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# PRECAUTION

## PRECAUTIONS

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

INFOID:000000011154105

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

**WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

**WARNING:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.

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## COMPONENT PARTS

< SYSTEM DESCRIPTION >

[BCM]

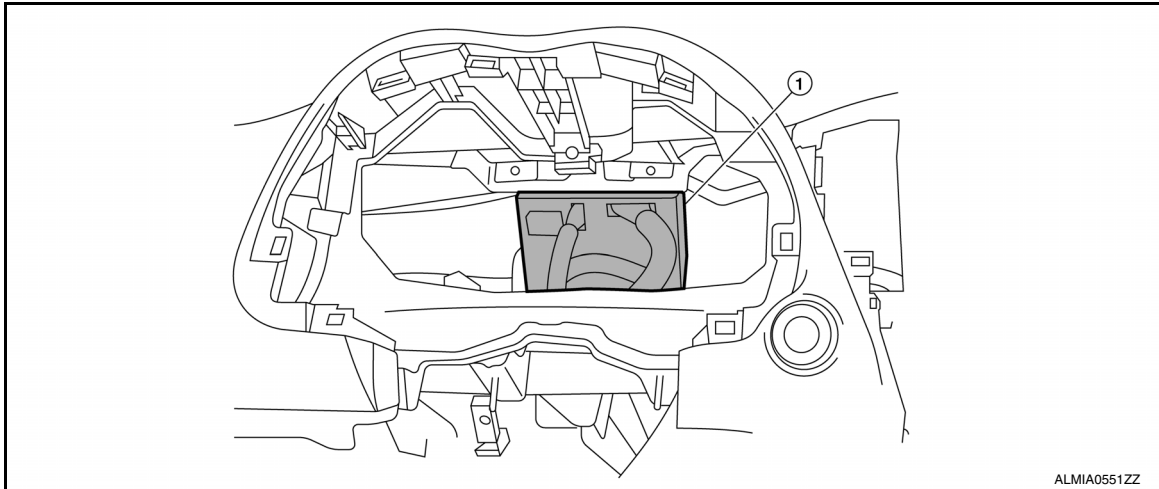
### SYSTEM DESCRIPTION

COMPONENT PARTS

BODY CONTROL SYSTEM

BODY CONTROL SYSTEM : Component Parts Location

INFOID:000000011154106



1. BCM (view with combination meter removed)

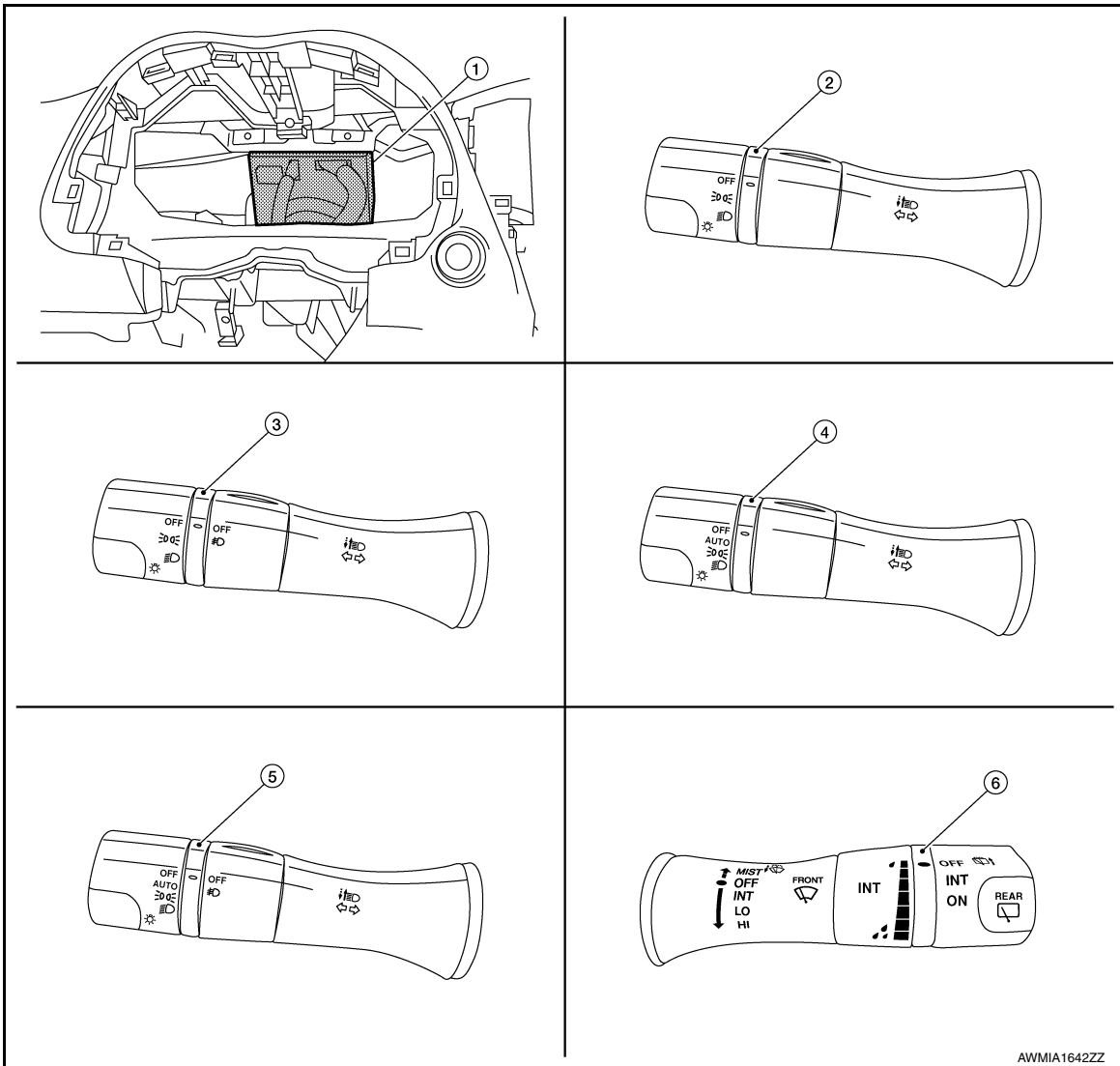
### COMBINATION SWITCH READING SYSTEM

# COMPONENT PARTS

< SYSTEM DESCRIPTION >

[BCM]

## COMBINATION SWITCH READING SYSTEM : Component Parts Location INFOID:000000011154107



- |  |   |   |
|--|---|---|
| 1. BCM (view with combination meter removed)                       | 2. Combination switch (lighting and turn signal) (without auto light and front fog lamps) | 3. Combination switch (lighting and turn signal) (without auto light, with front fog lamps) |
| 4. Combination switch (lighting and turn signal) (with auto light) | 5. Combination switch (lighting and turn signal) (with auto light and front fog lamps)    | 6. Combination switch (wiper and washer)  |

## POWER CONSUMPTION CONTROL SYSTEM

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**BCS**

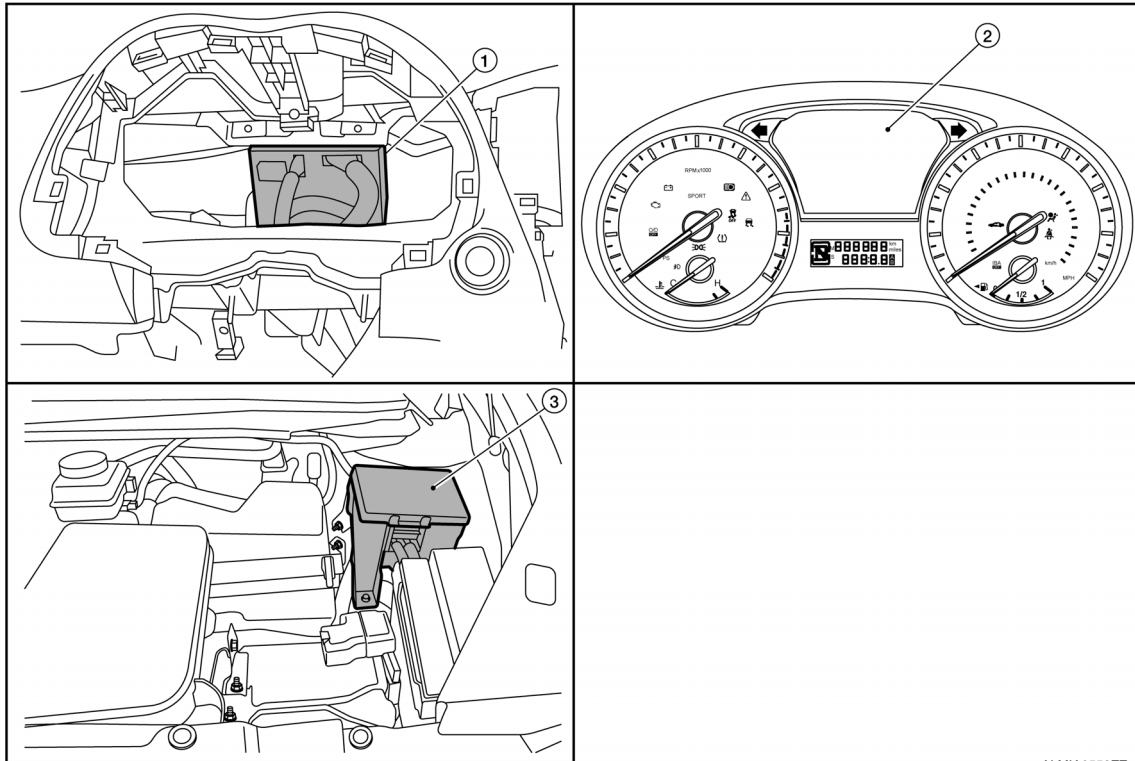
# COMPONENT PARTS

< SYSTEM DESCRIPTION >

[BCM]

## POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location

INFOID:000000011154108



ALMIA0552ZZ

1. BCM (view with combination meter removed)
2. Combination meter removed
3. IPDM E/R

# SYSTEM

[BCM]

< SYSTEM DESCRIPTION >

## SYSTEM

### BODY CONTROL SYSTEM

#### BODY CONTROL SYSTEM : System Description

INFOID:000000011154109

#### OUTLINE

- BCM (body control module) controls various electrical components. It receives the information required from CAN communication and the signals received from each switch and sensor.
- BCM has a combination switch reading function for reading the status of combination switches (light, turn signal, wiper and washer) in addition to functions for controlling the operation of various electrical components. It also has a signal transmission function for other systems, and a power consumption control function that reduces the power consumption with the ignition switch OFF.
- BCM is equipped with a diagnosis function that operates with CONSULT and allows for various settings to be changed.

