	Driver door is unlocked		On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed		Off
	Push-button ignition switch (push-switch) is pressed		On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position		Off
	Ignition switch in ON position		On
DETE SW -IPDM	Selector lever in any position other than P		Off
	Selector lever in P position	Push selector button	On
		Release selector button	On
SFT PN -IPDM	Selector lever in any position other than P or N		Off
	Selector lever in P or N position		On
SFT P -MET	Selector lever in any position other than P		Off
	Selector lever in P position		On
SFT N -MET	Selector lever in any position other than N		Off
	Selector lever in N position		On
ENGINE STATE	Engine stopped		STOP
	While the engine stalls		STALL
	At engine cranking		CRANK
	Engine running		RUN

# BCM

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
S/L LOCK-IPDM	<b>NOTE:</b> The item is indicated, but not monitored.	Off	A
S/L UNLK-IPDM	<b>NOTE:</b> The item is indicated, but not monitored.	Off	B
S/L RELAY-REQ	<b>NOTE:</b> The item is indicated, but not monitored.	Off	
VEH SPEED 1	While driving	Equivalent to speedometer reading	C
VEH SPEED 2	While driving	Equivalent to speedometer reading	D
S/L ACK	<b>NOTE:</b> The item is indicated, but not monitored.	STAT	
DOOR STAT-DR	Driver door is locked	LOCK	E
	Driver door is unlocked	UNLOCK	
DOOR STAT-AS	Passenger door is locked	LOCK	F
	Passenger door is unlocked	UNLOCK	
DOOR STAT-RR	Rear door RH is locked	LOCK	G
	Rear door RH is unlocked	UNLOCK	
DOOR STAT-RL	Rear door LH is locked	LOCK	H
	Rear door LH is unlocked	UNLOCK	
BK DOOR STATE	Trunk lid is locked	LOCK	I
	Trunk lid is unlocked	UNLOCK	
ID OK FLAG	<b>NOTE:</b> The item is indicated, but not monitored.	Reset	J
PRMT ENG STRT	When the engine start is prohibited	Reset	
	When the engine start is permitted	Set	
PRMT RKE STRT	<b>NOTE:</b> The item is indicated, but not monitored.	Reset	K
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	
PRBT S/L LOCK	<b>NOTE:</b> The item is indicated, but not monitored.	Reset	L
PRBT ENG STRT	Not activated fail safe function	Reset	
	Engine start is prohibited by fail safe function	SET	BCS
ID AUTHENT CANCEL TIMER	Engine start is prohibited without Intelligent Key	STOP	
	Engine start is permitted without Intelligent Key	OPRAT	
ACC BATTERY SAVER	ACC battery saver timer is stop	STOP	N
	ACC battery saver timer is running	OPRAT	
CRNK PRBT TMR	Cranking is permitted	Off	O
	Cranking is prohibited	On	
AUT CRANK TMR	Not auto cranking	Off	P
	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.	—	

# BCM

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
ST RLY-REQ	<b>NOTE:</b> The item is indicated, but not monitored.	Off
IGN RLY1 -REQ	<b>NOTE:</b> The item is indicated, but not monitored.	Off
IGN RLY2 -REQ	<b>NOTE:</b> The item is indicated, but not monitored.	Off
DETE SW PWR	<b>NOTE:</b> The item is indicated, but not monitored.	Off
IGN RLY3-REQ	<b>NOTE:</b> The item is indicated, but not monitored.	Off
S/L PWR	<b>NOTE:</b> The item is indicated, but not monitored.	Off
ACC RLY-REQ	<b>NOTE:</b> The item is indicated, but not monitored.	Off
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the key
RKE OPE COUN2	<b>NOTE:</b> The item is indicated, but not monitored.	—
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT/AUTO	Off
	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume dial position
RR WIPER ON	<b>NOTE:</b> The item is indicated, but not monitored.	Off
RR WIPER INT	<b>NOTE:</b> The item is indicated, but not monitored.	Off
RR WASHER SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off
RR WIPER STOP	<b>NOTE:</b> The item is indicated, but not monitored.	Off
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 or 2ND	Off
	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On

# BCM

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
HEAD LAMP SW 2	Other than lighting switch 2ND	Off	A
	Lighting switch 2ND	On	
PASSING SW	Other than lighting switch PASS	Off	B
	Lighting switch PASS	On	
AUTO LIGHT SW	Other than lighting switch AUTO	Off	C
	Lighting switch AUTO	On	
FR FOG SW	Front fog lamp switch OFF	Off	
	Front fog lamp switch ON	On	D
RR FOG SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off	
DOOR SW-DR	Driver door closed	Off	E
	Driver door opened	On	
DOOR SW-AS	Passenger door closed	Off	F
	Passenger door opened	On	
DOOR SW-RR	Rear RH door closed	Off	G
	Rear RH door opened	On	
DOOR SW-RL	Rear LH door closed	Off	H
	Rear LH door opened	On	
DOOR SW-BK	<b>NOTE:</b> The item is indicated, but not monitored.	Off	
CDL LOCK SW	Other than power door lock switch LOCK	Off	I
	Power door lock switch LOCK	On	
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off	J
	Power door lock switch UNLOCK	On	
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off	K
	Driver door key cylinder LOCK position	On	
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off	L
	Driver door key cylinder UNLOCK position	On	
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	BCS
REAR DEF SW	Rear window defogger switch OFF	Off	
	Rear window defogger switch ON	On	
H/L WSR SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off	N
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off	O
	Trunk lid opener cancel switch ON	On	
TR/BD OPEN SW	Trunk lid opener switch OFF	Off	P
	While the trunk lid opener switch is turned ON	On	
TRNK/HAT MNTR	Trunk lid closed	Off	
	Trunk lid opened	On	
FAN ON SIG	<b>NOTE:</b> The item is indicated, but not monitored.	Off	
AIR COND SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off	

# BCM

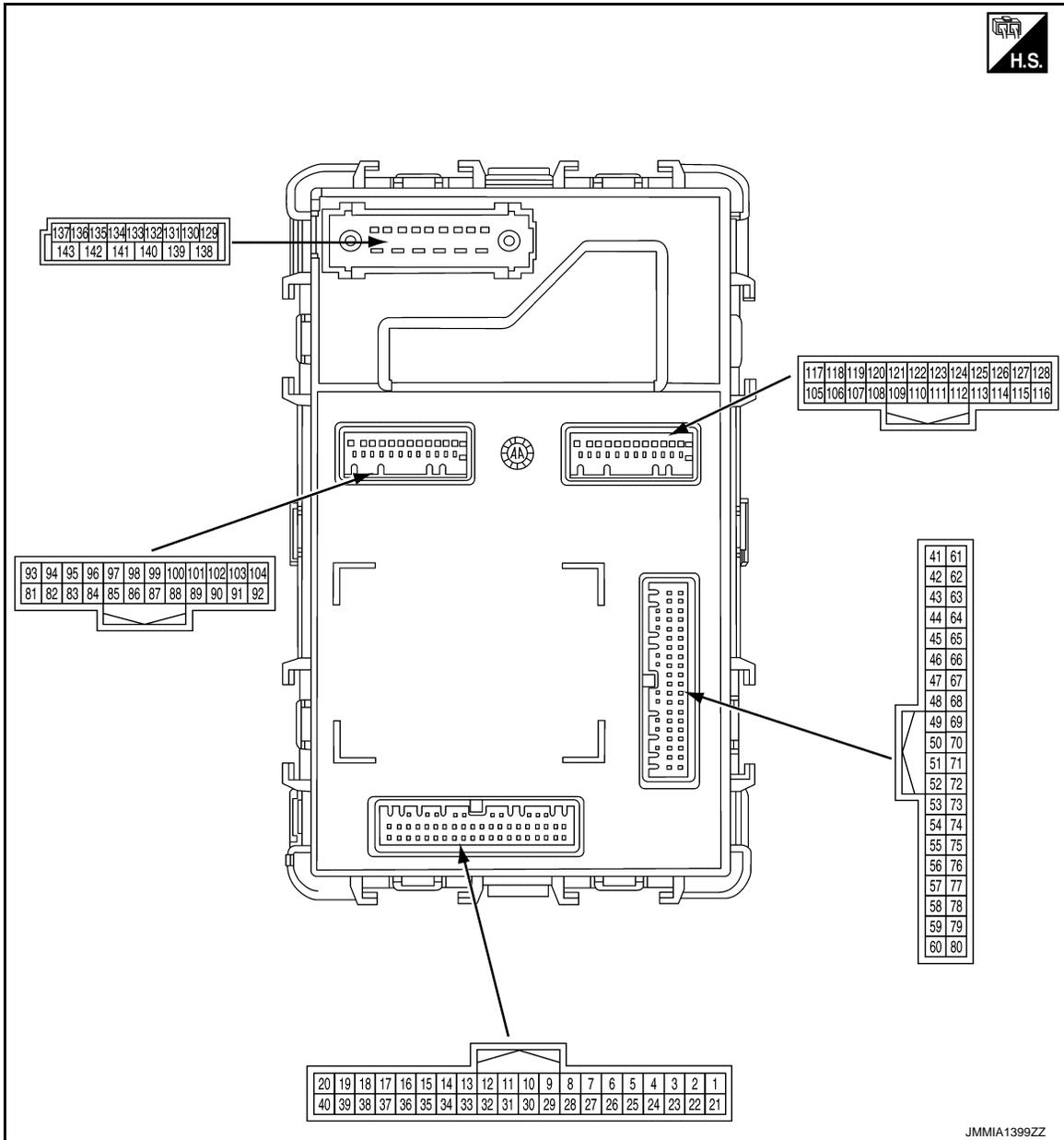
## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
SEN CANCEL SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off
THERMO AMP	<b>NOTE:</b> The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is not pressed	Off
	TRUNK OPEN button of the Intelligent Key is pressed	On
RKE-PANIC	<b>NOTE:</b> The item is indicated, but not monitored.	Off
RKE-MODE CHG	<b>NOTE:</b> The item is indicated, but not monitored.	Off
RKE PBD	<b>NOTE:</b> The item is indicated, but not monitored.	Off
SHOCK SENSOR	Air bag signal (NORMAL) is detected.	NOMAL
	Air bag signal (AIR BAG OPEN) is detected.	On
	Air bag signal is not detected.	Off
OPTI SEN (DTCT)	Bright outside of the vehicle	Close to 5 V
	Dark outside of the vehicle	Close to 0 V
OPTI SEN (FILT)	Bright outside of the vehicle (Lighting switch AUTO)	Close to 5 V
	Dark outside of the vehicle (Lighting switch AUTO)	Close to 1.50 V
OPTICAL SENSOR	<b>NOTE:</b> The item is indicated, but not monitored.	Off
RAIN SENSOR	No rain (or very light rain)	Off
	Light rain	LOW
	Heavy rain	HIGH
	When liquid is splashed on the front window	SPLSH
	Rain sensor internal error	NG

# BCM

< ECU DIAGNOSIS INFORMATION >

## TERMINAL LAYOUT



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## PHYSICAL VALUES

BCS

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
1 (R)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ignition switch (push switch)	Pressed	0 - 1.5 V
					Not pressed	9 - 16 V
3 (Y)	Ground	Sensor power supply	Output	Ignition switch	OFF	0 V
					ON	4.65 - 5.5 V
4 (BG)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
					When dark outside of the vehicle	Close to 0 V
5*1 (LG)	Ground	Shock status	Input	—		—

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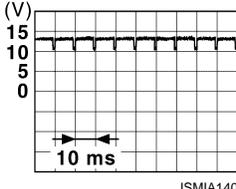
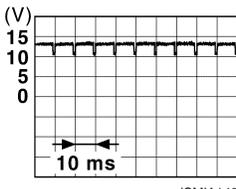
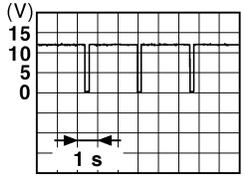
# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
10 (W)	Ground	Combination switch OUTPUT 5	Output	Combination switch	All switches OFF	0 V
					Turn signal switch RH	
					Lighting switch 1ST	
					Lighting switch 2ND	
					Lighting switch HI	
					10.7 V	
11 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch	All switches OFF	0 V
					Turn signal switch LH	
					Lighting switch 2ND	
					Lighting switch PASS	
					Front fog lamp switch ON	
					10.7 V	
12 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	All switches OFF	0 V
					Front wiper switch LO	
					Front wiper switch MIST	
					Front wiper switch INT/ AUTO	
					Lighting switch AUTO	
					10.7 V	
13 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF	0 V
					Front washer switch ON	
Any of the condition below with all switches OFF <ul style="list-style-type: none"> <li>• INT VOLUME 1</li> <li>• INT VOLUME 5</li> <li>• INT VOLUME 6</li> </ul> <b>NOTE:</b> "INT VOLUME" in "DATA MONITOR" mode of "BCM" using CONSULT.					10.7 V	
14 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF	0 V
					Front wiper switch HI	
Any of the condition below with all switches OFF <ul style="list-style-type: none"> <li>• INT VOLUME 1</li> <li>• INT VOLUME 2</li> <li>• INT VOLUME 3</li> <li>• INT VOLUME 6</li> <li>• INT VOLUME 7</li> </ul> <b>NOTE:</b> "INT VOLUME" in "DATA MONITOR" mode of "BCM" using CONSULT.					10.7 V	