#### BCM FUNCTION LIST

System	Refer to
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-12. "POWER CONSUMPTION CONTROL SYSTEM : System Description"</a>
Auto light system (if equipped)	<a href="#">EXL-9. "AUTO LIGHT SYSTEM : System Description"</a>
Headlamp system	<a href="#">EXL-8. "HEADLAMP SYSTEM : System Description"</a>
Daytime light system (if equipped)	<a href="#">EXL-10. "DAYTIME RUNNING LIGHT SYSTEM : System Description"</a>
Front fog lamp system (if equipped)	<a href="#">EXL-11. "FRONT FOG LAMP SYSTEM : System Description"</a>
Turn signal and hazard warning lamps system	<a href="#">EXL-10. "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description"</a>
Parking, license plate and tail lamps system	<a href="#">EXL-11. "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description"</a>
Trailer tow system (if equipped)	<a href="#">EXL-12. "TRAILER TOW SYSTEM : System Description"</a>
Exterior lamp battery saver system	<a href="#">EXL-8. "HEADLAMP SYSTEM : System Description"</a>
Interior room lamp battery saver system	<a href="#">INL-6. "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"</a>
Interior room lamp control system	<a href="#">INL-6. "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"</a>
Front wiper and washer system	<a href="#">WW-9. "FRONT WIPER AND WASHER SYSTEM : System Description"</a>
Rear wiper and washer system	<a href="#">WW-12. "REAR WIPER AND WASHER SYSTEM : System Description"</a>
Warning chime system	<a href="#">WCS-6. "WARNING CHIME SYSTEM : System Description"</a>
Door lock system	<a href="#">DLK-20. "System Description"</a>
Back door open system	<a href="#">DLK-39. "System Description"</a>
Nissan vehicle immobilizer system (NVIS)	<a href="#">SEC-12. "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS : System Description"</a>
Vehicle security system	<a href="#">DLK-35. "WARNING FUNCTION : System Description"</a>
Panic alarm	
Rear window defogger system	<a href="#">DEF-6. "System Description"</a>

# SYSTEM

[BCM]

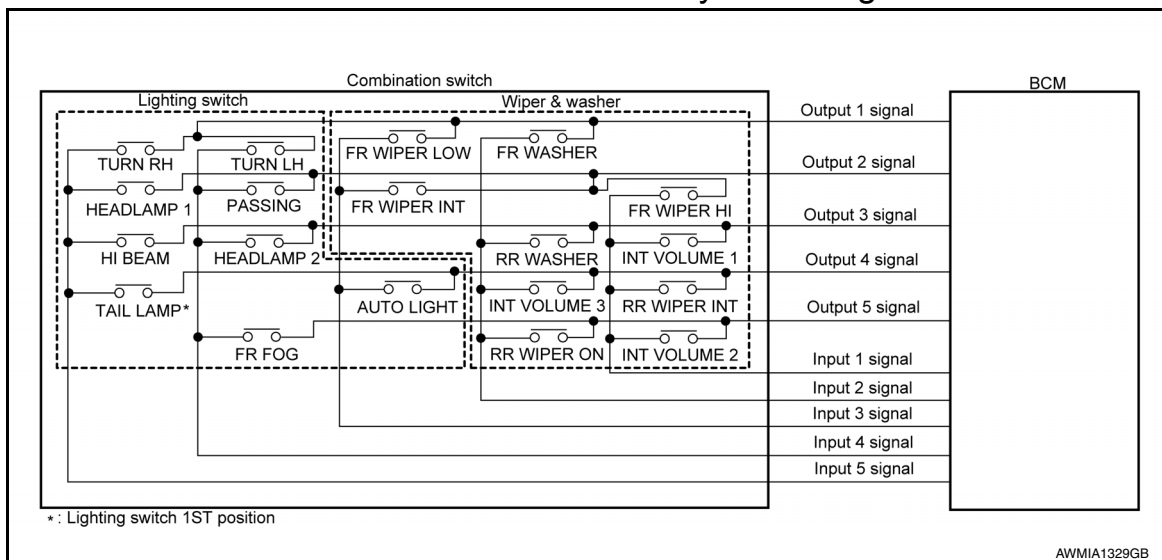
## < SYSTEM DESCRIPTION >

System	Refer to	
Intelligent Key system/engine start system	Door lock function	<ul style="list-style-type: none"> <li>DLK-23, "DOOR LOCK FUNCTION : System Description" (door request switch)</li> <li>DLK-23, "DOOR LOCK FUNCTION : System Description" (Intelligent Key)</li> </ul>
	Back door open function	<ul style="list-style-type: none"> <li>DLK-26, "BACK DOOR OPEN FUNCTION : System Description" (back door request switch)</li> <li>DLK-26, "BACK DOOR OPEN FUNCTION : System Description" (Intelligent Key)</li> </ul>
	Warning function	DLK-35, "WARNING FUNCTION : System Description"
	Key reminder function	DLK-30, "KEY REMINDER FUNCTION : System Description"
	Engine start function	SEC-9, "INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION : System Description"
Power window system	PWC-10, "System Description"	
RAP (retained accessory power) system	BCS-27, "RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)"	
TPMS (tire pressure monitoring system)	WT-9, "System Description"	

## COMBINATION SWITCH READING SYSTEM

### COMBINATION SWITCH READING SYSTEM : System Diagram

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### COMBINATION SWITCH READING SYSTEM : System Description

INFOID:000000011154111

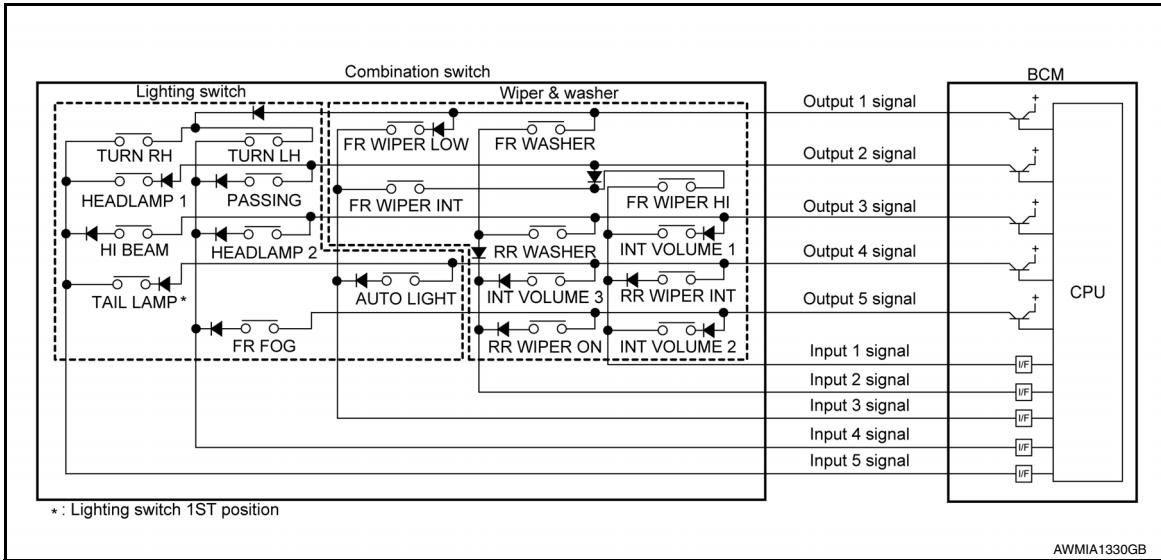
#### OUTLINE

- 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) and reads a maximum of 20 switch states.

#### COMBINATION SWITCH MATRIX



## Combination switch circuit



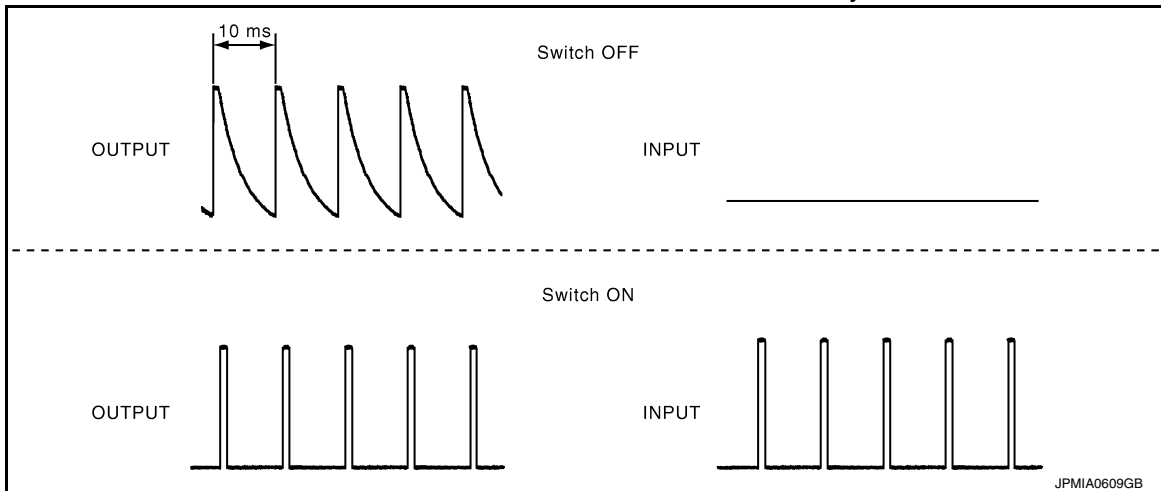
Combination switch INPUT-OUTPUT system list

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

### COMBINATION SWITCH READING FUNCTION

#### Description

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



**NOTE:**

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

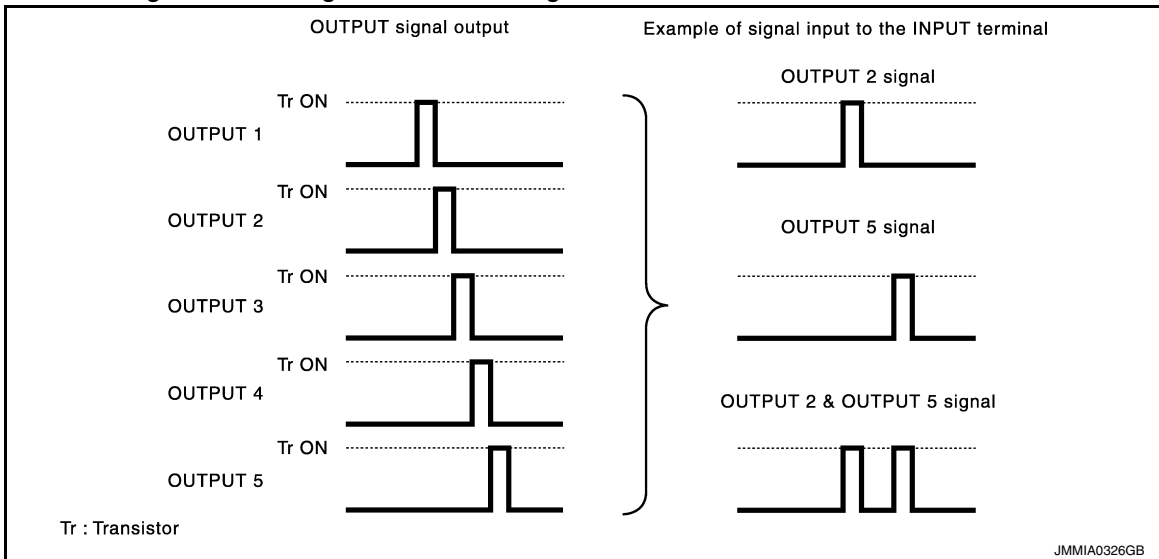
- BCM operates as follows and judges the status of the combination switch.
  - It operates the transistor on OUTPUT side in the following order: OUTPUT 1 → 2 → 3 → 4 → 5, and outputs voltage waveform.
  - The voltage waveform of OUTPUT corresponding to the formed circuit is input into the interface on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