# BCM

## < ECU DIAGNOSIS INFORMATION >

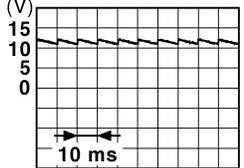
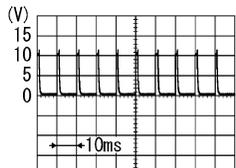
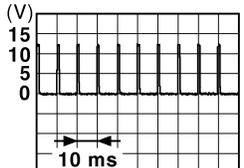
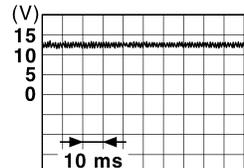
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
15 (G)	Ground	One touch unlock sensor (driver door)	Input	Driver door out- side handle grip (backside)	Touch 
				Other than the above	9 - 16 V
16 (G)	Ground	One touch unlock sensor (passenger door)	Input	Passenger door outside handle grip (backside)	Touch 
				Other than the above	9 - 16 V
17 (P)	Ground	Receiver and sensor ground	Input	Ignition switch OFF	0 V
18 (L)	Ground	Security indicator lamp control	Output	Security indica- tor lamp	ON 0 V 
				OFF	12 V
20 (R)	Ground	Detention switch	Input	Selector lever	P position (Release selec- tor button) 0 - 1.5 V Any position other than P 9 - 16 V
21 (SB)	Ground	Step lamp and foot lamp control	Output	Step lamp and foot lamp	ON 0 - 1.5 V OFF 9 - 16 V
25 (R)	Ground	Stop lamp switch 2	Input	Ignition switch OFF	9 - 16 V
26 (R)	Ground	Extended storage fuse switch	Input	Extended stor- age fuse switch	ON (Ignition switch OFF) 9 - 16 V OFF 0 V
27 (P)	Ground	Stop lamp switch 1	Input	Stop lamp switch	OFF (Brake pedal is not depressed) 0 V ON (Brake pedal is de- pressed) 9 - 16 V

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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
30 (W)	Ground	Front door lock as- sembly driver side (Unlock sensor)	Input	Driver door	 <p style="text-align: right;">JPMIA0011GB</p> <p style="text-align: center;">11.8 V</p>
					UNLOCK status (Unlock sensor switch ON)
33*2 (V)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	 <p style="text-align: right;">PKIB4956J</p>
					ON
36 (G)	Ground	Hazard switch	Input	Hazard switch	 <p style="text-align: right;">JPMIA0012GB</p> <p style="text-align: center;">1.1 V</p>
					Pressed
39 (BR)	Ground	P/N position	Input	Selector lever	 <p style="text-align: right;">JSMA1472GB</p>
					P or N position
				Except P and N positions	0 V

# BCM

## < ECU DIAGNOSIS INFORMATION >

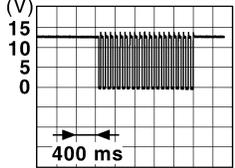
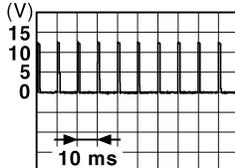
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
48 (R)	Ground	Push-button ignition switch illumination power supply	Output	Push-button ig- nition switch	OFF	0 V
					ON	9 V
<p><b>ACC NOTE:</b> The pulse cycle changes depending on illumination at push-button ignition switch.</p>						
52*3 (G)	Ground	Dongle link	Input/ Output	Ignition switch OFF	5 V	
54 (V)	Ground	Communication line	Input/ Output	Ignition switch ON		
						9.0 - 10 V
55 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch OFF	12 V	
				Ignition switch ON		
						8.7 V
59 (P)	Ground	CAN-L	Input/ Output	—	—	
60 (L)	Ground	CAN-H	Input/ Output	—	—	
61 (G)	Ground	Rear window defog- ger relay control	Output	Ignition switch ON	Rear window defogger is not activated	9 - 16 V
					Rear window defogger is activated	0 - 1.5 V
62 (R)	Ground	Starter relay control	Output	Ignition switch ON	When selector lever is in P or N position	9 - 16 V
					When selector lever is not in P or N position	0 - 0.5 V

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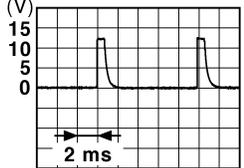
# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
64 (V)	Ground	Intelligent Key warn- ing buzzer	Output	Intelligent Key warning buzzer	0 – 0.5 V
				Sounding <b>NOTE:</b> The pulse cycle changes depending on buzzer sounds.	 <p style="text-align: right; font-size: small;">JMMIA1407GB</p>
				Not sounding	9 – 16 V
65 (B)	Ground	Outside handle lamp control	Output	Outside handle lamp	ON 0 – 0.5 V
				OFF 9 – 16 V	
66 (B)	Ground	Blower relay control	Output	Ignition switch	OFF or ACC 0 – 0.5 V
				ON 9 – 16 V	
67 (W/B)	Ground	Ignition relay (F/B) control	Output	Ignition switch	OFF or ACC 0 – 0.5 V
				ON 9 – 16 V	
68 (R)	Ground	Dimmer signal	Output	Ignition switch ON	Either of the following conditions • Lighting switch OFF • The area around the ve- hicle is bright (Shine a light on the optical sen- sor) 0 V
				The area around the vehi- cle is dark (Block the light from the optical sensor)	12 V
69 (GR)	Ground	Detention switch power supply	Output	Ignition switch	ACC or ON 9 – 16 V
				For 15 seconds after igni- tion switch OFF	0 – 0.5 V
				After 15 seconds after ig- nition switch OFF	0 – 0.5 V
70 (B)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC 9 – 16 V
				ON 0 – 0.5 V	
71 (G)	Ground	Driver door request switch	Input	Driver door re- quest switch	ON (Pressed) 0 – 1.5 V
				OFF (Not pressed) 9 – 16 V	
72 (SB)	Ground	Passenger door re- quest switch	Input	Passenger door request switch	ON (Pressed) 0 – 1.5 V
				OFF (Not pressed)	 <p style="text-align: right; font-size: small;">JPMIA0016GB</p>
					1.0 V

# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
75 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	<div style="display: flex; justify-content: space-between;"> <div style="text-align: left;"> <p>All switches OFF</p>  <p style="text-align: right; margin-right: 50px;">1.4 V</p> </div> <div style="text-align: right;"> <p>A</p><p>B</p><p>C</p><p>D</p> </div> </div>
				Front fog lamp switch ON	<div style="display: flex; justify-content: space-between;"> <div style="text-align: left;"> <p>Front fog lamp switch ON</p>  <p style="text-align: right; margin-right: 50px;">1.3 V</p> </div> <div style="text-align: right;"> <p>E</p><p>F</p> </div> </div>
				Any of the condition below with all switches OFF <ul style="list-style-type: none"> <li>• INT VOLUME 1</li> <li>• INT VOLUME 2</li> <li>• INT VOLUME 6</li> <li>• INT VOLUME 7</li> </ul> <p><b>NOTE:</b> "INT VOLUME" in "DATA MONITOR" mode of "BCM" using CONSULT.</p>	<div style="display: flex; justify-content: space-between;"> <div style="text-align: left;"> <p>Any of the condition below with all switches OFF</p> <ul style="list-style-type: none"> <li>• INT VOLUME 1</li> <li>• INT VOLUME 2</li> <li>• INT VOLUME 6</li> <li>• INT VOLUME 7</li> </ul> <p><b>NOTE:</b> "INT VOLUME" in "DATA MONITOR" mode of "BCM" using CONSULT.</p> </div> <div style="text-align: right;"> <p>G</p><p>H</p><p>I</p> </div> </div>
<div style="display: flex; justify-content: space-between;"> <div style="text-align: left;"> <p>Any of the condition below with all switches OFF</p> <ul style="list-style-type: none"> <li>• INT VOLUME 1</li> <li>• INT VOLUME 2</li> <li>• INT VOLUME 6</li> <li>• INT VOLUME 7</li> </ul> <p><b>NOTE:</b> "INT VOLUME" in "DATA MONITOR" mode of "BCM" using CONSULT.</p> </div> <div style="text-align: right;"> <p>J</p><p>K</p><p>L</p> </div> </div>					

BCS

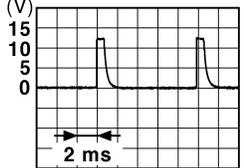
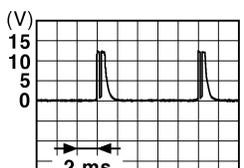
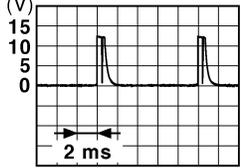
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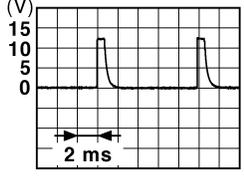
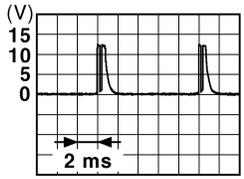
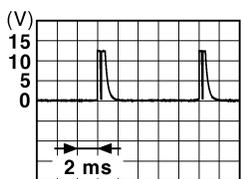
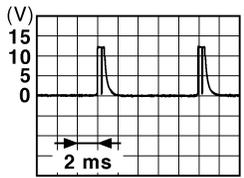
# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
76 (BG)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF <div style="text-align: right;">  <p style="text-align: right;">1.4 V</p> </div>
					Lighting switch AUTO <div style="text-align: right;">  <p style="text-align: right;">1.3 V</p> </div>
					Lighting switch 1ST <div style="text-align: right;">  <p style="text-align: right;">1.3 V</p> </div>
					Any of the condition below with all switches OFF <ul style="list-style-type: none"> <li>• INT VOLUME 1</li> <li>• INT VOLUME 5</li> <li>• INT VOLUME 6</li> </ul> <p><b>NOTE:</b> "INT VOLUME" in "DATA MONITOR" mode of "BCM" using CONSULT.</p> <div style="text-align: right;">  <p style="text-align: right;">1.3 V</p> </div>

# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
77 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">All switches OFF</div>  </div>
				Lighting switch HI	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Lighting switch HI</div>  </div>
				Lighting switch 2ND	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Lighting switch 2ND</div>  </div>
				Any of the condition below with all switches OFF <ul style="list-style-type: none"> <li>• INT VOLUME 1</li> <li>• INT VOLUME 2</li> <li>• INT VOLUME 3</li> </ul> <b>NOTE:</b> "INT VOLUME" in "DATA MONITOR" mode of "BCM" using CONSULT.	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Any of the condition below with all switches OFF • INT VOLUME 1 • INT VOLUME 2 • INT VOLUME 3 <b>NOTE:</b> "INT VOLUME" in "DATA MONITOR" mode of "BCM" using CONSULT.</div>  </div>

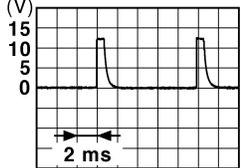
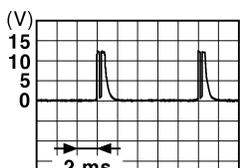
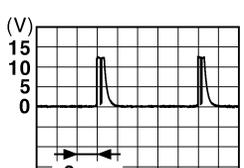
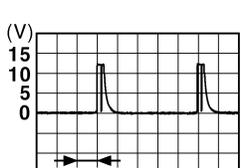
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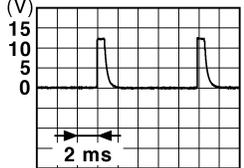
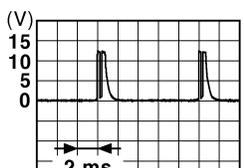
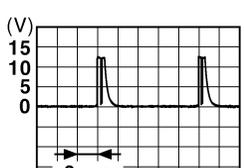
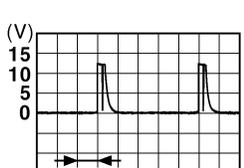
# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
78 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch	All switches OFF	 <p style="text-align: right; margin-right: 50px;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Lighting switch PASS	 <p style="text-align: right; margin-right: 50px;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p>
					Lighting switch 2ND	 <p style="text-align: right; margin-right: 50px;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch INT/ AUTO	 <p style="text-align: right; margin-right: 50px;">JPMIA0038GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch HI	 <p style="text-align: right; margin-right: 50px;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p>

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## < ECU DIAGNOSIS INFORMATION >