# SYSTEM

[BCM]

## < SYSTEM DESCRIPTION >

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

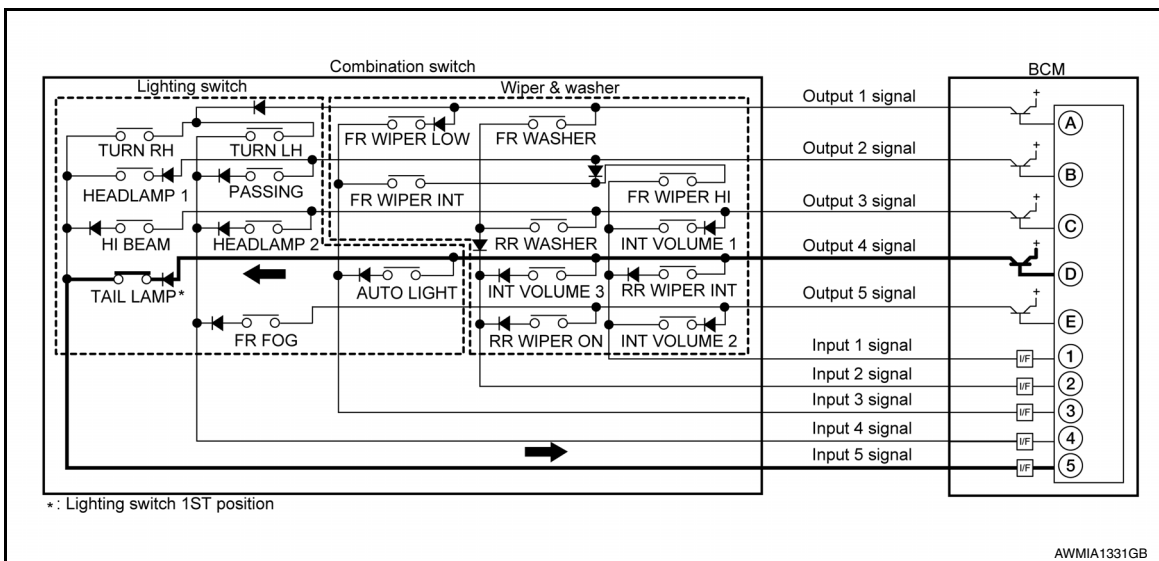


### Operation Example

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 (TAIL LAMP) is turned ON

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



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

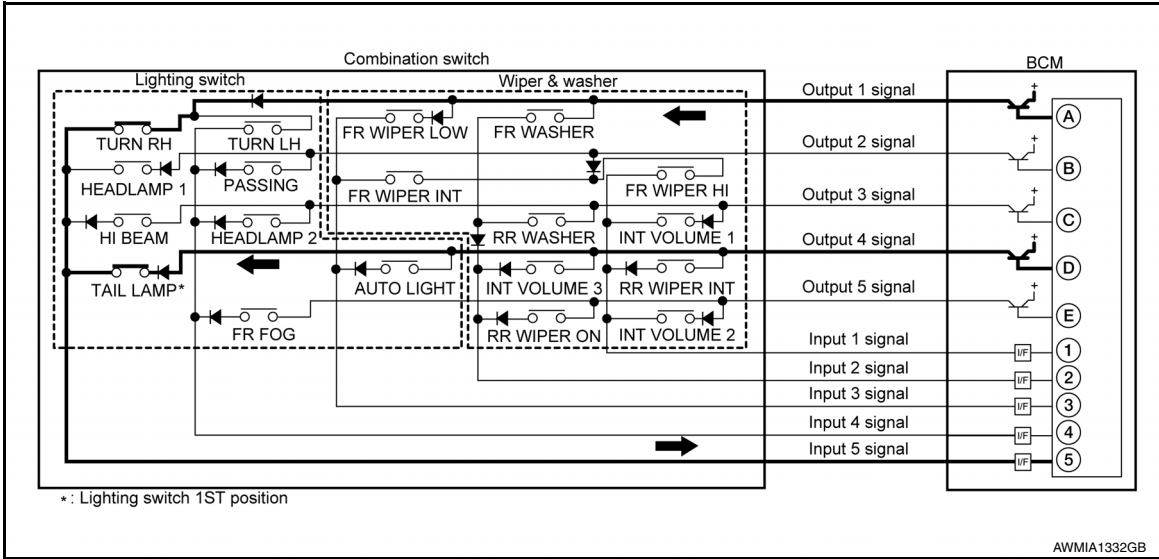
Example 2: When some switches (TURN RH, TAIL LAMP) are turned ON

# SYSTEM

[BCM]

## < SYSTEM DESCRIPTION >

- The circuits between OUTPUT 1 and INPUT 5 and between OUTPUT 4 and INPUT 5 are formed when the TURN RH switch and TAIL LAMP switch are turned ON.



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

WIPER INTERMITTENT DIAL POSITION SETTING (FRONT WIPER INTERMITTENT OPERATION)  
 BCM judges the wiper intermittent dial 1 - 7 by the status of INT VOLUME 1, 2, and 3 switches.

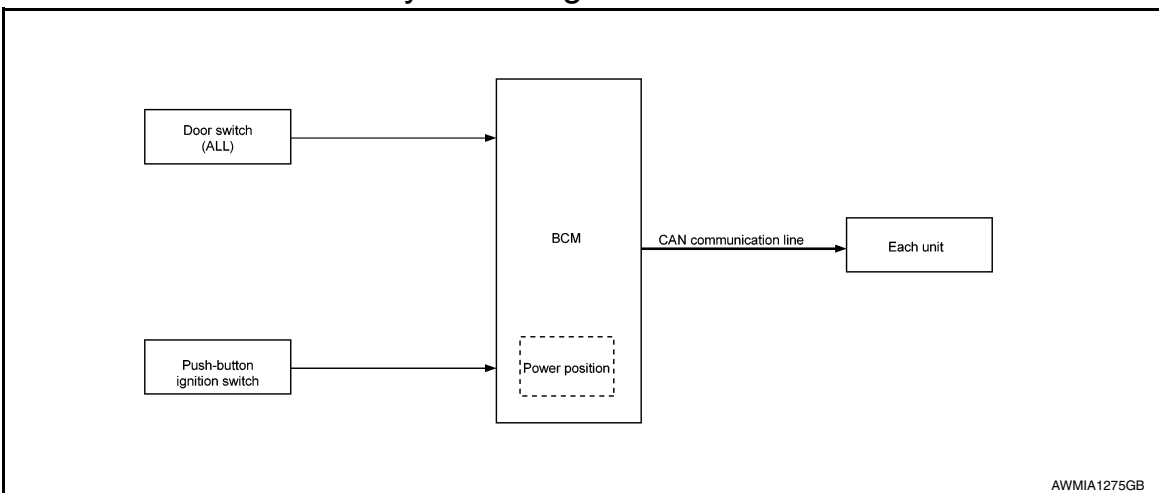
Wiper intermittent dial position	Switch status		
	INT VOLUME 1	INT VOLUME 2	INT VOLUME 3
1	ON	ON	ON
2	ON	ON	OFF
3	ON	OFF	OFF
4	OFF	OFF	OFF
5	OFF	OFF	ON
6	OFF	ON	ON
7	OFF	ON	OFF

## SIGNAL BUFFER SYSTEM

### SIGNAL BUFFER SYSTEM : System Diagram

INFOID:000000011154112

BCS



## SIGNAL BUFFER SYSTEM : System Description

INFOID:0000000011154113

### OUTLINE

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

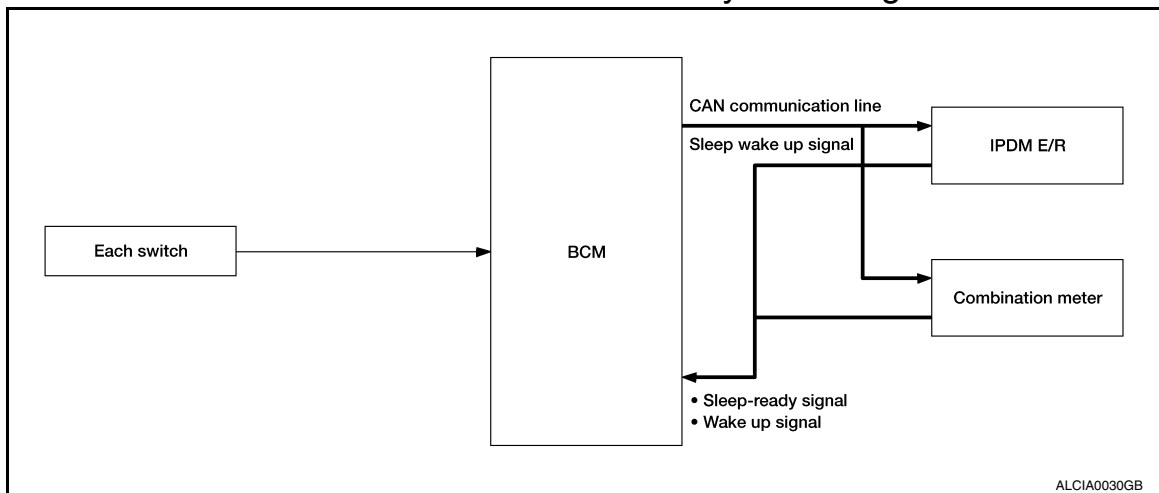
### Signal transmission function list

Signal name	Input	Output	Description
<ul style="list-style-type: none"> <li>Ignition switch ON signal</li> <li>Ignition switch signal</li> </ul>	Engine switch (push switch)	IPDM E/R (CAN)	Inputs the push-button ignition switch (push switch) signal and transmits the ignition switch status judged with BCM via CAN communication.
Door switch signal	Any door switch	<ul style="list-style-type: none"> <li>Combination meter (CAN)</li> <li>IPDM E/R (CAN)</li> </ul>	Inputs the door switch signal and transmits it via CAN communication.

## POWER CONSUMPTION CONTROL SYSTEM

### POWER CONSUMPTION CONTROL SYSTEM : System Diagram

INFOID:0000000011154114



### POWER CONSUMPTION CONTROL SYSTEM : System Description

INFOID:0000000011154115

#### 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 and combination meter) 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 each switch changes from 10 ms interval to 60 ms interval.

#### Sleep mode activation

# SYSTEM

**[BCM]**

## < SYSTEM DESCRIPTION >

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

### Sleep condition

CAN sleep condition	BCM sleep condition
<ul style="list-style-type: none"> <li>• Receiving the sleep-ready signal (ready) from all units</li> <li>• Ignition switch: OFF</li> <li>• Vehicle security system alarm and panic alarm : No operation</li> <li>• Warning lamp: Not operation</li> <li>• Intelligent Key system buzzer: No operation</li> <li>• Brake switch: OFF</li> <li>• Turn signal indicator lamp: No operation</li> <li>• Exterior lamp: OFF</li> <li>• Door lock status: No change</li> <li>• CONSULT communication status: No communication</li> <li>• Meter display signal : Non-transmission</li> <li>• Door switch status: No change</li> <li>• Rear window defogger: OFF</li> </ul>	<ul style="list-style-type: none"> <li>• Interior room lamp battery saver: Time out</li> <li>• RAP system: OFF</li> <li>• Power window switch communication: No transmission</li> <li>• Push-button ignition switch (push switch) illumination: OFF</li> <li>• NATS: No operation</li> <li>• Remote keyless entry receiver communication status: No communication</li> <li>• Tire pressure monitoring system: Stop</li> </ul>

### Wake-up operation

- BCM changes from the low power consumption mode to the CAN communication sleep mode when the any of the BCM wake-up conditions are fulfilled. Only the control with BCM is activated.
- BCM transmits the sleep wake up signal (wake up) to each unit when any of the CAN wake-up conditions are fulfilled. It changes from the low power consumption mode or the CAN communication sleep mode to the normal mode.
- Each unit starts the transmission of CAN communication with the sleep wake up signal. In addition, the combination meter transmits the wake up signal to BCM via CAN communication to report the CAN communication start.

BCM wake-up condition	CAN wake-up condition
<ul style="list-style-type: none"> <li>• Door unlock sensor: OFF→ON, ON→OFF</li> <li>• Door lock assembly LH (key cylinder switch): Lock or unlock</li> <li>• Door lock switch: OFF→ON</li> <li>• Door unlock switch: OFF→ON</li> <li>• Back door opener switch: OFF→ON</li> <li>• Power window serial link communication: Receiving</li> <li>• Remote keyless entry receiver: Receiving valid keyfob</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>• PASSING switch: OFF→ON, ON→OFF</li> <li>• TAIL LAMP switch: OFF→ON</li> <li>• Driver door switch: OFF→ON, ON→OFF</li> <li>• Passenger door switch: OFF → ON, ON → OFF</li> <li>• Back door switch: OFF→ON, ON→OFF</li> <li>• Driver door request switch: OFF→ON</li> <li>• Passenger door request switch: OFF→ON</li> <li>• Back door request switch: OFF→ON</li> <li>• Stop lamp switch 2 signal: ON</li> <li>• Remote keyless entry receiver: Receiving valid keyfob</li> </ul>

# DIAGNOSIS SYSTEM (BCM)

[BCM]

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000011154116

#### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

#### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul style="list-style-type: none"> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul>
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

#### SYSTEM APPLICATION

BCM can perform the following functions.

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

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

System	Sub System	Direct Diagnostic Mode						
		Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

## DOOR LOCK

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

INFOID:000000011154117

#### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

#### SELF DIAGNOSTIC RESULT

Refer to [BCS-52, "DTC Index"](#).

#### DATA MONITOR

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

#### ACTIVE TEST

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

#### WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.
	Off	Automatic door locks function OFF.
AUTO UNLOCK TYPE	MODE2	Driver door only unlocks automatically.
	MODE1*	All doors unlock automatically.

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

Support Item	Setting	Description
AUTO LOCK FUNCTION	MODE3	This mode is not used.
	MODE2	Doors lock automatically when shifted out of P (park).
	MODE1*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).
	Off	—
AUTO UNLOCK FUNCTION	MODE3	This mode is not used.
	MODE2	Doors unlock automatically when shifted into P (park).
	MODE1*	Doors unlock automatically when ignition is switched from ON to OFF.
	Off	—

\* : Initial setting

## REAR DEFOGGER

REAR DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

INFOID:000000011154118

### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

## DATA MONITOR

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

## ACTIVE TEST

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

## WORK SUPPORT

Support Item	Setting	Description
SET R-DEF TIMER	MODE3	Rear defogger turns OFF after 1 minute.
	MODE2	Rear defogger remains ON until turned OFF.
	MODE1*	Rear defogger turns OFF after 15 minutes.

\* : Initial setting

## BUZZER

BUZZER : CONSULT Function (BCM - BUZZER)

INFOID:000000011154119

### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

## DATA MONITOR

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



# DIAGNOSIS SYSTEM (BCM)

[BCM]

## < SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
TAIL LAMP SW [On/Off]	Indicates condition of combination switch.
FR FOG SW [On/Off]	Indicates condition of front fog lamp switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.

## ACTIVE TEST

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

## INT LAMP

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

INFOID:000000011154120

#### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

## DATA MONITOR

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

## ACTIVE TEST

Test Item	Description
INT LAMP	This test is able to check interior room lamp operation [On/Off].
STEP LAMP TEST	This test is able to check step lamp operation [On/Off].

## WORK SUPPORT

#### NOTE:

The items listed below are the only applicable Work Support items for this vehicle. If other items are displayed on CONSULT, do not use or change the setting for these other items.

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

Support Item	Setting	Description
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	Interior room lamp timer function ON.
	Off*	Interior room lamp timer function OFF.
FOG LAMP OVERRIDE	On*	Fog lamp override function ON.
	Off	Fog lamp override function OFF.

\*: Initial setting

## HEADLAMP

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

INFOID:000000011154121

#### CAUTION:

**After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.**

## DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
ENGINE STATE [STOP/STALL/CRANK/RUN]	Indicates engine status received from ECM on CAN communication line.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.
TURN SIGNAL R [On/Off]	Indicates condition of combination switch.
TURN SIGNAL L [On/Off]	
TAIL LAMP SW [On/Off]	
HI BEAM SW [On/Off]	
HEAD LAMP SW 1 [On/Off]	
HEAD LAMP SW 2 [On/Off]	
PASSING SW [On/Off]	
AUTO LIGHT SW [On/Off]	
FR FOG SW [On/Off]	
DOOR SW-DR [On/Off]	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.
OPTI SEN (DTCT) [V]	Indicates outside brightness voltage signal from optical sensor.
OPTI SEN (FILT) [V]	Indicates outside brightness voltage signal from optical sensor filtered by BCM.

## ACTIVE TEST

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

## WORK SUPPORT

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

Support Item	Setting	Description	
TWILIGHT On	MODE2*	Autolamp function ON.	A
	MODE1	Autolamp function OFF.	
WIPER LINK	MODE4	This mode is not used.	B
	MODE3*	Wiper link function operates in INT, LOW and HI.	
	MODE2	Wiper link function operates in LOW and HI.	C
	MODE1	Wiper link function OFF.	
CUSTOM A/LIGHT SETTING	MODE4	Less sensitive than normal setting (turns ON later).	D
	MODE3	More sensitive than MODE2.	
	MODE2	More sensitive than normal setting (turns ON earlier).	E
	MODE1*	Normal setting.	
ILL DELAY SET	MODE 8	Autolamp delay timer.	F
	MODE 7		
	MODE 6		
	MODE 4		
	MODE 5		
	MODE 3		
	MODE 2		
	MODE 1*		

\* : Initial setting

## WIPER

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

INFOID:0000000011154122

#### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

## DATA MONITOR

Monitor Item [Unit]	Description	
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.	
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.	BCS
FR WIPER HI [On/Off]	Indicates condition of wiper operation of combination switch.	
FR WIPER LOW [On/Off]		
FR WASHER SW [On/Off]		
FR WIPER INT [On/Off]		
FR WIPER STOP [On/Off]	Indicates front wiper auto stop signal received from IPDM E/R on CAN communication line.	O
INT VOLUME [1 - 7]	Indicates condition of intermittent wiper operation of combination switch.	
RR WIPER ON [On/Off]	Indicates condition of rear wiper operation of combination switch.	
RR WIPER INT [On/Off]		
RR WASHER SW [On/Off]		
RR WIPER STOP [On/Off]		Indicates rear wiper motor auto stop input from rear wiper motor.

## ACTIVE TEST

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

Test Item	Description
FR WIPER	This test is able to check front wiper operation [Hi/Lo/INT/Off].
RR WIPER	This test is able to check rear wiper operation [On/Off].

## WORK SUPPORT

Support Item	Setting	Description
WIPER SPEED SETTING	On	Front wiper intermittent time linked with vehicle speed and wiper intermittent dial position.
	Off*	Front wiper intermittent time is not linked with vehicle speed and wiper intermittent dial position.

\*: Initial Setting

## FLASHER

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

INFOID:0000000011154123

#### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

## DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
TURN SIGNAL R [On/Off]	Indicates condition of turn signal function of combination switch.
TURN SIGNAL L [On/Off]	
HAZARD SW [On/Off]	Indicates condition of hazard switch.
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.
RKE-PANIC [On/Off]	Indicates condition of panic alarm signal from Intelligent Key.

## ACTIVE TEST

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

## AIR CONDITIONER

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

INFOID:0000000011154124

#### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

## DATA MONITOR

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

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

## INTELLIGENT KEY

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

INFOID:000000011154125

#### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

#### SELF DIAGNOSTIC RESULT

Refer to [BCS-52. "DTC Index"](#).

#### DATA MONITOR

Monitor Item [Unit]	Main	Description
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	×	Indicates condition of back door request switch.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.
SHFTLCK SLNID PWR SPLY [On/Off]	×	Indicates condition of power supply to shiftlock solenoid.
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch.
BRAKE SW 2 [On/Off]		Indicates condition of brake switch.
DETE/CANCL SW [On/Off]	×	Indicates condition of P (park) position.
SFT PN/N SW [On/Off]	×	Indicates condition of P (park) or N (neutral) position.
UNLK SEN -DR [On/Off]	×	Indicates condition of door unlock sensor.
PUSH SW -IPDM [On/Off]		Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line.
IGN RLY1 -F/B [On/Off]		Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line.
DETE SW -IPDM [On/Off]		Indicates condition of detent switch received from TCM on CAN communication line.
SFT PN -IPDM [On/Off]		Indicates condition of P (park) or N (neutral) position from TCM on CAN communication line.
SFT P -MET [On/Off]		Indicates condition of P (park) position from TCM on CAN communication line.
SFT N -MET [On/Off]		Indicates condition of N (neutral) position from IPDM E/R on CAN communication line.
ENGINE STATE [STOP/START/CRANK/RUN]	×	Indicates condition of engine state from ECM on CAN communication line.
VEH SPEED 1 [mph/km/h]	×	Indicates condition of vehicle speed signal received from ABS on CAN communication line.
VEH SPEED 2 [mph/km/h]	×	Indicates condition of vehicle speed signal received from combination meter on CAN communication line.
DOOR STAT-DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.
DOOR STAT-AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.
DOOR STAT-RR [LOCK/READY/UNLK]	×	Indicates condition of rear right side door status.
DOOR STAT-RL [LOCK/READY/UNLK]	×	Indicates condition of rear left side door status.
BK DOOR STATE [LOCK/READY/UNLK]	×	Indicates condition of back door status.

# DIAGNOSIS SYSTEM (BCM)

[BCM]

## < SYSTEM DESCRIPTION >

Monitor Item [Unit]	Main	Description
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.
I-KEY OK FLAG [Key ON/Key OFF]	×	Indicates condition of Intelligent Key OK flag.
PRBT ENG STRT [Set/Reset]		Indicates condition of engine start prohibit.
ID AUTHENT CANCEL TIMER [STOP]		Indicates condition of Intelligent Key ID authentication.
ACC BATTERY SAVER [STOP]		Indicates condition of battery saver.
CRNK PRBT TMR [On/Off]		Indicates condition of crank prohibit timer.
AUT CRNK TMR [On/Off]		Indicates condition of automatic engine crank timer from Intelligent Key.
CRNK PRBT TME [sec]		Indicates condition of engine crank prohibit time.
AUT CRNK TME [sec]		Indicates condition of automatic engine crank time from Intelligent Key.
CRANKING TME [sec]		Indicates condition of engine cranking time from Intelligent Key.
DETE SW PWR [On/Off]		Indicates condition of detent switch voltage.
IGN RLY3 -REQ [On/Off]		Indicates condition of front blower motor relay control request.
ACC RLY -REQ [On/Off]		Indicates condition of accessory relay control request.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.
RKE-TR/BD [On/Off]		Indicates condition of back door open signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.
RKE PBD [On/Off]		Indicates condition of power back door signal from Intelligent Key.