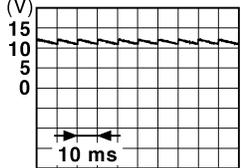
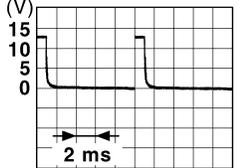
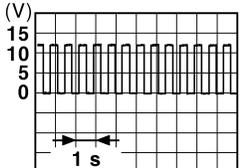
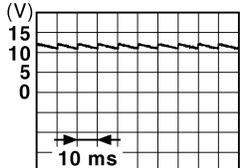
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
79 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch	All switches OFF  1.4 V	
					Turn signal switch LH  1.3 V	
					Turn signal switch RH  1.3 V	
					Front wiper switch LO  1.3 V	
					Front washer switch ON  1.3 V	
80 (L)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	ON (Pressed) OFF (Not pressed)	0 – 1.5 V 9 – 16 V

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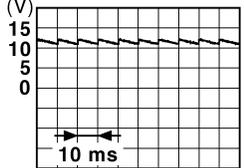
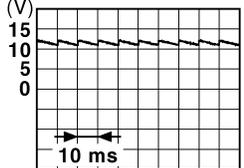
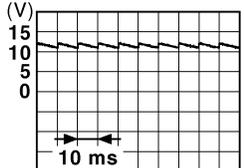
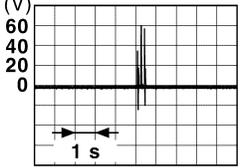
# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
82 (W)	Ground	Rear LH door switch	Input	Rear LH door switch	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8 V</p>
					OFF (When rear LH door closed)
83 (L)	Ground	Trunk lid opener request switch	Input	Trunk lid opener request switch	 <p style="text-align: right; font-size: small;">JMMIA1408GB</p>
					ON (Pressed)
85 (P)	Ground	Trunk room lamp control	Output	Trunk room lamp	<p>OFF</p> <p>9 - 16 V</p> <p>ON</p> <p>0 - 1 V</p>
					OFF (Actuator is not activated)
91 (GR)	Ground	Trunk lid open	Output	Trunk lid	<p>OFF (Actuator is not activated)</p> <p>0 V</p> <p>OPEN (Actuator is activated)</p> <p>9 - 16 V</p>
					Turn signal switch OFF
92 (W)	Ground	Turn signal RH output (Side and rear)	Output	Ignition switch ON	 <p style="text-align: right; font-size: small;">PKID0926E</p> <p style="text-align: center;">6.5 V</p> <p style="text-align: center;">(Turn signal lamp turn on: 9 - 16 V)</p>
					Turn signal switch RH
93 (G)	Ground	Rear RH door switch	Input	Rear RH door switch	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8 V</p>
					OFF (When rear RH door closed)
				ON (When rear door RH opened)	0 V

# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
94 (GR)	Ground	Passenger door switch	Input	Passenger door switch	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8 V</p>
					ON (When passenger door opened)
96 (V)	Ground	Driver door switch	Input	Driver door switch	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8 V</p>
					ON (When driver door opened)
97 (R)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8 V</p>
					ON (When trunk lid opened)
99 (GR)	Ground	Inside key antenna (Trunk room) (-)	Output	Ignition switch ON and any door is open	 <p style="text-align: right; font-size: small;">JSMIA1413GB</p>
					When Intelligent Key is in the antenna detection area

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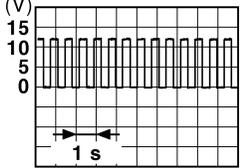
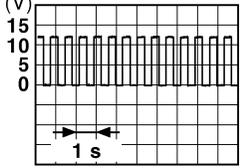
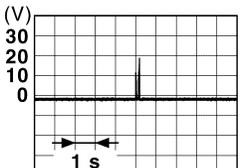
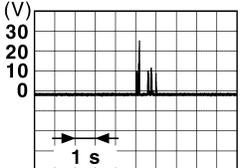
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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
100 (W)	Ground	Inside key antenna (Trunk room) (+)	Output	Ignition switch ON and any door is open	<p style="text-align: right; font-size: small;">JSMIA1348GB</p>
				When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1406GB</p>
101 (BG)	Ground	Rear bumper antenna (-)	Output	When pressing the trunk lid opener request switch with all doors are locked and ignition switch OFF	<p style="text-align: right; font-size: small;">JSMIA1504GB</p>
				When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1505GB</p>
102 (LG)	Ground	Rear bumper antenna (+)	Output	When pressing the trunk lid opener request switch with all doors are locked and ignition switch OFF	<p style="text-align: right; font-size: small;">JSMIA1504GB</p>
				When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1505GB</p>

# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
103 (Y)	Ground	Turn signal LH out- put (Side and rear)	Output	Ignition switch ON	0 V
				Turn signal switch OFF	 <p style="text-align: right; font-size: small;">PKID0926E</p> 6.5 V (Turn signal lamp turn on: 9 - 16 V)
105 (V)	Ground	Turn signal RH out- put (Front)	Output	Ignition switch ON	0 V
				Turn signal switch OFF	 <p style="text-align: right; font-size: small;">PKID0926E</p> 6.5 V (Turn signal lamp turn on: 9 - 16 V)
107 (P)	Ground	Push-button ignition switch illumination ground	Input	Ignition switch ON	0 V
111 (Y)	Ground	ACC/ON indicator lamp	Output	Ignition switch	OFF
				ACC or ON	9 - 16 V
113 (SB)	Ground	Accessory relay control	Output	Ignition switch	OFF
				ACC or ON	0 - 1.5 V
114 (LG)	Ground	Passenger door an- tenna (+)	Output	When Intelligent Key is not in the antenna detec- tion area	 <p style="text-align: right; font-size: small;">JSMIA1506GB</p>
				When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JSMIA1507GB</p>

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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
115 (V)	Ground	Passenger door antenna (-)	Output	When pressing the front door request switch (passenger side) with all doors are locked and ignition switch OFF	<p style="text-align: right; font-size: small;">JSMIA1506GB</p>
				When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1507GB</p>
116 (BR)	Ground	Inside key antenna (Console) (+)	Output	Ignition switch ON and any door is open	<p style="text-align: right; font-size: small;">JSMIA1348GB</p>
				When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1406GB</p>
117 (W/B)	Ground	Turn signal LH output (Front)	Output	Turn signal switch OFF	0 V
				Turn signal switch LH	<p style="text-align: right; font-size: small;">PKID0926E</p> <p style="text-align: center;">6.5 V (Turn signal lamp turn on: 9 - 16 V)</p>

# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
119 (L)	Ground	Remote keyless entry receiver communication	Input	Ignition switch ON	<p style="text-align: right; font-size: small;">JMMIA1409GB</p>
				When operating either button on Intelligent Key	<p style="text-align: right; font-size: small;">JMMIA1410GB</p>
121 (SB)	Ground	Driver door antenna (-)	Output	When pressing the front door request switch (driver side) with all doors are locked and ignition switch OFF	<p style="text-align: right; font-size: small;">JSMIA1506GB</p>
				When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1507GB</p>
122 (BG)	Ground	Driver door antenna (+)	Output	When pressing the front door request switch (driver side) with all doors are locked and ignition switch OFF	<p style="text-align: right; font-size: small;">JSMIA1506GB</p>
				When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1507GB</p>

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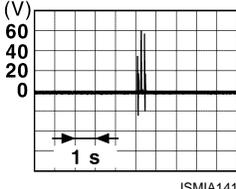
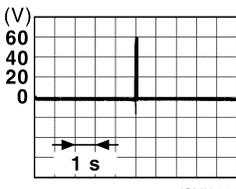
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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
123 (R)	Ground	Inside key antenna (Instrument lower) (+)	Output	Ignition switch ON and any door is open	<p style="text-align: right; font-size: small;">JSMIA1348GB</p>	
				When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1406GB</p>	
124 (G)	Ground	Inside key antenna (Instrument lower) (-)	Output	Ignition switch ON and any door is open	<p style="text-align: right; font-size: small;">JSMIA1413GB</p>	
				When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1414GB</p>	
126 (B)	Ground	NATS antenna amp.	Input/ Output	Intelligent Key: Intelligent Key battery is re- moved	Brake pedal: Depressed	<p style="text-align: right; font-size: small;">JSKIA3178ZZ</p>
127 (W)	Ground	NATS antenna amp.	Input/ Output	Intelligent Key: Intelligent Key battery is re- moved	Brake pedal: Depressed	<p style="text-align: right; font-size: small;">JSMIA1415GB</p>

# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)	
+	-	Signal name	Input/ Output				
128 (GR)	Ground	Inside key antenna (Console) (-)	Output	Ignition switch ON and any door is open	When Intelligent Key is not in the antenna detec- tion area		A
					When Intelligent Key is in the antenna detection area		B
129 (LG)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V	C
					Interior room lamp battery saver is not acti- vated. (Outputs the interior room lamp power sup- ply)	9 - 16 V	D
130 (P)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is acti- vated)	9 - 16 V	E
					Other then UNLOCK (Actu- ator is not activated)	0 V	F
131 (Y)	Ground	Battery power sup- ply	Input	Ignition switch OFF		9 - 16 V	G
132 (V)	Ground	Rear door LH/RH LOCK	Output	Rear door LH/ RH	LOCK (Actuator is activat- ed)	9 - 16 V	H
					Other then LOCK (Actua- tor is not activated)	0 V	I
133 (BR)	Ground	Rear door LH/RH UNLOCK	Output	Rear door LH/ RH	UNLOCK (Actuator is acti- vated)	9 - 16 V	J
					Other then UNLOCK (Actu- ator is not activated)	0 V	K
134 (B)	Ground	Ground	Output	Ignition switch OFF		0 V	L
135 (V)	Ground	Front doors and fuel lid LOCK	Output	Front doors and fuel lid	LOCK (Actuator is activat- ed)	9 - 16 V	N
					Other then LOCK (Actua- tor is not activated)	0 V	O
136 (V)	Ground	Interior room lamp control	Output	Map lamp and personal lamp (Door position)	When all doors are closed (Interior room lamp is turned OFF)	0 V	P
					Any doors opens (Interior room lamp is turned ON)	9 - 16 V	
137 (LG)	Ground	Driver door and fuel lid UNLOCK	Output	Driver door and fuel lid	UNLOCK (Actuator is acti- vated)	9 - 16 V	
					Other then UNLOCK (Actu- ator is not activated)	0 V	

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# BCM

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
138 (P)	Ground	Rear doors lock actuator power supply	Input	Ignition switch ON	9 – 16 V
139 (W)	Ground	Battery power supply (F/L)	Input	Ignition switch OFF	9 – 16 V
140 (BR)	Ground	Ignition switch ON	Output	Ignition switch OFF	0 V
				Within 45 second after ignition switch is turned OFF	9 – 16 V
				Ignition switch ON	
141 (R)	Ground	Power supply (BAT)	Output	Ignition switch OFF	9 – 16 V
142 (R)	Ground	Front door and fuel filler lid lock actuator power supply	Input	Ignition switch ON	9 – 16 V
143 (B)	Ground	Ground	Output	Ignition switch OFF	0 V

\*1: This harness is connected but not used.