## ACTIVE TEST

Test Item	Description
INTELLIGENT KEY LINK (CAN)	This test is able to check Intelligent Key identification number [Off/ID No1/ID N02/ID No3/ID No4/ID No5].
INT LAMP	This test is able to check interior room lamp operation [On/Off].
FLASHER	This test is able to check hazard lamp operation [LH/RH/Off].
HORN	This test is able to check horn operation [On].
BATTERY SAVER	This test is able to check battery saver operation [On/Off].
TRUNK/BACK DOOR	This test is able to check back door actuator operation [Open].
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation [On/Off].
INSIDE BUZZER	This test is able to check combination meter warning chime operation [Take Out/Knob/Key/Off].
INDICATOR	This test is able to check combination meter warning lamp operation [KEY ON/KEY IND/Off].
IGN CONT2	This test is able to check ignition relay-2 control operation [On/Off].
ENGINE SW ILLUMI	This test is able to check push-button ignition switch START indicator operation [On/Off].
PUSH SWITCH INDICATOR	This test is able to check push-button ignition switch indicator operation [On/Off].
ACC CONT	This test is able to check accessory relay control operation [On/Off].
IGN CONT1	This test is able to check ignition relay-1 control operation [On/Off].
ST CONT LOW	This test is able to check starter control relay operation [On/Off].
IGNITION RELAY	This test is able to check ignition relay operation [On/Off].

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

Test Item	Description
REVERSE LAMP TEST	This test is able to check reverse lamp illumination operation [On/Off].
DOOR HANDLE LAMP TEST	This test is able to check door handle lamp illumination operation [On/Off].
TRUNK/LUGGAGE LAMP TEST	This test is able to check cargo lamp illumination operation [On/Off].
KEYFOB P/W TEST	This test is able to check power window operation using the Intelligent Key [P/W up/down OFF/Send P/W down ON/Send P/W up ON].
SHIFTLOCK SORENOID TEST	This test is able to check shift lock solenoid operation [On/Off].

## WORK SUPPORT

Support Item	Setting	Description
IGN/ACC BATTERY SAVER	On*	Battery saver function ON.
	Off	Battery saver function OFF.
REMOTE ENGINE STARTER	On*	Remote engine start function ON.
	Off	Remote engine start function OFF.
ANSWER BACK I-KEY LOCK UNLOCK	BUZZER	Buzzer reminder function by door lock/unlock request switch ON.
	HORN	Horn chirp reminder function by door lock request switch ON.
	Off*	No reminder function by door lock/unlock request switch.
	INVALID	This mode is not used.
ANSWERBACK KEYLESS LOCK UNLOCK	On	Buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key.
	Off*	No buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key.
WELCOME LIGHT OP SET	On*	Door handle lamp function from request switch ON.
	Off	Door handle lamp function from request switch OFF.
ANSWER BACK	On*	Horn chirp reminder when doors are locked with Intelligent Key.
	Off	No horn chirp reminder when doors are locked with Intelligent Key.
RETRACTABLE MIRROR SET	On	Retractable mirror set ON.
	Off*	Retractable mirror set OFF.
CONFIRM KEY FOB ID	—	Intelligent Key ID code registration can be checked.
LOCK/UNLOCK BY I-KEY	On*	Door lock/unlock function from Intelligent Key ON.
	Off	Door lock/unlock function from Intelligent Key OFF.
ENGINE START BY I-KEY	On*	Engine start function from Intelligent Key ON.
	Off	Engine start function from Intelligent Key OFF.
TRUNK/GLASS HATCH OPEN	On*	Buzzer reminder function by back door request switch ON.
	Off	Buzzer reminder function by back door request switch OFF.
INTELLIGENT KEY LINK SET	On	Intelligent Key link set ON.
	Off*	Intelligent Key link set OFF.
SHORT CRANKING OUTPUT	Start	70 msec
		100 msec
		200 msec
	End	—
INSIDE ANT DIAGNOSIS	—	This function allows inside key antenna self-diagnosis.

# DIAGNOSIS SYSTEM (BCM)

[BCM]

## < SYSTEM DESCRIPTION >

Support Item	Setting		Description
AUTO LOCK SET	MODE7	5 min	Auto door lock time can be set in this mode.
	MODE6	4 min	
	MODE5	3 min	
	MODE4	2 min	
	MODE3*	1 min	
	MODE2	30 sec	
	MODE1	Off	

\*: Initial Setting

## COMB SW

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

INFOID:000000011154126

#### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

## DATA MONITOR

Monitor Item [Unit]	Description
FR WIPER HI [On/Off]	Indicates condition of wiper operation of combination switch.
FR WIPER LOW [On/Off]	
FR WASHER SW [On/Off]	
FR WIPER INT [On/Off]	
INT VOLUME [1 - 7]	Indicates condition of intermittent wiper operation of combination switch.
RR WIPER ON [On/Off]	Indicates condition of rear wiper operation of combination switch.
RR WIPER INT [On/Off]	
RR WASHER SW [On/Off]	
TURN SIGNAL R [On/Off]	Indicates condition of right turn signal operation of combination switch.
TURN SIGNAL L [On/Off]	Indicates condition of left turn signal operation of combination switch.
TAIL LAMP SW [On/Off]	Indicates condition of tail lamp switch operation of combination switch.
HI BEAM SW [On/Off]	Indicates condition of Hi beam switch operation of combination switch.
HEAD LAMP SW 1 [On/Off]	Indicates condition of head lamp switch 1 operation of combination switch.
HEAD LAMP SW 2 [On/Off]	Indicates condition of head lamp switch 2 operation of combination switch.
PASSING SW [On/Off]	Indicates condition of passing switch operation of combination switch.
AUTO LIGHT SW [On/Off]	Indicates condition of auto light switch operation of combination switch.
FR FOG SW [On/Off]	Indicates condition of front fog lamp switch operation of combination switch.

## BCM

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

INFOID:000000011154127

#### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

## ECU IDENTIFICATION

The BCM part number is displayed.



# DIAGNOSIS SYSTEM (BCM)

[BCM]

## < SYSTEM DESCRIPTION >

### SELF DIAGNOSTIC RESULT

Refer to [BCS-52. "DTC Index"](#).

### WORK SUPPORT

Support Item	Setting	Description
RESET SETTING VALUE	Reset	Returns BCM to initial value in factory shipment.
	Cancel	Cancels the reset function.

### CONFIGURATION

Refer to [BCS-65. "CONFIGURATION \(BCM\) : Description"](#).

### CAN DIAG SUPPORT MNTR

Refer to [LAN-18. "CAN Diagnostic Support Monitor"](#).

### IMMU

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

INFOID:000000011154128

#### **CAUTION:**

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

### SELF DIAGNOSTIC RESULT

Refer to [BCS-52. "DTC Index"](#).

### DATA MONITOR

Monitor Item [Unit]	Description
CONFIRM ID ALL [Yet/DONE]	Switches to DONE when an Intelligent Key is registered.
CONFIRM ID4 [Yet/DONE]	
CONFIRM ID3 [Yet/DONE]	
CONFIRM ID2 [Yet/DONE]	
CONFIRM ID1 [Yet/DONE]	
TP 4 [Yet/DONE]	DONE indicates the number of Intelligent Key ID which has been registered.
TP 3 [Yet/DONE]	
TP 2 [Yet/DONE]	
TP 1 [Yet/DONE]	
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.

### ACTIVE TEST

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

### BATTERY SAVER

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

INFOID:000000011154129

#### **CAUTION:**

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

### DATA MONITOR

# DIAGNOSIS SYSTEM (BCM)

[BCM]

## < SYSTEM DESCRIPTION >

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

## ACTIVE TEST

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

## TRUNK

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

INFOID:0000000011154130

#### **CAUTION:**

**After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.**

## DATA MONITOR

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

## THEFT ALM

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

INFOID:0000000011154131

#### **CAUTION:**

**After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.**

## DATA MONITOR

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

Monitored Item	Description	
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.	A
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.	B
REQ SW -BD/TR [On/Off]	Indicates condition of back door request switch.	B
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.	
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.	C
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.	D
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	
DOOR SW-BK [On/Off]	Indicates condition of back door switch.	E
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.	
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.	
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.	F
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.	
TR/BD OPEN SW [On/Off]	Indicates condition of back door opener switch.	G
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.	
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.	
RKE-TR/BD [On/Off]	Indicates condition of back door open signal from Intelligent Key.	H

## ACTIVE TEST

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

## WORK SUPPORT

Support Item	Setting	Description	
SECURITY ALARM SET	On	Security alarm ON.	
	Off	Security alarm OFF.	

## RETAINED PWR

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

INFOID:0000000011154132

#### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

## DATA MONITOR

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

## SIGNAL BUFFER

A  
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BCS

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

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

INFOID:0000000011154134

### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

### DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of the push-button ignition switch.

## AIR PRESSURE MONITOR

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

INFOID:0000000011154134

### CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

### NOTE:

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

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

### SELF DIAGNOSTIC RESULT

#### NOTE:

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

Refer to [BCS-52, "DTC Index"](#).

### DATA MONITOR

Monitor Item [Unit]	Description
AIR PRESS FL [kPa, kg/cm <sup>2</sup> or Psi]	Indicates air pressure of front LH tire.
AIR PRESS FR [kPa, kg/cm <sup>2</sup> or Psi]	Indicates air pressure of front RH tire.
AIR PRESS RR [kPa, kg/cm <sup>2</sup> or Psi]	Indicates air pressure of rear RH tire.
AIR PRESS RL [kPa, kg/cm <sup>2</sup> or Psi]	Indicates air pressure of rear LH tire.
ID REGST FL1 [Done/Yet]	Indicates ID registration status of front LH transmitter.
ID REGST FR1 [Done/Yet]	Indicates ID registration status of front RH transmitter.
ID REGST RR1 [Done/Yet]	Indicates ID registration status of rear RH transmitter.
ID REGST RL1 [Done/Yet]	Indicates ID registration status of rear LH transmitter.
WARNING LAMP [Off/On]	Indicates condition of low tire pressure warning lamp in combination meter.
BUZZER [Off/On]	Indicates condition of buzzer in combination meter.

### ACTIVE TEST

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

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].

## WORK SUPPORT

Support Item	Description
ID READ	The registered ID number is displayed.
ID REGIST	Refer to <a href="#">WT-30. "Description"</a> .

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P

BCS

# ECU DIAGNOSIS INFORMATION

## BCM

### Reference Value

INFOID:0000000011154135

**NOTE:**

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

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

### VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ACC BATTERY SAVER	When battery saver is OFF.	STOP
ACC RLY -REQ	When BCM is not requesting accessory relay activation.	Off
	When BCM is requesting accessory relay activation.	On
AIR COND SW	A/C switch OFF	Off
	A/C switch ON	On
AIR PRESS FL	Front left tire air pressure value	kPa, kg/cm <sup>2</sup> , psi
AIR PRESS FR	Front right tire air pressure value	kPa, kg/cm <sup>2</sup> , psi
AIR PRESS RL	Rear left tire air pressure value	kPa, kg/cm <sup>2</sup> , psi
AIR PRESS RR	Rear right tire air pressure value	kPa, kg/cm <sup>2</sup> , psi
AUT CRNK TME	Remote engine start timer duration.	sec
AUT CRNK TMR	When the remote engine start timer is OFF.	Off
	When the remote engine start timer is ON.	On
AUTO LIGHT SW	Lighting switch OFF	Off
	Lighting switch AUTO	On
BK DOOR STATE	Back door LOCK status	LOCK
	Back door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
BRAKE SW 1	When the brake pedal is released	On
	When the brake pedal is depressed	Off
BRAKE SW2	Brake pedal released	Off
	Brake pedal depressed	On
BUZZER	Buzzer in combination meter OFF	Off
	Buzzer in combination meter ON	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the LOCK side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the UNLOCK side	On
CONFRM ID ALL	The key ID does not match any key ID registered to BCM.	Yet
	The key ID matches any key ID registered to BCM.	DONE

# BCM

## < ECU DIAGNOSIS INFORMATION >

[BCM]

Monitor Item	Condition	Value/Status	
CONFIRM ID4	The key ID does not match the fourth key ID registered to BCM.	Yet	A
	The key ID matches the fourth key ID registered to BCM.	DONE	
CONFIRM ID3	The key ID does not match the third key ID registered to BCM.	Yet	B
	The key ID matches the third key ID registered to BCM.	DONE	
CONFIRM ID2	The key ID does not match the second key ID registered to BCM.	Yet	C
	The key ID matches the second key ID registered to BCM.	DONE	
CONFIRM ID1	The key ID does not match the first key ID registered to BCM.	Yet	D
	The key ID matches the first key ID registered to BCM.	DONE	
CRANKING TME	Engine start timer duration.	sec	
CRNK PRBT TME	Engine start prohibit timer duration.	sec	
CRNK PRBT TMR	When the engine start prohibit timer is OFF.	Off	E
	When the engine start prohibit timer is ON.	On	
DETE SW -IPDM	When selector lever is in P position	Off	F
	When selector lever is in any position other than P	On	
DETE SW PWR	When BCM is not supplying power to detent switch.	Off	G
	When BCM is supplying power to detent switch.	On	
DETE/CANCL SW	When selector lever is in P position	Off	H
	When selector lever is in any position other than P	On	
DOOR STAT-AS	Passenger door LOCK status	LOCK	I
	Passenger door UNLOCK status	UNLK	
	Wait with selective UNLOCK operation (5 seconds)	READY	
DOOR STAT-DR	Driver door LOCK status	LOCK	J
	Driver door UNLOCK status	UNLK	
	Wait with selective UNLOCK operation (5 seconds)	READY	
DOOR STAT-RL	Rear left door LOCK status	LOCK	K
	Rear left door UNLOCK status	UNLK	
	Wait with selective UNLOCK operation (5 seconds)	READY	
DOOR STAT-RR	Rear right door LOCK status	LOCK	L
	Rear right door UNLOCK status	UNLK	
	Wait with selective UNLOCK operation (5 seconds)	READY	
DOOR SW-AS	Front door RH closed	Off	BCS
	Front door RH opened	On	
DOOR SW-BK	Back door closed	Off	N
	Back door opened	On	
DOOR SW-DR	Front door LH closed	Off	O
	Front door LH opened	On	
DOOR SW-RL	Rear door LH closed	Off	P
	Rear door LH opened	On	
DOOR SW-RR	Rear door RH closed	Off	
	Rear door RH opened	On	
ENGINE STATE	Engine stopped	STOP	
	While the engine stalls	STALL	
	At engine cranking	CRANK	
	Engine running	RUN	

# BCM

## < ECU DIAGNOSIS INFORMATION >

[BCM]

Monitor Item	Condition	Value/Status
FAN ON SIG	Blower motor fan switch OFF	Off
	Blower motor fan switch ON	On
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER LOW	Front wiper switch OFF	Off
	Front wiper switch LO	On
FR WIPER HI	Front wiper switch OFF	Off
	Front wiper switch HI	On
FR WIPER INT	Front wiper switch OFF	Off
	Front wiper switch INT	On
FR WIPER STOP	Any position other than front wiper stop position	Off
	Front wiper stop position	On
HAZARD SW	When hazard switch is not pressed	Off
	When hazard switch is pressed	On
HEAD LAMP SW 1	Headlamp switch OFF	Off
	Headlamp switch 1st	On
HEAD LAMP SW 2	Headlamp switch OFF	Off
	Headlamp switch 1st	On
HI BEAM SW	High beam switch OFF	Off
	High beam switch HI	On
ID AUTHENT CANCEL TIMER	When I-Key authentication is OFF.	STOP
ID OK FLAG	Ignition switch ACC or ON	Reset
	Ignition switch OFF	Set
ID REGST FL1	ID registration of front left tire incomplete	YET
	ID registration of front left tire complete	DONE
ID REGST FR1	ID registration of front right tire incomplete	YET
	ID registration of front right tire complete	DONE
ID REGST RL1	ID registration of rear left tire incomplete	YET
	ID registration of rear left tire complete	DONE
ID REGST RR1	ID registration of rear right tire incomplete	YET
	ID registration of rear right tire complete	DONE
IGN RLY1 F/B	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
IGN RLY3 -REQ	Front blower motor OFF	Off
	Front blower motor ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
I-KEY OK FLAG	I-Key OFF	Key OFF
	I-Key ON	Key ON
KEY CYL LK-SW	Door key cylinder LOCK position	On
	Door key cylinder other than LOCK position	Off
KEY CYL UN-SW	Door key cylinder UNLOCK position	On
	Door key cylinder other than UNLOCK position	Off



# BCM

## < ECU DIAGNOSIS INFORMATION >

[BCM]

Monitor Item	Condition	Value/Status	
RKE PBD	I-Key power back door button not pressed	Off	A
	I-Key power back door button pressed	On	
OPTI SEN (DTCT)	Bright outside of the vehicle	Close to 5V	B
	Dark outside of the vehicle	Close to 0V	
OPTI SEN (FILT)	Bright outside of the vehicle	Close to 5V	C
	Dark outside of the vehicle	Close to 0V	
PASSING SW	Other than lighting switch PASS	Off	D
	Lighting switch PASS	On	
PRBT ENG STRT	When the engine start is prohibited	Reset	E
	When the engine start is permitted	Set	
PRMT ENG STRT	When the engine start is prohibited	Reset	F
	When the engine start is permitted	Set	
PRMT RKE STRT	When the engine start is prohibited	Reset	G
	When the engine start is permitted	Set	
PUSH SW	Return ignition switch to LOCK position	Off	H
	Press ignition switch	On	
PUSH SW-IPDM	When engine switch (push switch) is not pressed	Off	I
	When engine switch (push switch) is pressed	On	
REAR DEF SW	Rear window defogger switch OFF	Off	J
	Rear window defogger switch ON	On	
RR WASHER SW	Rear washer switch OFF	Off	K
	Rear washer switch ON	On	
RR WIPER INT	Rear wiper switch OFF	Off	L
	Rear wiper switch INT	On	
RR WIPER ON	Rear wiper switch OFF	Off	
	Rear wiper switch ON	On	
RR WIPER STOP	Any position other than rear wiper stop position	Off	
	Rear wiper stop position	On	
REQ SW -AS	When passenger door request switch is not pressed	Off	
	When passenger door request switch is pressed	On	
REQ SW -BD/TR	When back door request switch is not pressed	Off	BCS
	When back door request switch is pressed	On	
REQ SW -DR	When driver door request switch is not pressed	Off	N
	When driver door request switch is pressed	On	
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	Off	O
	When LOCK button of Intelligent Key is pressed	On	
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off	P
	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On	
RKE OPE COUN1	Operation frequency of Intelligent Key	0-19	
RKE OPE COUN2	Operation frequency of Intelligent Key	0-19	
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	Off	
	When PANIC button of Intelligent Key is pressed	On	