\*2: Except for Mexico

\*3: For Canada

## Fail-safe

INFOID:000000009602874

### FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2198: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> <li>• Starter motor relay control signal</li> <li>• Starter relay status signal (CAN)</li> </ul>
B260F: ENG STATE SIG LOST	Inhibit engine cranking	When any of the following conditions are fulfilled <ul style="list-style-type: none"> <li>• Ignition switch position changes to ACC</li> <li>• Receives engine status signal (CAN)</li> </ul>
B26F1: IGN RELAY OFF	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>• Ignition switch ON signal (CAN: Transmitted from BCM): ON</li> <li>• Ignition switch ON signal (CAN: Transmitted from IPDM E/R): ON</li> </ul>
B26F2: IGN RELAY ON	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>• Ignition switch ON signal (CAN: Transmitted from BCM): OFF</li> <li>• Ignition switch ON signal (CAN: Transmitted from IPDM E/R): OFF</li> </ul>
B26F3: START CONT RLY ON	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>• Starter control relay signal (CAN: Transmitted from BCM): OFF</li> <li>• Starter control relay signal (CAN: Transmitted from IPDM E/R): OFF</li> </ul>
B26F4: START CONT RLY OFF	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> <li>• Starter control relay signal (CAN: Transmitted from BCM): ON</li> <li>• Starter control relay signal (CAN: Transmitted from IPDM E/R): ON</li> </ul>
B26F7: BCM	Inhibit engine cranking by Intelligent Key system	When room antenna and trunk room antenna functions normally

### FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

# BCM

## < ECU DIAGNOSIS INFORMATION >

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:000000009602875

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	<ul style="list-style-type: none"> <li>• U1000: CAN COMM</li> <li>• U1010: CONTROL UNIT (CAN)</li> </ul>
3	<ul style="list-style-type: none"> <li>• B2192: ID DISCORD BCM-ECM</li> <li>• B2193: CHAIN OF BCM-ECM</li> <li>• B2195: ANTI-SCANNING</li> <li>• B2196: DONGLE NG</li> <li>• B2198: NATS ANTENNA AMP</li> </ul>
4	<ul style="list-style-type: none"> <li>• B2555: STOP LAMP</li> <li>• B2556: PUSH-BTN IGN SW</li> <li>• B2557: VEHICLE SPEED</li> <li>• B2601: SHIFT POSITION</li> <li>• B2602: SHIFT POSITION</li> <li>• B2603: SHIFT POSI STATUS</li> <li>• B2604: PNP/CLUTCH SW</li> <li>• B2605: PNP/CLUTCH SW</li> <li>• B2608: STARTER RELAY</li> <li>• B260F: ENG STATE SIG LOST</li> <li>• B2614: BCM</li> <li>• B2615: BCM</li> <li>• B2616: BCM</li> <li>• B2618: BCM</li> <li>• B261A: PUSH-BTN IGN SW</li> <li>• B261E: VEHICLE TYPE</li> <li>• B26F1: IGN RELAY OFF</li> <li>• B26F2: IGN RELAY ON</li> <li>• B26F3: START CONT RLY ON</li> <li>• B26F4: START CONT RLY OFF</li> <li>• B26F6: BCM</li> <li>• B26F7: BCM</li> <li>• B26F8: BCM</li> <li>• B26FC: KEY REGISTRATION</li> <li>• B26FF: INTELLIGENT TUNER COMM ERROR</li> <li>• U0415: VEHICLE SPEED</li> </ul>

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BCS

# BCM

## < ECU DIAGNOSIS INFORMATION >

Priority	DTC
5	<ul style="list-style-type: none"> <li>• C1704: LOW PRESSURE FL</li> <li>• C1705: LOW PRESSURE FR</li> <li>• C1706: LOW PRESSURE RR</li> <li>• C1707: LOW PRESSURE RL</li> <li>• C1708: [NO - DATA] - FL</li> <li>• C1709: [NO - DATA] - FR</li> <li>• C1710: [NO - DATA] - RR</li> <li>• C1711: [NO - DATA] - RL</li> <li>• C1716: [PRESSDATA ERR] FL</li> <li>• C1717: [PRESSDATA ERR] FR</li> <li>• C1718: [PRESSDATA ERR] RR</li> <li>• C1719: [PRESSDATA ERR] RL</li> <li>• C1729: VHCL SPEED SIG ERR</li> <li>• C1730: FLAT TIRE FL</li> <li>• C1731: FLAT TIRE FR</li> <li>• C1732: FLAT TIRE RR</li> <li>• C1733: FLAT TIRE RL</li> <li>• C1734: CONTROL UNIT</li> <li>• C1761: TEMPERATURE DATA FL</li> <li>• C1762: TEMPERATURE DATA FR</li> <li>• C1763: TEMPERATURE DATA RR</li> <li>• C1764: TEMPERATURE DATA RL</li> <li>• C1769: CONFIG SETTING</li> <li>• C1770: G SENSOR FL</li> <li>• C1771: G SENSOR FR</li> <li>• C1772: G SENSOR RL</li> <li>• C1773: G SENSOR RR</li> </ul>
6	<ul style="list-style-type: none"> <li>• B2621: INSIDE ANTENNA</li> <li>• B2622: INSIDE ANTENNA</li> <li>• B2623: INSIDE ANTENNA</li> </ul>
7	<ul style="list-style-type: none"> <li>• B259A: ROOM LAMP FUSE BLOWN</li> <li>• B259B: DR TOUCH SENSOR</li> <li>• B259C: PASS TOUCH SENSOR</li> <li>• B2626: OUTSIDE ANTENNA</li> <li>• B2627: OUTSIDE ANTENNA</li> <li>• B2628: OUTSIDE ANTENNA</li> </ul>

## DTC Index

INFOID:000000009602876

### NOTE:

The details of time display are as follows.

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

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

x:Applicable

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning display	Security indi- cator lamp ON	Low pressure warning lamp ON	Reference
No DTC is detected. further testing may be required.	—	—	—	—	—	—
U1000: CAN COMM	—	—	—	—	—	<a href="#">BCS-85</a>
U1010: CONTROL UNIT (CAN)	—	—	—	—	—	<a href="#">BCS-86</a>
U0415: VEHICLE SPEED	—	—	×	—	—	<a href="#">BCS-87</a>
B2192: ID DISCORD BCM-ECM	×	—	—	×	—	<a href="#">SEC-62</a>
B2193: CHAIN OF BCM-ECM	×	—	—	×	—	<a href="#">SEC-63</a>

# BCM

## < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning display	Security indi- cator lamp ON	Low pressure warning lamp ON	Reference	
B2195: ANTI-SCANNING	×	—	—	×	—	<a href="#">SEC-64</a>	A
B2196: DONGLE NG	×	—	—	—	—	<a href="#">SEC-65</a>	B
B2198: NATS ANTENNA AMP	×	—	—	×	—	<a href="#">SEC-67</a>	C
B2555: STOP LAMP	—	×	×	—	—	<a href="#">SEC-69</a>	
B2556: PUSH-BTN IGN SW	—	×	×	—	—	<a href="#">SEC-72</a>	D
B2557: VEHICLE SPEED	×	×	×	—	—	<a href="#">SEC-74</a>	
B2562: LOW VOLTAGE	—	×	—	—	—	<a href="#">BCS-88</a>	
B259A: ROOM LAMP FUSE BLOWN	—	—	—	—	—	<a href="#">BCS-89</a>	E
B259B: DR TOUCH SENSOR	—	×	—	—	—	<a href="#">DLK-77</a>	
B259C: PASS TOUCH SENSOR	—	×	—	—	—	<a href="#">DLK-79</a>	F
B2601: SHIFT POSITION	×	×	×	—	—	<a href="#">SEC-76</a>	
B2602: SHIFT POSITION	×	×	×	—	—	<a href="#">SEC-78</a>	
B2603: SHIFT POSI STATUS	×	×	×	—	—	<a href="#">SEC-81</a>	G
B2604: PNP/CLUTCH SW	×	×	×	—	—	<a href="#">SEC-85</a>	
B2605: PNP/CLUTCH SW	×	×	×	—	—	<a href="#">SEC-88</a>	H
B2608: STARTER RELAY	×	×	×	—	—	<a href="#">SEC-90</a>	
B260F: ENG STATE SIG LOST	×	×	×	—	—	<a href="#">SEC-92</a>	
B2614: BCM	—	×	×	—	—	<a href="#">PCS-63</a>	I
B2615: BCM	—	×	×	—	—	<a href="#">PCS-66</a>	
B2616: BCM	—	×	×	—	—	<a href="#">PCS-69</a>	J
B2618: BCM	—	×	×	—	—	<a href="#">PCS-72</a>	
B261A: PUSH-BTN IGN SW	—	×	×	—	—	<a href="#">PCS-74</a>	
B2621: INSIDE ANTENNA	—	×	—	—	—	<a href="#">DLK-81</a>	K
B2622: INSIDE ANTENNA	—	×	—	—	—	<a href="#">DLK-84</a>	
B2623: INSIDE ANTENNA	—	×	—	—	—	<a href="#">DLK-87</a>	L
B2626: OUTSIDE ANTENNA	—	×	—	—	—	<a href="#">DLK-90</a>	
B2627: OUTSIDE ANTENNA	—	×	—	—	—	<a href="#">DLK-92</a>	
B2628: OUTSIDE ANTENNA	—	×	—	—	—	<a href="#">DLK-94</a>	BCS
B26F1: IGN RELAY OFF	×	×	×	—	—	<a href="#">PCS-76</a>	
B26F2: IGN RELAY ON	×	×	×	—	—	<a href="#">PCS-78</a>	
B26F3: START CONT RLY ON	×	×	×	—	—	<a href="#">SEC-94</a>	N
B26F4: START CONT RLY OFF	×	×	×	—	—	<a href="#">SEC-96</a>	
B26F6: BCM	—	×	×	—	—	<a href="#">PCS-80</a>	O
B26F7: BCM	×	×	×	—	—	<a href="#">SEC-98</a>	
B26F8: BCM	—	×	×	—	—	<a href="#">SEC-99</a>	
B26FC: KEY REGISTRATION	—	×	×	—	—	<a href="#">SEC-100</a>	P
B26FF: INTELLIGENT TUNER COMM ERROR	—	×	×	—	—	<a href="#">DLK-96</a>	
C1704: LOW PRESSURE FL	—	—	—	—	×	<a href="#">WT-34</a>	
C1705: LOW PRESSURE FR	—	—	—	—	×	<a href="#">WT-34</a>	
C1706: LOW PRESSURE RR	—	—	—	—	×	<a href="#">WT-34</a>	

# BCM

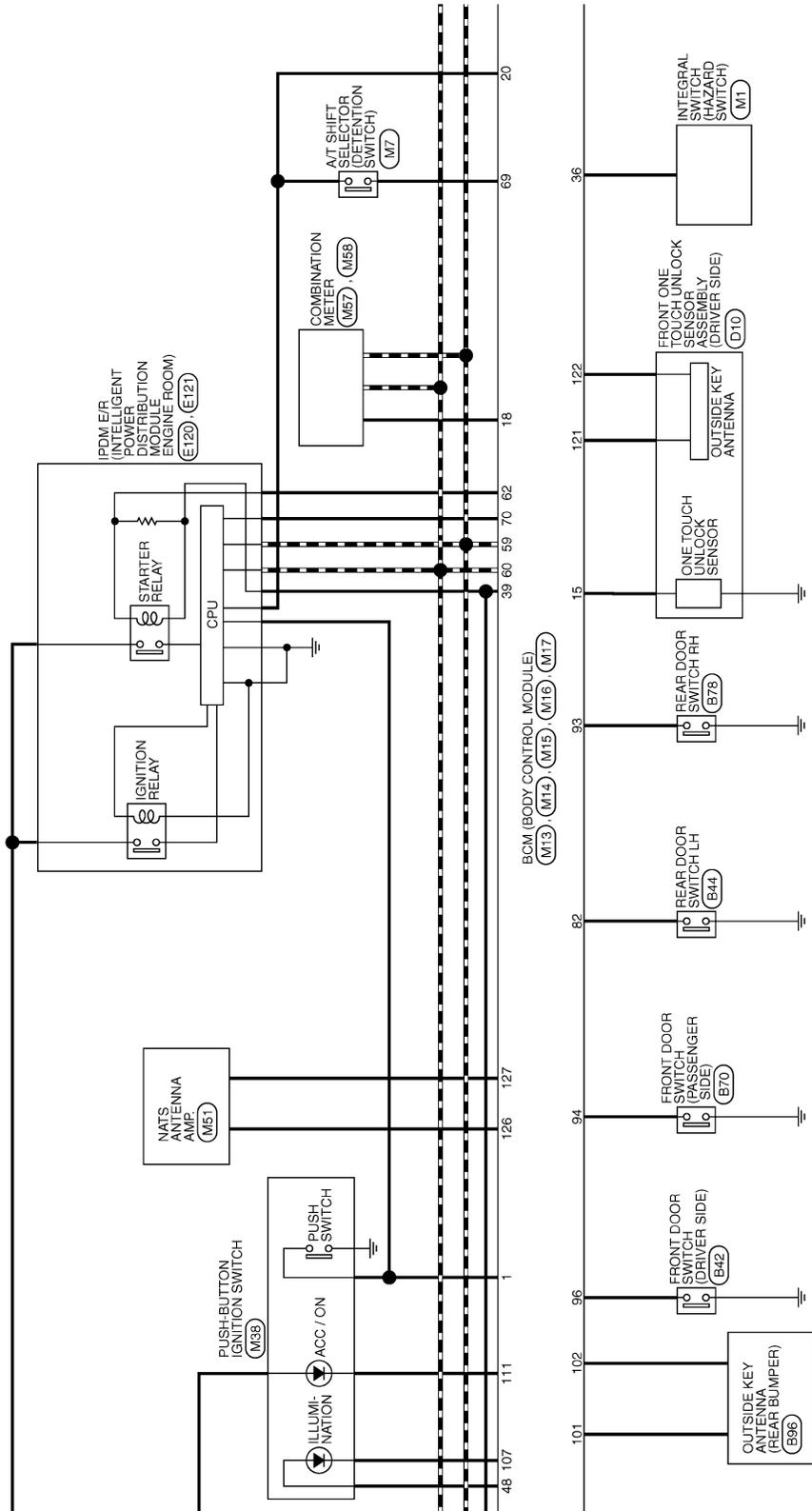
## < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning display	Security indicator lamp ON	Low pressure warning lamp ON	Reference
C1707: LOW PRESSURE RL	—	—	—	—	×	<a href="#">WT-34</a>
C1708: [NO - DATA] - FL	—	—	—	—	×	<a href="#">WT-36</a>
C1709: [NO - DATA] - FR	—	—	—	—	×	<a href="#">WT-36</a>
C1710: [NO - DATA] - RR	—	—	—	—	×	<a href="#">WT-36</a>
C1711: [NO - DATA] - RL	—	—	—	—	×	<a href="#">WT-36</a>
C1716: [PRESSDATA ERR] FL	—	—	—	—	×	<a href="#">WT-38</a>
C1717: [PRESSDATA ERR] FR	—	—	—	—	×	<a href="#">WT-38</a>
C1718: [PRESSDATA ERR] RR	—	—	—	—	×	<a href="#">WT-38</a>
C1719: [PRESSDATA ERR] RL	—	—	—	—	×	<a href="#">WT-38</a>
C1729: VHCL SPEED SIG ERR	—	—	—	—	×	<a href="#">WT-39</a>
C1730: FLAT TIRE FL	—	—	—	—	×	<a href="#">WT-40</a>
C1731: FLAT TIRE FR	—	—	—	—	×	<a href="#">WT-40</a>
C1732: FLAT TIRE RR	—	—	—	—	×	<a href="#">WT-40</a>
C1733: FLAT TIRE RL	—	—	—	—	×	<a href="#">WT-40</a>
C1734: CONTROL UNIT	—	—	—	—	×	<a href="#">WT-42</a>
C1761: TEMPERATURE DATA FL	—	—	—	—	×	<a href="#">WT-44</a>
C1762: TEMPERATURE DATA FR	—	—	—	—	×	<a href="#">WT-44</a>
C1763: TEMPERATURE DATA RR	—	—	—	—	×	<a href="#">WT-44</a>
C1764: TEMPERATURE DATA RL	—	—	—	—	×	<a href="#">WT-44</a>
C1769: CONFIG SETTING	—	—	—	—	×	<a href="#">WT-45</a>
C1770: G SENSOR FL	—	—	—	—	×	<a href="#">WT-46</a>
C1771: G SENSOR FR	—	—	—	—	×	<a href="#">WT-46</a>
C1772: G SENSOR RL	—	—	—	—	×	<a href="#">WT-46</a>
C1773: G SENSOR RR	—	—	—	—	×	<a href="#">WT-46</a>



# BCM

< WIRING DIAGRAM >

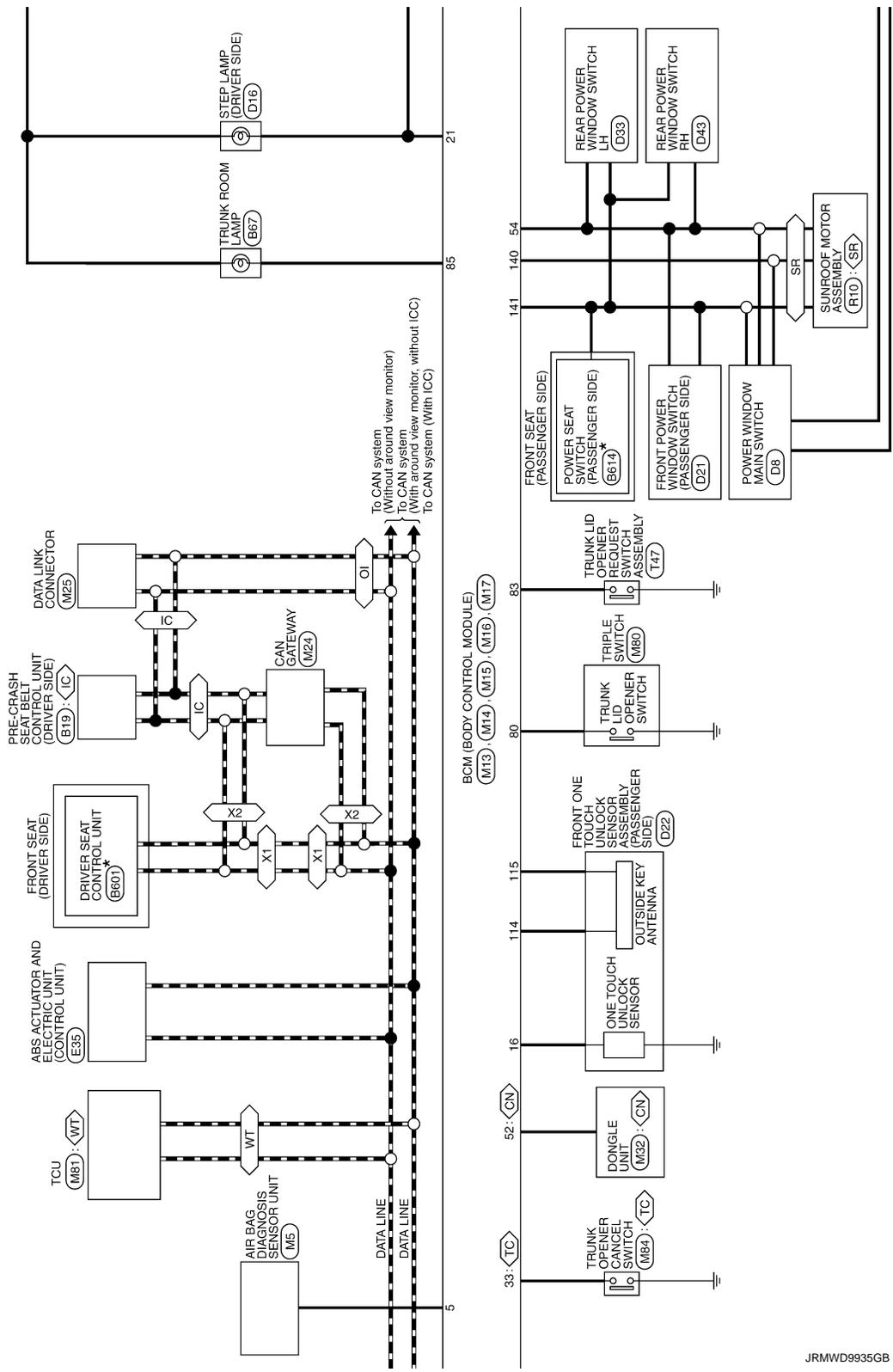


JRMWD9934GB

< WIRING DIAGRAM >

X1 : Without around view monitor without ICC  
 X2 : With around view monitor or with ICC

IC : With ICC  
 OI : Without ICC

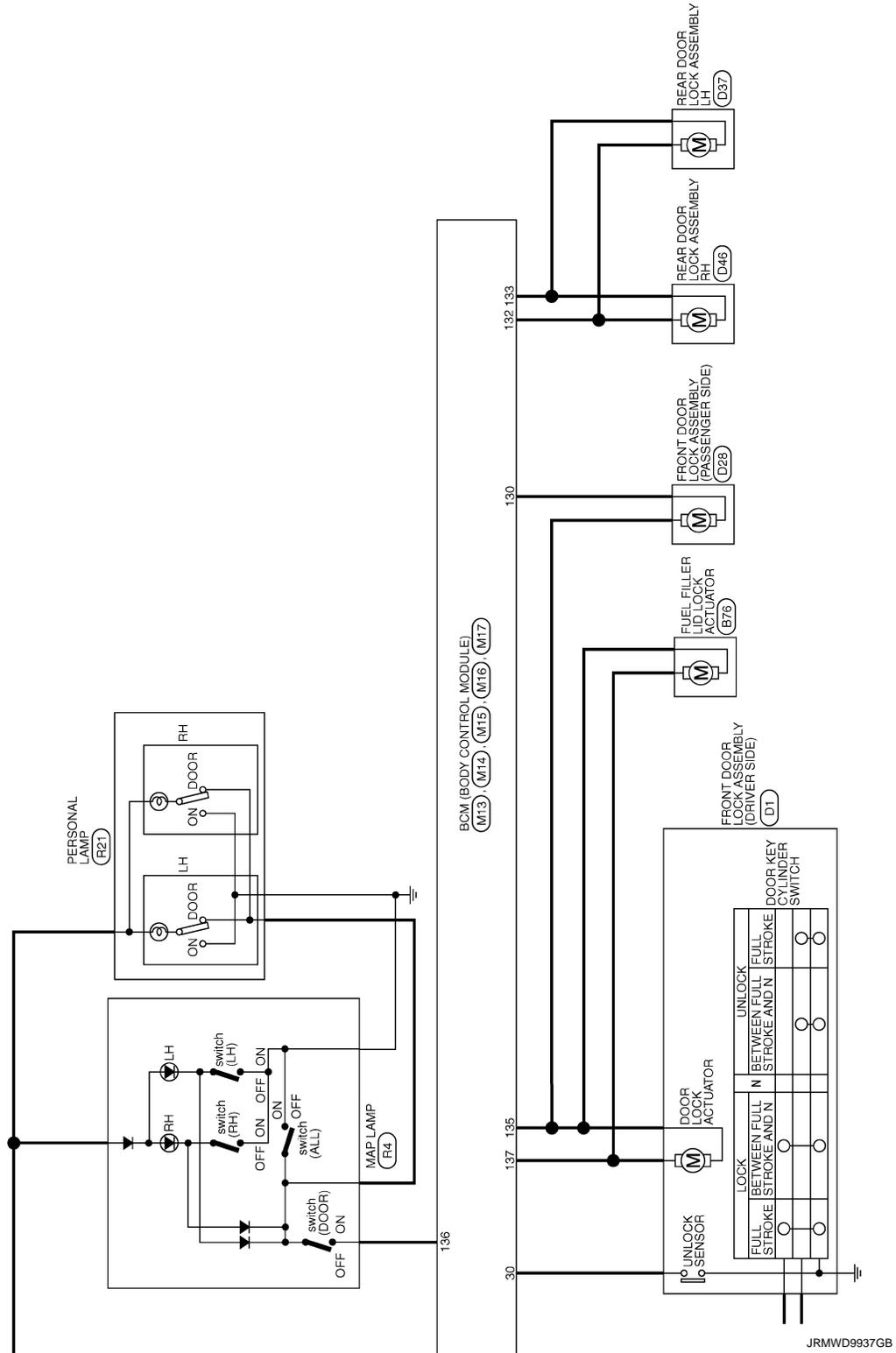


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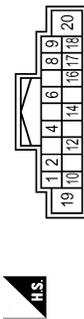
JRMWD9937GB

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**BCM (BODY CONTROL MODULE)**

Connector No.	B19
Connector Name	PRE-GRAB SEAT BELT CONTROL UNIT (DRIVER SIDE)
Connector Type	TH18EW-CS2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	SGS BATT
2	G	OUT 1
3	R	CAN LO
4	B	CAN HI
5	W	BACKL SW LH NO
6	BR	LOCAL COMM 2
7	SHIELD	SHIELD GND
8	R	SENS POWER 1
9	B	OUT 2
10	L	CAN HI
11	Y	LOCAL COMM 1
12	W	SENS GND 1
13	B	SGS GND
14	Y	MOTOR BATT
15	B	MOTOR GND

Connector No.	B22
Connector Name	REAR COMBINATION LAMP LH (BODY SIDE)
Connector Type	NS5MMF-CS



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

Connector No.	B23
Connector Name	REAR COMBINATION LAMP RH (BODY SIDE)
Connector Type	NS54MMV-CS



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

Connector No.	B42
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH



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

Connector No.	B44
Connector Name	REAR DOOR SWITCH LH
Connector Type	TH04FW-NH



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

Connector No.	B67
Connector Name	TRUNK ROOM LAMP
Connector Type	SG2FW



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

Connector No.	B70
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH



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

Connector No.	B71
Connector Name	INSIDE KEY ANTENNA (TRUNK ROOM)
Connector Type	PK02FCY



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

BCM (BODY CONTROL MODULE)

Connector No.	B78
Connector Name	FUEL FILLER LID LOCK ACTUATOR
Connector Type	M24FW-LC



H.S.

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

Connector No.	B78
Connector Name	REAR DOOR SWITCH RH
Connector Type	TH2HW-NH



H.S.

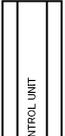
Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-

Connector No.	B89
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	PRODFGY



H.S.

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

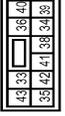


H.S.

Connector No.	B601
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH32FW-NH

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	BR	UART (TX/RX)
3	R	START SW
4	P	PULSE (RECLINER)
5	V	PULSE (TELESCOPIC)
6	GY	ADDRESS 2
7	G	IND 2
8	V	SLIDE SW (BACKWARD)
9	B	RECLINE SW (BACKWARD)
10	C	LEFT SW (COMMAND)
11	G	POWER SUPPLY (ENG/DOOR)
12	SB	CAN-L
17	LG	PULSE (SLIDE SENSOR)
18	W	PULSE (LIFTER FRONT)
19	W	PULSE (LIFTER REAR)
20	GY	PULSE (ILT SENSOR)
21	SB	ADDRESS 1
22	O	IND 1
23	W	SLIDE SW (FORWARD)
24	P	RECLINE SW (FORWARD)
25	Y	ILT SW (UPWARD)
26	GY	ILT SW (DOWNWARD)
27	L	LIFTER SW (UPWARD)
28	Y	SET SW

Connector No.	B614
Connector Name	POWER SEAT SWITCH
Connector Type	NS10FW-GS



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
33	-	-
34	-	-
35	-	-
38	-	-
39	-	-
40	-	-
41	-	-
42	-	-
43	-	-

Connector No.	D1
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	ES6FG1-RS



H.S.