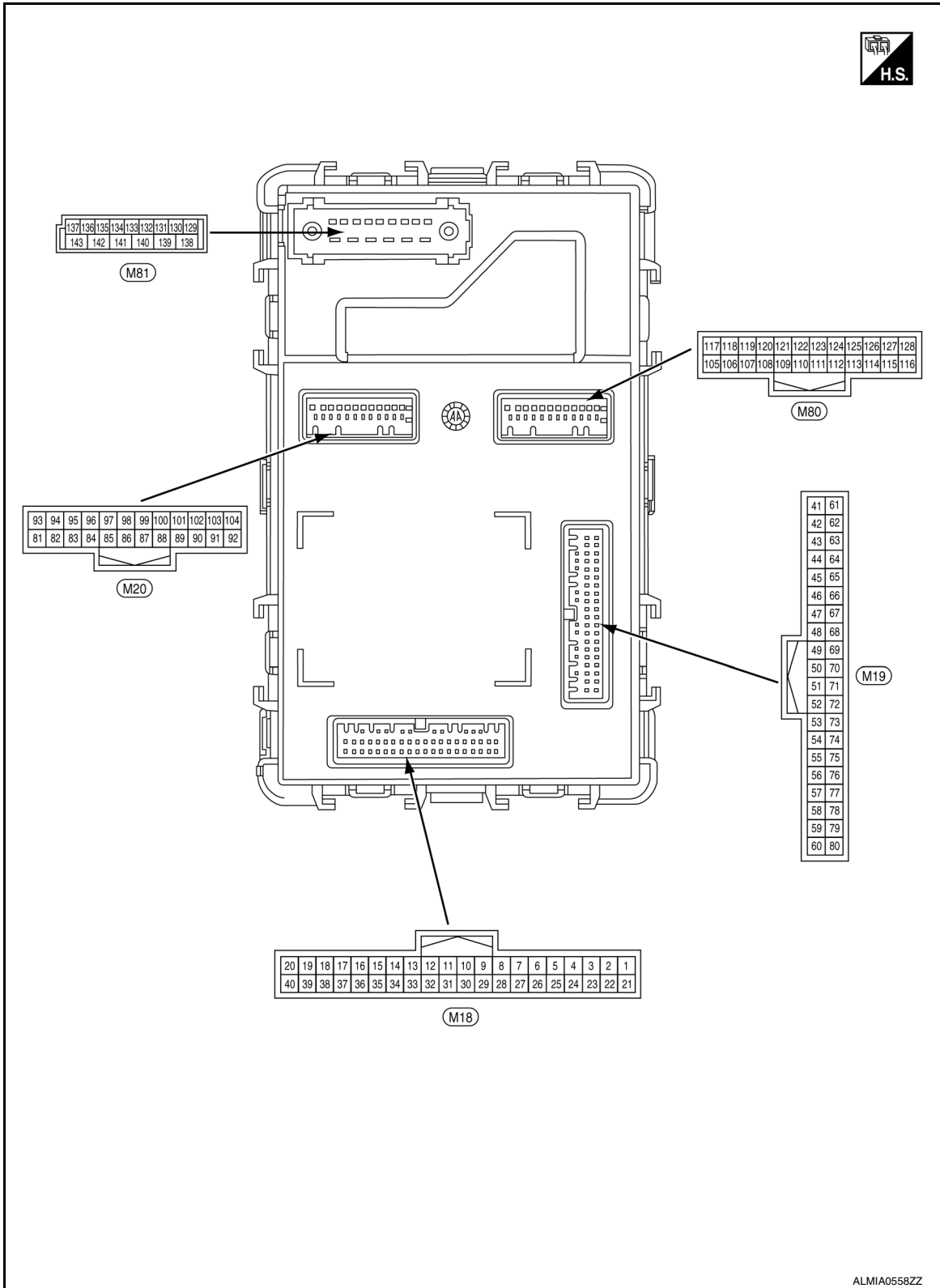
# BCM

## < ECU DIAGNOSIS INFORMATION >

**[BCM]**

Monitor Item	Condition	Value/Status
RKE-TR/BD	When BACK DOOR OPEN button of Intelligent Key is not pressed	Off
	When BACK DOOR OPEN button of Intelligent Key is pressed	On
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	Off
	When UNLOCK button of Intelligent Key is pressed	On
SFT N-MET	When selector lever is in any position other than N	Off
	When selector lever is in N position	On
SFT P-MET	When selector lever is in any position other than P	Off
	When selector lever is in P position	On
SFT PN -IPDM	When selector lever is in any position other than P or N	Off
	When selector lever is in P or N position	On
SFT PN/N SW	When selector lever is in any position other than P or N	Off
	When selector lever is in P or N position	On
SHFTLCK SLNID PWR SPLY	When BCM is not supplying power to shiftlock.	Off
	When BCM is supplying power to shiftlock.	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
	Lighting switch 1ST or 2ND	On
TP 4	The ID of fourth key is not registered to BCM	Yet
	The ID of fourth key is registered to BCM	DONE
TP 3	The ID of third key is not registered to BCM	Yet
	The ID of third key is registered to BCM	DONE
TP 2	The ID of second key is not registered to BCM	Yet
	The ID of second key is registered to BCM	DONE
TP 1	The ID of first key is not registered to BCM	Yet
	The ID of first key is registered to BCM	DONE
TR/BD OPEN SW	Back door opener switch OFF	Off
	While the back door opener switch is turned ON	On
TURN SIGNAL L	Turn signal switch OFF	Off
	Turn signal switch LH	On
TURN SIGNAL R	Turn signal switch OFF	Off
	Turn signal switch RH	On
UNLK SEN-DR	Driver door UNLOCK status	Off
	Driver door LOCK status	On
VEH SPEED 1	While driving, equivalent to speedometer reading	mph, km/h
VEH SPEED 2	While driving, equivalent to speedometer reading	mph, km/h
WARNING LAMP	Low tire pressure warning lamp in combination meter OFF	Off
	Low tire pressure warning lamp in combination meter ON	On

TERMINAL LAYOUT



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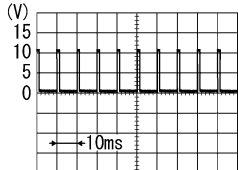
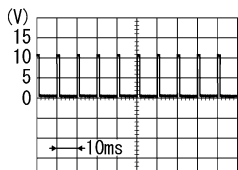
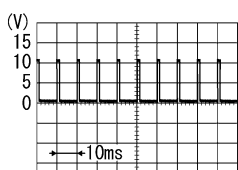
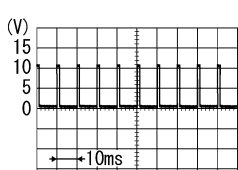
BCS

PHYSICAL VALUES

# BCM

## < ECU DIAGNOSIS INFORMATION >

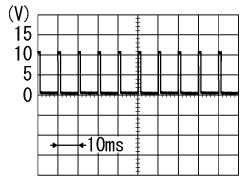
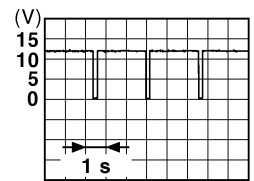
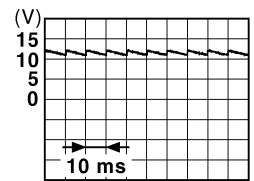
[BCM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
(+)	(-)					
1 (G)	Ground	Engine start switch	Input	Push-button ignition switch	Pressed	0V
				Not pressed	Battery voltage	
3 (W)	Ground	Auto light power supply 5V	Output	Push-button ignition switch	OFF	0V
					ACC or ON	5V
4 (G)	Ground	Auto light signal	Input	Push-button ignition switch ON	When outside of the vehicle is bright	Close to 5V
					When outside of the vehicle is dark	Close to 0V
10 (W)	Ground	Combination switch input 5	Input	Combination switch (Wiper intermittent dial 4)	OFF	0V
					TURN RH	
					HEADLAMP 1	
					HI BEAM	
					TAIL LAMP	
1.0V						
11 (BG)	Ground	Combination switch input 4	Input	Combination switch (Wiper intermittent dial 4)	OFF	0V
					TURN LH	
					PASSING	
					HEADLAMP 2	
					FR FOG	
1.0V						
12 (R)	Ground	Combination switch input 3	Input	Combination switch (Wiper intermittent dial 4)	OFF	0V
					FR WIPER LOW	
					FR WIPER INT/AUTO	
					AUTO LIGHT	
1.0V						
13 (G)	Ground	Combination switch input 2	Input	Combination switch (Wiper intermittent dial 4)	OFF	0V
					FR WASHER	
					RR WASHER	
					INT VOLUME 3	
					RR WIPER ON	
1.0V						

# BCM

## < ECU DIAGNOSIS INFORMATION >

**[BCM]**

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
(+)	(-)					
14 (P)	Ground	Combination switch input 1	Input	Combination switch (Wiper intermit- tent dial 4)	OFF	0V
					FR WIPER HI	
					INT VOLUME 1	
					RR WIPER INT	
					INT VOLUME 2	
					1.0V	
17 (R)	Ground	Auto light reference ground	Input	Push-button ignition switch ON	0V	
18 (V)	Ground	Security indicator	Output	Security indicator	ON	0V
					Blinking	
						11.3V
19 (Y)	Ground	Central door lock sw signal	Input	Door lock/unlock switch	OFF	Battery voltage
					Lock	Battery voltage
					Unlock	0V
20 (W)	Ground	Shift P	Input	Selector lever	P position	0V
					Any position other than P	Battery voltage
21 (W)	Ground	Step lamp control	Output	Step lamp	ON	0V
					OFF	Battery voltage
24 (SB)	Ground	Door key/c unlock sw signal	Input	Key cylinder switch	OFF (neutral)	5V
					ON (unlock)	0V
25 (W)	Ground	Brake switch fuse	Input	—	Battery voltage	
26 (L)	Ground	Shorting input	Input	Push-button ignition switch OFF	Battery voltage	
27 (G)	Ground	Brake switch lamp	Input	Stop lamp switch	OFF (brake pedal is not de- pressed)	0V
					ON (brake pedal is de- pressed)	Battery voltage
30 (P)	Ground	Driver door lock sta- tus	Input	Front door LH	LOCK status	
						11.8V
					UNLOCK status	0V
32 (R)	Ground	Rr def sw signal	Input	Rear window de- fogger switch	OFF	5V
					ON	0V

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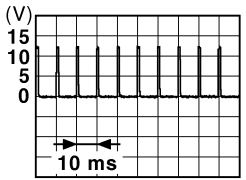
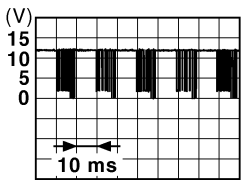
BCS

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# BCM

## < ECU DIAGNOSIS INFORMATION >

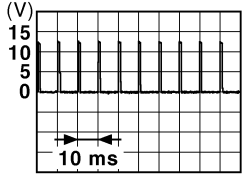
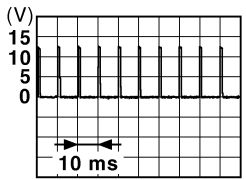
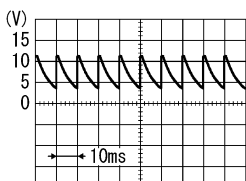
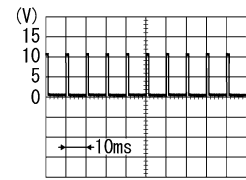
**[BCM]**

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
34 (BR)	Ground	Central door unlock sw signal	Input	Door lock/unlock switch	Unlock	Battery voltage
					Lock	0V
36 (W)	Ground	Hazard switch	Input	Hazard switch	Pressed	0 V
					Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0012GB</p>
39 (G)	Ground	Shift N/P	Input	Selector lever	P or N position	Battery voltage
					Except P and N positions	0V
48 (R)	Ground	High side start switch LED	Output	Push-button igni- tion switch illumina- tion	ON	5.5V
					OFF	0V
52 (W)	Ground	Audio dongle	Input/ Output	Push-button ignition switch OFF		5V
54 (W)	Ground	Power window link/ communication	Input/ Output	Push-button igni- tion switch	ON	 <p style="text-align: right; font-size: small;">JPMIA0013GB</p>
					OFF or ACC	0V
59 (P)	Ground	CAN low	Input/ Output	—		—
60 (L)	Ground	CAN high	Input/ Output	—		—
61 (BG)	Ground	Rear defogger relay output	Output	Rear window de- fogger	Activated	Battery voltage
					Not activated	0V
62 (W)	Ground	Starter relay output	Output	Push-button igni- tion switch ON	When selector lever is in P or N position and the brake is depressed	Battery voltage
					When selector lever is in P or N position and the brake is not depressed	0V
63 (BG)	Ground	I-Key link signal	Output	Push-button ignition switch OFF → ON, after unlocking door by 1st key registered to BCM		5V
				Push-button ignition switch OFF → ON, after unlocking door by 2nd key registered to BCM		0V
64 (P)	Ground	Buzzer output	Output	Outside warning buzzer	Sounding	0V
					Not sounding	Battery voltage
66 (W)	Ground	Blower fan relay out- put	Output	Push-button igni- tion switch	OFF or ACC	0V
					ON	Battery voltage
67 (G)	Ground	Ignition electrical re- lay output 2	Output	Push-button igni- tion switch	OFF or ACC	0V
					ON	Battery voltage