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

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	R	-
7	-	-
8	SB	-
9	P	-
10	Y	-
11	GR	-
12	L	-
13	V	-
14	B	-
19	B	-

Connector No.	D5
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
Connector Type	FR04FEE



H.S.

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

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BCS

BCM (BODY CONTROL MODULE)

Connector No.	D8
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NSIBEW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	ENCODER+
2	Y	ENCODER-
3	G	DM
4	L	UP
5	B	IGN
6	BR	ENCODER.GND
7	B	ENCODER.SIG1
8	GR	ENCODER.SIG2
9	SB	COM
10	V	LOCK SW
11	Y	UNLOCK SW

Connector No.	D10
Connector Name	FRONT ONE TOUCH/UNLOCK SENSOR ASSEMBLY (DRIVER SIDE)
Connector Type	RH04EJY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	ENCODER+
2	Y	ENCODER-
3	G	DM
4	L	UP

Connector No.	D16
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TE02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	STEP LAMP
2	Y	STEP LAMP

Connector No.	D17
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TR2AMV-NH



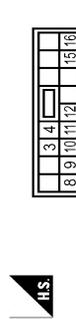
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	UP
2	R	DOWN
3	BG	ENCODER.GND
4	LG	ENCODER+
5	SB	ENCODER-
6	G	DM
7	V	LOCK SW
8	Y	UNLOCK SW
9	B	IGN
10	BR	ENCODER.GND
11	GR	ENCODER.SIG1
12	SB	ENCODER.SIG2
13	Y	COM
14	B	IGN
15	B	IGN

Connector No.	D19
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE)
Connector Type	RH04EB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	ENCODER+
2	Y	ENCODER-
3	BR	ENCODER.GND
4	GR	ENCODER.SIG1

Connector No.	D21
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	ENCODER.GND
2	V	ENCODER+
3	L	UP
4	G	DM
5	Y	LOCK SW
6	Y	UNLOCK SW
7	B	IGN
8	BR	ENCODER.GND
9	GR	ENCODER.SIG1
10	SB	ENCODER.SIG2
11	Y	COM
12	Y	COM
13	GR	ENCODER.SIG1
14	BR	ENCODER.SIG2
15	GR	COM
16	GR	COM

Connector No.	D22
Connector Name	FRONT ONE TOUCH/UNLOCK SENSOR ASSEMBLY (PASSENGER SIDE)
Connector Type	RH04EJY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	ENCODER+
2	Y	ENCODER-
3	B	IGN
4	B	IGN

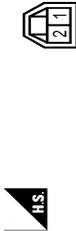
Connector No.	D28
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	ED06GY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	ENCODER.GND
2	P	ENCODER+

BCM (BODY CONTROL MODULE)

Connector No.	D39
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	18BFW



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

Connector No.	D33
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS18FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	BR	-
4	SB	ENCODER +
5	R	MOTOR UP
6	L	MOTOR DN
7	W	+B
8	B	GND
9	GR	ENCODER SIG1
10	BG	ENCODER SIG2
11	Y	COM

Connector No.	D37
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	18BFW-CS



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

Connector No.	D43
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS18FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	V	ENCODER GND
4	SB	ENCODER +
5	R	MOTOR UP
6	L	MOTOR DN
7	W	+B
8	B	GND
9	GR	ENCODER SIG1
10	BG	ENCODER SIG2
11	Y	COM

Connector No.	D46
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	18BFW-CS



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

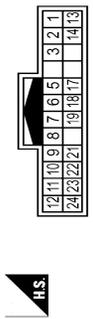
Connector No.	D56
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH2AMW-NH



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

23	W	-
24	G	-

Connector No.	D57
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH2AMW-NH



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

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**BCM (BODY CONTROL MODULE)**

Connector No.	E17
Connector Name	FRONT TURN SIGNAL LAMP LH
Connector Type	RHD2EB



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

Connector No.	E18
Connector Name	FRONT TURN SIGNAL LAMP RH
Connector Type	RHD2EB



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

Connector No.	E55
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT CONTROL UNIT
Connector Type	SAZ2MBE-SJZ4-U



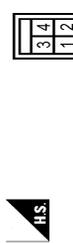
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	B	GROUND
3	G	VALVE BATTERY
4	Y	MOTOR BATTERY
5	LG	STOP LAMP SW SIGNAL [With LCC]
6	V	STOP LAMP SW SIGNAL [With ASCD]
7	GR	RR LH WHEEL SENSOR SIGNAL
8	G	RR LH WHEEL SENSOR POWER SUPPLY
9	BR	FR RH WHEEL SENSOR SIGNAL
10	GR	FR RH WHEEL SENSOR POWER SUPPLY
13	R	VACUUM SENSOR SIGNAL
14	R	CAN-L [With Gateway]
15	P	CAN-L [Without Gateway]
16	Y	RR RH WHEEL SENSOR SIGNAL
17	Y	RR RH WHEEL SENSOR POWER SUPPLY
18	SB	FR LH WHEEL SENSOR SIGNAL
19	BG	FR LH WHEEL SENSOR POWER SUPPLY
20	L	CAN-H
25	G	VACUUM SENSOR POWER SUPPLY
28	G	VDO OFF SW SIGNAL
30	R	VDO OFF SW SIGNAL
32	SHIELD	VACUUM SENSOR GROUND
34	G	IGN

Connector No.	E45
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03EBB



Terminal No.	Color Of Wire	Signal Name [Specification]
3	BG	BUZZER SIGNAL

Connector No.	E57
Connector Name	STOP LAMP SWITCH
Connector Type	MB0EW-LC



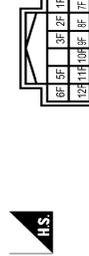
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-- [With ACSD]
1	L	-- [With LCC]
2	GR	-- [With ACSD]
2	LG	-- [With LCC]
3	BR	--
4	V	--

Connector No.	E64
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS0BFW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3E	V	--
4E	GR	--
6E	L	--

Connector No.	E65
Connector Name	FUSE BLOCK (J/B)
Connector Type	TH0BFW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
10F	W	--
11F	G	--
12F	W	--
13F	V	--
20F	BR	--
30F	P	--
40F	L	--
50F	R	--
60F	L	--
80F	L	--

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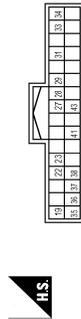
**BCM (BODY CONTROL MODULE)**

Connector No.	E120
Connector Name	IGNITION INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	MS12EM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
7	BY	
9	LG	
10	LG	
11	V	
13	Y	
14	SB	
15	Y	
17	GR	
18	L	

Connector No.	E121
Connector Name	IGNITION INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	THS2FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
19	G	
22	BG	
23	LG	
27	GR	
28	P	
29	L	
31	G	
33	SB	
34	Y	
35	G	
36	SB	

37	GR	
38	GR	
43	V	

Connector No.	F2
Connector Name	A/T ASSEMBLY
Connector Type	HRK0FG-BDY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	IGNITION POWER SUPPLY
2	P	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	L	CAN-H
4	LG	K-LINE
5	B	GROUND
6	GR	IGNITION POWER SUPPLY
7	BG	BACK-UP LAMP RELAY
8	P	CAN-L
9	GR	STARTER RELAY
10	B	GROUND

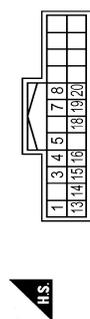
Connector No.	F100
Connector Name	TOMI TRANSMISSION CONTROL MODULE
Connector Type	SPT0FG



Terminal No.	Color Of Wire	Signal Name [Specification]
1		IGNITION POWER SUPPLY
2		BATTERY POWER SUPPLY (MEMORY BACK-UP)
3		CAN-H
4		K-LINE

5		GROUND
7		IGNITION POWER SUPPLY
9		BACK-UP LAMP RELAY
8		CAN-L
10		STARTER RELAY
		GROUND

Connector No.	M1
Connector Name	INTEGRAL SWITCH
Connector Type	THS2FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT
3	SB	AV COMM (L)
4	LG	AV COMM (H)
5	G	DOOR LOCK STATUS INDICATOR LAMP SIGNAL
7	W/B	DISK EJECT SIGNAL
8	G	HAZARD SIGNAL
13	B	GND
14	B	ILLUMINATION CONTROL SIGNAL
15	B	DISK EJECT SIGNAL GROUND
18	R	IGN
19	BR	CAMERA SWITCH SIGNAL
20	LG	AIR BAG DIAGNOSIS OFF SIGNAL

Connector No.	M5
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NIH2BY-EX



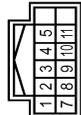
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	IGN
2	Y	DB1 (+)
3	Y/R	DB1 (-)
4	Y/B	DB2 (+)
5	Y	DB2 (-)
6	Y/R	AS1 (+)
7	Y/B	AS1 (-)
8	Y/G	AS2 (+)
9	Y	AS2 (-)
18	Y	ECZS+
19	BR	ECZS-
20	Y/R	ACT-VENT+
21	Y/B	ACT-VENT-
22	SHIELD	GND
23	V	AIRBAG W/L
24	G	GND
25	GR	AIR OFF IND
51	G	SATELLITE RH2 (+)
52	R	SATELLITE RH2 (-)
53	V	SIDE SENS LH2+
54	L	SIDE SENS LH2-
57	LG	IVCS
59	L	CAN-H
60	P	CAN-L



JRMWD9943GB

**BCM (BODY CONTROL MODULE)**

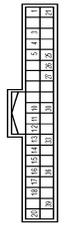
Connector No.	M17
Connector Name	A/T SHFT SELECTOR
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GP	-
2	GP	-
3	BG	-
4	B	-
5	G	-
7	R	-
8	V	-
9	B	-
10	GR	-
11	R	-

**BCM (BODY CONTROL MODULE)**

Connector No.	M13
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH48FG-NH

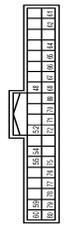


Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	PUSH SW
3	P	SEIS PWR SPLY
4	BG	OPTICAL SENSOR
5	LG	IGN RLY (F/B) CONT
10	W	COMBI SW OUTPUT 5
11	SB	COMBI SW OUTPUT 4
12	L	COMBI SW OUTPUT 3
13	G	COMBI SW OUTPUT 2
14	P	COMBI SW OUTPUT 1
15	G	ONE TOUCH UNLK SENS (DR)

16	G	ONE TOUCH UNLK SENS (PASS)
17	P	SECURITY SENSOR COM
18	L	SECURITY SENSOR COM
20	R	DEFIENT SW
21	SB	STOP LAMP SW
25	R	STOP LAMP SWZ
26	R	EXTENDED STORAGE FLUSE SW
27	P	STOP LAMP SW
30	W	DR DOOR UNLK SENS
33	V	TR LID OP CANCEL SW
36	G	HAZARD SW
39	BR	P/R POSITION

**BCM (BODY CONTROL MODULE)**

Connector No.	M14
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH48FB-NH

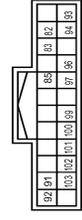


Terminal No.	Color Of Wire	Signal Name [Specification]
42	R	PUSH-BTN IGN SW ILL PWR
43	G	TRIPLE UNLK
44	V	COMBI LNK
55	R	RAIN SENSOR
59	P	CAN-L
60	L	CAN-H
61	G	REAR WINDOW DEF RLY CONT
62	R	STARTER RLY CONT
64	V	I-KEY WARN BUZZER
65	B	OUTS HD LAMP CONT
66	B	BLOWER FAN RLY CONT
67	W/B	IGN RLY (F/B) CONT
68	R	IGN RLY (F/B) CONT
69	GR	A/T SHFT SELECT PWR SPLY
70	GR	IGN RLY (F/B) CONT
71	G	IGN RLY (F/B) CONT
72	SB	PASS DOOR BEG SW
75	BR	COMBI SW INPUT 5
76	BG	COMBI SW INPUT 4
77	V	COMBI SW INPUT 3
78	Y	COMBI SW INPUT 2
79	LG	COMBI SW INPUT 1

20	L	TR LID OPNR SW
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**BCM (BODY CONTROL MODULE)**

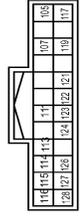
Connector No.	M15
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FG-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
82	W	REAR LH DOOR SW
83	L	TR LID OPEN BEG SW
85	P	TR ROOM LAMP CONT
91	GR	TRUNK LID OPEN
92	W	TURM SIG RH OUTPUT (SIDE REAR)
93	G	REAR RH DOOR SW
94	GR	PASSENGER DOOR SW
96	V	DRIVER DOOR SW
97	R	TR ROOM LAMP SW
99	GR	INSIDE KEY ANT (TRUNK) -
100	W	INSIDE KEY ANT (TRUNK) +
101	W	REAR BTRN IGN SW ILL GND
102	LG	REAR BTRN ANT -
103	Y	TURM SIG LH OUTPUT (SIDE REAR)

**BCM (BODY CONTROL MODULE)**

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH

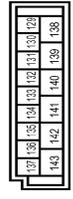


Terminal No.	Color Of Wire	Signal Name [Specification]
105	V	TURM SIG RH OUTPUT (FRONT)
107	P	PUSH-BTN IGN SW ILL GND
111	Y	ACC: ON IND

113	SB	ACC REL AY CONT
114	W	PASSENGER DOOR ANT +
115	V	PASSENGER DOOR ANT -
116	BR	INSIDE KEY ANT (CONSOLE) +
117	W/B	TURM SIG LH OUTPUT (FRONT)
119	L	RVLS ENT RECEVY COMM
121	SB	DRIVER DOOR ANT +
122	BG	DRIVER DOOR ANT -
123	R	INSIDE KEY ANT (INSTRUMENT LOWER) +
124	G	INSIDE KEY ANT (INSTRUMENT LOWER) -
126	B	HATS ANT AMP
127	W	HATS ANT AMP
128	GR	INSIDE KEY ANT (CONSOLE) -

**BCM (BODY CONTROL MODULE)**

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FH48-SA



Terminal No.	Color Of Wire	Signal Name [Specification]
130	LG	INT ROOM LAMP PWR SPLY
131	P	PASS DOOR UNLK OUTPUT
131	Y	BAT (FUSE)
132	V	RR, RL DOOR LK OUTPUT
133	BR	RR, RL DOOR UNLK OUTPUT
134	B	GND
135	V	FRONT DOOR, FL LK OUTPUT
137	V	FRONT DOOR, FL LK UNLK OUTPUT
138	P	REAR DOORS ACT PWR SPLY
139	W	BAT (F7/3)
140	BR	IGN ON
141	R	PWR SPLY (BAT)
142	R	FRONT DOORS, LID ACT PWR SPLY
143	B	GND

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**BCM (BODY CONTROL MODULE)**

Connector No.	M24
Connector Name	CAN GATEWAY
Connector Type	TH18FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	W	CAN-EV
3	B	CM24
4	B	GND
5	L	CAN-H
6	L	CAN-L
7	P	IGN
8	R	IGN
9	R	IGN
10	R	CANZ-L
11	B	GND
12	R	CANZ-L

Connector No.	M25
Connector Name	DATA LINK CONNECTOR
Connector Type	ED18FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	AV COMM(L)
4	B	EARTH
5	B	EARTH
6	Y	IGN SW
7	Y	IGN SW
8	W	IGN SW
11	LG	AV COMM(H)
12	R	CAN-L
13	L	CAN-H
14	P	CAN-L

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

Connector No.	M32
Connector Name	DONGLE UNIT
Connector Type	TH04FW-NH



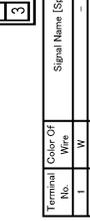
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	DATA&SV SUPPLY
4	B	GND

Connector No.	M5B
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH08FW-NH



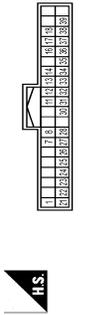
Terminal No.	Color Of Wire	Signal Name [Specification]
3	W	-
4	B	-
5	B	-
6	P	-
7	Y	-
8	BR	-

Connector No.	M5I
Connector Name	NATS ANTENNA AMP
Connector Type	NH03FW



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

Connector No.	M57
Connector Name	COMBINATION METER
Connector Type	TH146FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	G	SECURITY SIGNAL
3	G	SECURITY SIGNAL
4	W	SECURITY SIGNAL
11	W	ALTERNATOR SIGNAL
12	G	LED HEADLAMP (RH) WARNING SIGNAL
13	BR	LED HEADLAMP (LH) WARNING SIGNAL
14	V	AGC POWER SUPPLY
16	V	AIR BAG SIGNAL
17	BR	METER CONTROL SWITCH GROUND
18	SB	TRIP RESET SIGNAL
21	B	STEERING SWITCH SIGNAL GROUND
22	P	STEERING SWITCH SIGNAL A
23	W/B	STEERING SWITCH SIGNAL B
24	L	WASHER LEVEL SWITCH SIGNAL
25	LG	ENGINE FLUID LEVEL SWITCH SIGNAL
26	V	WASHER LEVEL SWITCH SIGNAL
27	G	PASSENGER SEAT BELT WARNING SIGNAL
28	W	SEAT BELT BUCKLE SWITCH SIGNAL (OVERSEAS)
30	SB	MANUAL MODE SIGNAL
31	G	NON-MANUAL MODE SIGNAL
32	BG	MANUAL MODE SHIFT UP SIGNAL
33	GR	MANUAL MODE SHIFT DOWN SIGNAL
34	BG	PADDLE SHIFTER UP SIGNAL
35	G	PADDLE SHIFTER DOWN SIGNAL
36	V	ILLUMINATION CONTROL SWITCH SIGNAL (L)
37	GR	ILLUMINATION CONTROL SWITCH SIGNAL (R)
38	R	VEHICLE SPEED SIGNAL (8-PULSE)
39	L	VEHICLE SPEED SIGNAL (2-PULSE)

BCM (BODY CONTROL MODULE)

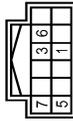
Connector No.	M85
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
41	B	CAN-H
42	B	CAN-L
43	B	ILLUMINATION CONTROL SIGNAL
44	Y	FUEL LEVEL SENSOR GROUND
45	W	BATTERY POWER SUPPLY
46	R	IGNITION SIGNAL
47	LG	AV COMMUNICATION SIGNAL (H)
48	SB	AV COMMUNICATION SIGNAL (L)
49	BR	FUEL LEVEL SENSOR SIGNAL
50	B	GROUND

Connector No.	M86
Connector Name	TRIPLE SWITCH
Connector Type	TH12FB-NH



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
3	R	-
5	B	-
6	B	-
7	B	-

Connector No.	M81
Connector Name	TCU
Connector Type	TH40FW-NH



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BAT
2	B	IGN
3	V	ACC
4	R	IGN
5	SB	ACC OUTPUT
6	SB	-
7	B	IGN
9	L	CAN-H
10	P	CAN-L
14	B	AUDIO TYPE RECOGNITION SIGNAL
18	L	MICROPHONE VCC
19	G	MICROPHONE SIGNAL
20	SHIELD	SHIELD
21	C	MICROPHONE VCC
22	SHIELD	SHIELD SIGNAL
34	G	SOS CALL SWITCH SIGNAL
35	BR	SOS SWITCH LED SIGNAL

Connector No.	M84
Connector Name	TRUNK LID OPERIER CANCEL SWITCH
Connector Type	SG2FW



H.S.

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

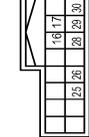
Connector No.	M81
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	SENSOR POWER
2	BG	SENSOR OUTPUT
3	P	SENSOR GND

Connector No.	M100
Connector Name	DISPLAY CONTROL UNIT
Connector Type	TH24FH-NH



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
16	SB	AV COMM (L)
17	P	CAN-L
19	R	DIMMER SIGNAL
21	R	REVERSE SIGNAL
22	B	SR
24	SB	SR
26	BR	CAMERA SWITCH SIGNAL
28	LG	AV COMM (H)
29	L	CAN-H
30	R	IGN
31	R	VEHICLE SPEED SIGNAL (8-PULSE)

Terminal No.	Color Of Wire	Signal Name [Specification]
33	SB	ACC
34	Y	BAT

Connector No.	M109
Connector Name	INSIDE KEY ANTENNA/INSTRUMENT LOWER
Connector Type	RK02FCY



H.S.

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

Connector No.	M113
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	AC03AFB



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	+12V
2	L	SIGNAL
3	P	GND

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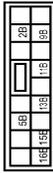
BCM (BODY CONTROL MODULE)

Connector No.	M114
Connector Name	INSIDE KEY ANTENNA (COUSOLE)
Connector Type	FRAGECY



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	ANT+
2	GR	ANT-



HS

Connector No.	M132
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS1BFW-CS

Terminal No.	Color Of Wire	Signal Name [Specification]
11B	LG	-
13B	P	-
15B	Y	-
18B	Y	-
2B	B	-
5B	R	-
9B	Y	-

Connector No.	M133
Connector Name	FUSE BLOCK (J/B)
Connector Type	TH40FW-NH



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
10C	Y	-
13C	V	-
14C	L	-
14C	Y	-
15C	R	-
16C	R	-
17C	L	-
18C	BG	- [Without DRPC]
18C	P	- [With DRPC]
19C	B	-
20C	W	-
21C	L	-
22C	L	-
23C	L	-
24C	G	-
27C	SB	-
28C	W	-
29C	W	-
30C	R	-
31C	W	-
32C	R	-
33C	B	-
34C	W/B	-
35C	SB	-
36C	R	-
37C	W	-
38C	SB	-
39C	P	-
40C	P	-
46C	G	-
4C	P	-
5C	P	-
8C	G	-
7C	G	-

Connector No.	V
Connector Name	-
Connector Type	-



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	L	-
3	BR	-
6	B	-
7	SB	-
8	BC	-

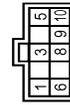
Connector No.	RS
Connector Name	RAIN SENSOR
Connector Type	A4B30FF



HS

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

Connector No.	R10
Connector Name	SUNROOF MOTOR ASSEMBLY
Connector Type	YEAD0GY



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GNP
2	D	IG
3	D	TILT DOWN SLIDE OPEN
6	W	PWR SW V/BA7
8	GR	VEHICLE SPEED
9	V	SUNROOF SLIDE OPEN (INTELLIGENT KEV)
10	SB	TILT UP/SLIDE CLOSE

Connector No.	R21
Connector Name	PERSONAL LAMP
Connector Type	TH0FW-NH



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
2	O	-
3	BR	-
4	B/W	-

BCM (BODY CONTROL MODULE)

Connector No.	R23
Connector Name	VANITY MIRROR LAMP (PASSENGER SIDE)
Connector Type	MCA02FW



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

Connector No.	R24
Connector Name	VANITY MIRROR LAMP (DRIVER SIDE)
Connector Type	MCA02FW



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

Connector No.	T57
Connector Name	TRUNK LID OPENER REQUEST SWITCH ASSEMBLY
Connector Type	TB04MW-NH



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

Connector No.	T53
Connector Name	TRUNK LID LOCK ASSEMBLY
Connector Type	TB03FW-LC



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

JRMWD9948GB

# ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

< BASIC INSPECTION >

## BASIC INSPECTION

### ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

#### Description

INFOID:000000009725389

#### BEFORE REPLACEMENT

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

#### NOTE:

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

#### AFTER REPLACEMENT

#### CAUTION:

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

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

#### NOTE:

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

#### Work Procedure

INFOID:000000009725390

#### 1. SAVING VEHICLE SPECIFICATION

##### ⓂCONSULT Configuration

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to [BCS-82. "Description"](#).

#### NOTE:

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

>> GO TO 2.

#### 2. REPLACE BCM

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

>> GO TO 3.

#### 3. WRITING VEHICLE SPECIFICATION

##### ⓂCONSULT Configuration

Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to [BCS-82. "Work Procedure"](#).

>> GO TO 4.

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

Perform BCM initialization. (NATS)

>> GO TO 5.

#### 5. INITIALIZE TPMS (IF EQUIPPED)

Perform TPMS initialization. Refer to [WT-32. "Work Procedure"](#).

>> WORK END

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BCS

# CONFIGURATION (BCM)

< BASIC INSPECTION >

## CONFIGURATION (BCM)

### Description

INFOID:000000009725387

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

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

#### NOTE:

Manual setting item: Items which need selection by vehicle specifications

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

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

#### CAUTION:

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

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

### Work Procedure

INFOID:000000009725388

#### 1. WRITING MODE SELECTION

ⓅCONSULT Configuration

Select "CONFIGURATION" of BCM.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

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

ⓅCONSULT Configuration

Perform "WRITE CONFIGURATION - Config file".

>> WORK END

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

ⓅCONSULT Configuration

1. Select "WRITE CONFIGURATION - Manual selection".
2. Identify the correct model and configuration list. Refer to [BCS-83. "Configuration list"](#).
3. Confirm and/or change setting value for each item.

#### CAUTION:

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

#### NOTE:

If items are not displayed, touch "SETTING". Refer to [BCS-83. "Configuration list"](#) for written items and setting value.

4. Select "SETTING".

#### CAUTION:

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

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

# CONFIGURATION (BCM)

< BASIC INSPECTION >

>> GO TO 4.

## 4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> WORK END

### Configuration list

INFOID:000000009602886

#### CAUTION:

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

SETTING ITEM		NOTE
Items	Setting value	
TR CANCEL SW	WITH ⇔ WITHOUT	<ul style="list-style-type: none"> <li>• WITH: With trunk lid opener cancel switch</li> <li>• WITHOUT: Without trunk lid opener cancel switch</li> </ul>
RAIN SENSOR CONFIG	WITH ⇔ WITHOUT	<ul style="list-style-type: none"> <li>• WITH: With rain sensor</li> <li>• WITHOUT: Without rain sensor</li> </ul>
DONGLE	WITH ⇔ WITHOUT	<ul style="list-style-type: none"> <li>• WITH: For Canada models</li> <li>• WITHOUT: Except for Canada models</li> </ul>
CAN ERR DETECT HPCM or VCM	WITHOUT	—
CAN ERR DETECT TELEMATICS	WITH ⇔ WITHOUT	<ul style="list-style-type: none"> <li>• WITH: With telematics system</li> <li>• WITHOUT: Without telematics system</li> </ul>
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 FREQUENCY TYPE	MODE2	—
REMOTE KEYLESS ENTRY RECEIVER	MODE1	—
Key Fob Type	LCK/UNLCK/TRNK/ALRM	—
ONE TOUCH UNLOCK SENSOR	MODE1	—
INTELLIGENT KEY TYPE	MODE2	—
ALT TYPE	GASOLINE	—
TRANSMISSION	AT with ABS	—
AUTO CRANK TIME	MODE1	—

⇔: Items which confirm vehicle specifications

BCS

# SHIPPING MODE CANCEL OPERATION

< BASIC INSPECTION >

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## SHIPPING MODE CANCEL OPERATION

### Work Procedure

INFOID:000000009602887

#### 1. SHIPPING MODE CANCEL OPERATION

---

1. Turn ignition switch OFF.
2. Push in (switch on) the extended storage fuse switch. Refer to [PG-101, "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

# U1000 CAN COMM

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM

#### DTC Description

INFOID:000000009602890

#### Desxription

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-44. "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart"](#).

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition
U1000	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

—

#### Diagnosis Procedure

INFOID:000000009602891

#### 1.PERFORM SELF DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check "Self Diagnostic Result" of BCM.

#### Is DTC "U1000" displayed?

- YES >> Refer to [LAN-26. "Trouble Diagnosis Flow Chart"](#).  
NO-1 >> To check malfunction symptom before repair: Refer to [GI-43. "Intermittent Incident"](#).  
NO-2 >> Confirmation after repair: INSPECTION END

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## U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

### U1010 CONTROL UNIT (CAN)

#### DTC Description

INFOID:000000009602892

#### DTC DETECTION LOGIC

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

#### POSSIBLE CAUSE

BCM

FAIL-SAFE

—

#### Diagnosis Procedure

INFOID:000000009602893

#### 1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

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

# U0415 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

## U0415 VEHICLE SPEED

### DTC Description

INFOID:000000009602894

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition
U0415	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

—

### 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-87, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-43, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

### Diagnosis Procedure

INFOID:000000009602895

#### 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-57, "DTC Index"](#).

#### Is any DTC detected?

YES >> Repair or replace the malfunctioning part.

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

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BCS

# B2562 LOW VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

## B2562 LOW VOLTAGE

### DTC Description

INFOID:000000009602896

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition
B2562	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-88. "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-43. "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

### Diagnosis Procedure

INFOID:000000009602897

#### 1. CHECK POWER SUPPLY CIRCUIT

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

#### Is the circuit normal?

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

NO >> Repair the malfunctioning part.

# B259A ROOM LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

## B259A ROOM LAMP FUSE

### DTC Description

INFOID:000000009602898

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition
B259A	ROOM LAMP FUSE BLOWN (Room lamp fuse blown)	When BCM detects that power supply voltage is supplied to fusible link battery power, but not to BCM battery fuse for 2 minutes when ignition switch is ON.

### POSSIBLE CAUSE

- Fuse
- Harness or connector (power supply circuit is open or shorted)
- Harness or connector (interior room lamp power supply circuit is shorted)
- 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, after the ignition switch has been turned ON for 2 minutes or more.

#### Is any DTC detected?

YES >> Refer to [BCS-89, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-43, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

### Diagnosis Procedure

INFOID:000000009602899

#### 1. CHECK FUSE

1. Turn ignition switch OFF.
2. Check that the following fuse is not blown.

Signal name	Fuse No.
Battery power supply	20

#### Is the fuse fusing?

YES >> GO TO 3.

NO >> GO TO 2.

#### 2. CHECK BCM FUSE CIRCUIT

1. Disconnect BCM connectors.
2. Check voltage between BCM harness connector and ground.

(+)		(-)	Voltage
BCM			
Connector	Terminal		
M17	131	Ground	9 – 16 V

#### Is the measurement value normal?

YES >> Check intermittent incident. Refer to [GI-43, "Intermittent Incident"](#).

NO >> Repair harness or connector.

#### 3. CHECK BCM FUSE CIRCUIT FOR SHORT TO GROUND

1. Disconnect BCM connectors.

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BCS

## B259A ROOM LAMP FUSE

### < DTC/CIRCUIT DIAGNOSIS >

2. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	131		Not existed

#### Does continuity exist?

YES >> Repair harness or connector.

NO >> GO TO 4.

### 4. CHECK INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT FOR SHORT TO GROUND

1. Disconnect following connectors.

- Map lamp
- Personal lamp
- Vanity mirror lamp (both sides)
- Outside handle lamp (both sides)
- Step lamp (ALL)
- Trunk room lamp

2. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	129		Not existed

#### Does continuity exist?

YES >> Repair harness or connector.

NO >> Check interior room lamp. If result is normal, replace BCM. Refer to [BCS-98. "Removal and Installation"](#).

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## POWER SUPPLY AND GROUND CIRCUIT

### Diagnosis Procedure

INFOID:000000009602900

#### 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	20
	M

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	Ground	9 – 16 V
M17	131		
	139		

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		
M17	134		Existed
	143		

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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BCS

# COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## COMBINATION SWITCH OUTPUT CIRCUIT

### Diagnosis Procedure

INFOID:000000009602901

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

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

System	BCM		Combination switch		Continuity
	Connector	Terminal	Connector	Terminal	
OUTPUT 1	M13	14	M27	12	Existed
OUTPUT 2		13		14	
OUTPUT 3		12		5	
OUTPUT 4		11		2	
OUTPUT 5		10		8	

Does continuity exist?

- YES >> GO TO 2.  
 NO >> Repair harnesses or connectors.

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

Check for continuity between BCM harness connector and ground.

System	BCM		Ground	Continuity
	Connector	Terminal		
OUTPUT 1	M13	14	Ground	Not existed
OUTPUT 2		13		
OUTPUT 3		12		
OUTPUT 4		11		
OUTPUT 5		10		

Does continuity exist?

- YES >> Repair harnesses or connectors.  
 NO >> GO TO 3.

#### 3. CHECK COMBINATION SWITCH INTERNAL CIRCUIT

1. Connect BCM 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.)
	BCM			
	Connector	Terminal		
OUTPUT 1	M27	12	Ground	Refer to <a href="#">BCS-35</a> , "Reference Value".
OUTPUT 2		14		
OUTPUT 3		5		
OUTPUT 4		2		
OUTPUT 5		8		

Is the measurement value normal?

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

# COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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NO >> Replace combination switch. Refer to [BCS-99, "Removal and Installation"](#).

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# COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## COMBINATION SWITCH INPUT CIRCUIT

### Diagnosis Procedure

INFOID:000000009602902

#### 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	M14	79	M27	11	Existed
INPUT 2		78		9	
INPUT 3		77		7	
INPUT 4		76		10	
INPUT 5		75		13	

Does continuity exist?

- YES >> GO TO 2.  
 NO >> Repair harnesses or connectors.

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

Check for continuity between BCM harness connector and ground.

System	BCM		Ground	Continuity
	Connector	Terminal		
INPUT 1	M14	79	Ground	Not existed
INPUT 2		78		
INPUT 3		77		
INPUT 4		76		
INPUT 5		75		

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	M14	79	Ground	Refer to <a href="#">BCS-35, "Reference Value"</a> .
INPUT 2		78		
INPUT 3		77		
INPUT 4		76		
INPUT 5		75		

Is the measurement value normal?

- Yes >> GO TO 4.  
 No >> Replace BCM. Refer to [BCS-98, "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	M14	79	Ground	Refer to <a href="#">BCS-35, "Reference Value"</a> .
INPUT 2		78		
INPUT 3		77		
INPUT 4		76		
INPUT 5		75		

### Is the measurement value normal?

- Yes >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).
- No >> Replace combination switch. Refer to [BCS-99, "Removal and Installation"](#).

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BCS

# COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### COMBINATION SWITCH SYSTEM SYMPTOMS

#### Symptom Table

INFOID:000000009603021

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	INT VOLUME	TURN SIGNAL R	TURN SIGNAL L	TAIL LAMP SW	HI BEAM SW	HEAD LAMP SW 1	HEAD LAMP SW 2	PASSING SW	AUTO LIGHT SW	FR FOG SW	
	x	x			x	x								A
x			x						x		x			B
				x				x		x				C
				x			x					x		D
				x									x	E
x				x										F
		x		x										G
	x		x									x		H
						x				x	x		x	I
					x		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 INPUT 1 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to <a href="#">BCS-94, "Diagnosis Procedure"</a> .
B	Combination switch INPUT 2 circuit	
C	Combination switch INPUT 3 circuit	
D	Combination switch INPUT 4 circuit	
E	Combination switch INPUT 5 circuit	
F	Combination switch OUTPUT 1 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to <a href="#">BCS-92, "Diagnosis Procedure"</a> .
G	Combination switch OUTPUT 2 circuit	
H	Combination switch OUTPUT 3 circuit	
I	Combination switch OUTPUT 4 circuit	
J	Combination switch OUTPUT 5 circuit	
K	BCM	Replace BCM. Refer to <a href="#">BCS-98, "Removal and Installation"</a> .
L	Combination switch	Replace combination switch. Refer to <a href="#">BCS-99, "Removal and Installation"</a> .
M	Connector and harness	Check intermittent incident. Refer to <a href="#">GI-43, "Intermittent Incident"</a> .

# NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

## NORMAL OPERATING CONDITION

### Description

INFOID:000000009603022

#### 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-84. "Work Procedure"](#).

#### NOTE:

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

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

BCS

# BCM

< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

### BCM

#### Removal and Installation

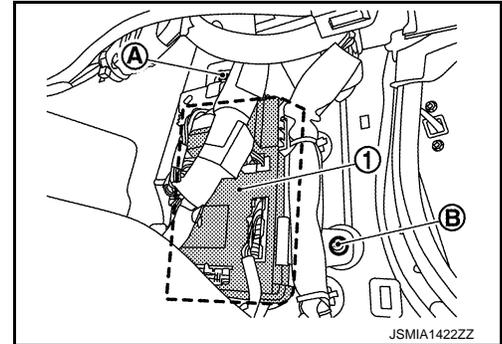
INFOID:000000009603023

#### NOTE:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to [BCS-82, "Description"](#).

#### REMOVAL

1. Disconnect the battery cable from the negative terminal.
2. Remove the dash side finisher RH. Refer to [INT-28, "DASH SIDE FINISHER : Removal and Installation"](#).
3. Remove the BCM mounting nut (A) and mounting bolt (B).
4. Disconnect the harness connectors from the BCM (1).



#### INSTALLATION

Install in the reverse order of removal.

#### CAUTION:

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

#### NOTE:

Be sure to perform the system initialization (NATS and TPMS) when replacing BCM. Refer to [BCS-82, "Work Procedure"](#).

# COMBINATION SWITCH

< REMOVAL AND INSTALLATION >

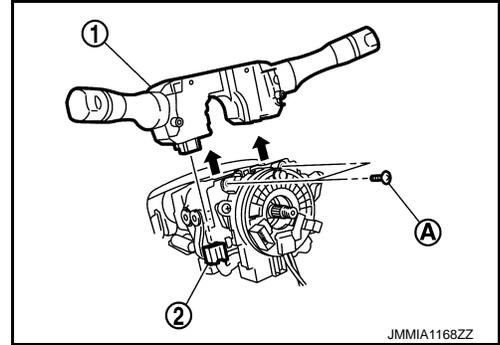
## COMBINATION SWITCH

### Removal and Installation

INFOID:000000009603024

#### REMOVAL

1. Remove steering column cover. Refer to [IP-12. "Removal and Installation"](#).
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.

A  
B  
C  
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K  
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O  
P

BCS