# BCM

## < ECU DIAGNOSIS INFORMATION >

**[BCM]**

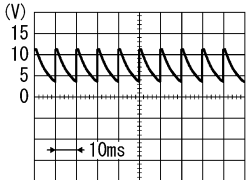
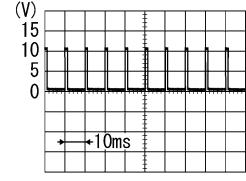
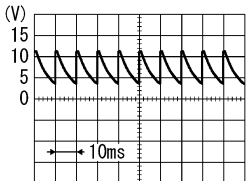
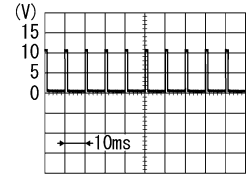
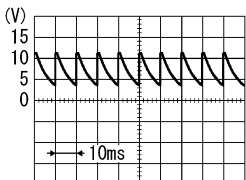
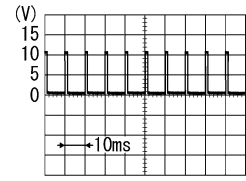
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
68 (P)	Ground	Dimmer signal output	Output	Push-button ignition switch ON	Either of the following conditions • Lighting switch OFF • The area around the vehicle is bright (Shine a light on the optical sensor)	0V
					The area around the vehicle is dark (Block the light from the optical sensor)	Battery voltage
69 (G)	Ground	CVT device output	Output	—		Battery voltage
70 (P)	Ground	IPDM E/R ignition output 1	Output	Push-button ignition switch	OFF or ACC	0V
					ON	Battery voltage
71 (R)	Ground	Driver request switch	Input	Front door LH request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: right; font-size: small;">JPMIA0016GB</p>
72 (G)	Ground	Passenger request switch	Input	Front door RH request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: right; font-size: small;">JPMIA0016GB</p>
74 (BR)	Ground	Door key/c lock sw signal	Input	Front door lock assembly LH (key cylinder switch)	OFF (neutral)	5V
					ON (lock)	0V
75 (BG)	Ground	Combination switch output 5	Output	Combination switch (Wiper intermittent dial 4)	OFF	 <p style="text-align: right; font-size: small;">PKIB4960J</p>
					INT VOLUME 2	 <p style="text-align: right; font-size: small;">PKIB4956J</p>
					RR WIPER ON	
					FR FOG	

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## < ECU DIAGNOSIS INFORMATION >

**[BCM]**

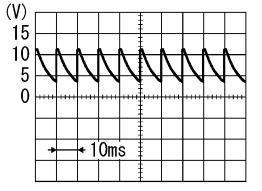
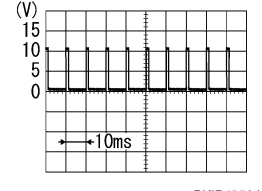
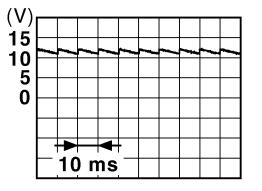
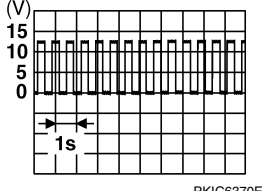
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
76 (P)	Ground	Combination switch output 4	Output	Combination switch (Wiper intermit- tent dial 4)	OFF	 <p style="text-align: right; font-size: small;">PKIB4960J</p> <p style="text-align: center;">7.0 – 8.0V</p>
					RR WIPER INT	 <p style="text-align: right; font-size: small;">PKIB4958J</p> <p style="text-align: center;">1.2V</p>
					INT VOLUME 3	
					AUTO LIGHT	
TAIL LAMP						
77 (R)	Ground	Combination switch output 3	Output	Combination switch (Wiper intermit- tent dial 4)	OFF	 <p style="text-align: right; font-size: small;">PKIB4960J</p> <p style="text-align: center;">7.0 – 8.0V</p>
					INT VOLUME 1	 <p style="text-align: right; font-size: small;">PKIB4958J</p> <p style="text-align: center;">1.2V</p>
					RR WASHER	
					HEADLAMP 2	
HI BEAM						
78 (G)	Ground	Combination switch output 2	Output	Combination switch (Wiper intermit- tent dial 4)	OFF	 <p style="text-align: right; font-size: small;">PKIB4960J</p> <p style="text-align: center;">7.0 – 8.0V</p>
					FR WIPER HI	 <p style="text-align: right; font-size: small;">PKIB4958J</p> <p style="text-align: center;">1.2V</p>
					FR WIPER INT/AUTO	
					PASSING	
HEADLAMP 1						



# BCM

## < ECU DIAGNOSIS INFORMATION >

**[BCM]**

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
79 (W)	Ground	Combination switch output 1	Output	Combination switch (Wiper intermit- tent dial 4)	OFF	 <p style="text-align: center;">7.0 – 8.0V</p>
					FR WASHER	 <p style="text-align: center;">1.2V</p>
					FR WIPER LOW	
					TURN LH	
TURN RH						
80 (R)	Ground	Back door open switch	Output	Back door	Open (back door actuator is activated)	Battery voltage
					Close (back door actuator is not activated)	0V
81 (L)	Ground	Rear wiper battery fuse	Input		Push-button ignition switch OFF	Battery voltage
82 (W)	Ground	Left rear door switch	Input	Rear door LH switch	OFF (when rear door LH closes)	 <p style="text-align: center;">11.8V</p>
					ON (when rear door LH opens)	0V
83 (BG)	Ground	Back door request switch	Input	Back door re- quest switch	ON (pressed)	0V
					OFF (not pressed)	Battery voltage
84 (BR)	Ground	Rear wiper autostop switch	Input	Push-button igni- tion switch ON	Rear wiper stop position	Battery voltage
					Any position other than rear wiper stop position	0V
86 (R)	Ground	Left rear trailer flash- er	Output	Push-button igni- tion switch ON	Turn signal switch OFF	Battery voltage
					Turn signal switch LH	 <p style="text-align: center;">6.0 - 7.0 V</p>

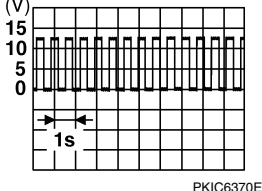
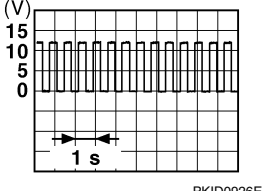
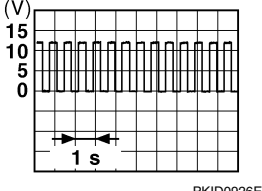
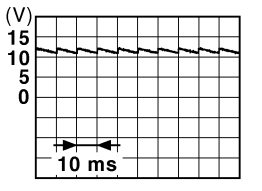
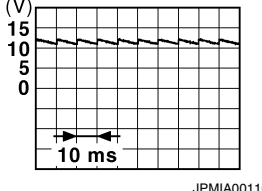
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# BCM

**[BCM]**

**< ECU DIAGNOSIS INFORMATION >**

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
87 (P)	Ground	Right rear trailer flasher	Output	Push-button igni- tion switch ON	Turn signal switch OFF  Turn signal switch RH	Battery voltage   6.0 - 7.0 V
				Back door opener switch	OFF  ON	0V  Battery voltage
91 (BR)	Ground	Back door open out signal	Output	Push-button igni- tion switch ON	Turn signal switch OFF  Turn signal switch RH	0V   6.5 V
				Rear door RH switch	OFF (when rear door RH closes)  ON (when rear door RH opens)	0V  11.8V  0V
92 (R)	Ground	Right rear flasher	Output	Rear door RH switch	OFF (when rear door RH closes)  ON (when rear door RH opens)	0V   6.5 V
				Front door RH switch	OFF (when front door RH closes)  ON (when front door RH opens)	0V  11.8V  0V
93 (R)	Ground	Right rear door switch	Input	Front door RH switch	OFF (when front door RH closes)  ON (when front door RH opens)	11.8V   11.8V
				Rear wiper	OFF (stopped)  ON (activated)	0V  Battery voltage
94 (G)	Ground	Passenger door switch	Input	Rear wiper	OFF (when front door RH closes)  ON (when front door RH opens)	0V   11.8 V
				Rear wiper output	OFF (stopped)  ON (activated)	0V  Battery voltage
95 (V)	Ground	Rear wiper output	Output	Rear wiper	OFF (stopped)  ON (activated)	0V  Battery voltage

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
96 (BG)	Ground	Driver door switch	Input	Front door LH switch	<p>11.8V</p>
				ON (front door LH OPEN)	0V
97 (W)	Ground	Back door switch	Input	Back door switch	<p>11.8V</p>
				ON (back door is open)	0V
99 (P)	Ground	Inside key antenna (luggage room) B	Output	Push-button ignition switch OFF	<p>JMKIA0062GB</p>
				Push-button ignition switch ON	<p>JMKIA0063GB</p>
100 (W)	Ground	Inside key antenna (luggage room) A	Output	Push-button ignition switch OFF	<p>JMKIA0062GB</p>
				Push-button ignition switch ON	<p>JMKIA0063GB</p>

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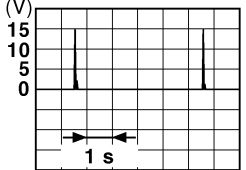
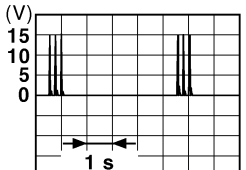
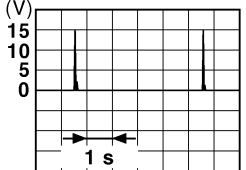
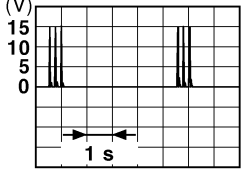
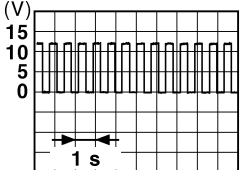
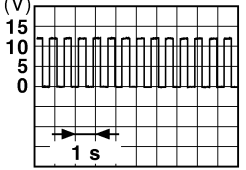
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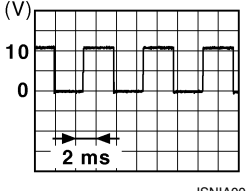
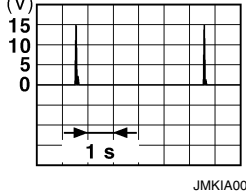
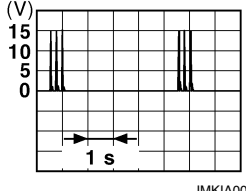
**[BCM]**

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
101 (R)	Ground	Outside key antenna (rear bumper) B	Output		
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
					 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
102 (G)	Ground	Outside key antenna (rear bumper) A	Output	When the back door request switch is operated with push-button ignition switch OFF	When Intelligent Key is in the antenna detection area
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
					 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
103 (BG)	Ground	Left rear flasher	Output	Push-button ignition switch ON	Turn signal switch OFF
				Turn signal switch LH	0V
					 <p style="text-align: right; font-size: small;">PKID0926E</p> <p style="text-align: center;">6.5 V</p>
104 (LG)	Ground	Reverse lamp output	Output	Push-button ignition switch ON	R position
				Any position other than R	0V
					 <p style="text-align: right; font-size: small;">PKID0926E</p> <p style="text-align: center;">6.5V</p>

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## < ECU DIAGNOSIS INFORMATION >

[BCM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
105 (LG)	Ground	Right front flasher	Output	Push-button ignition switch OFF	0V
				Push-button ignition switch ON	Turn signal switch RH
107 (W)	Ground	Low side start switch LED	Input	Push-button ignition switch OFF	0V
				Push-button ignition switch ON	<b>NOTE:</b> When the illumination brightening/dimming level is in the neutral position ON  2 ms
108 (GR)	Ground	Shift lock solenoid output	Input	Selector lever P position	0V
				Any position other than P	Battery voltage
109 (R)	Ground	Reverse signal	Output	Push-button ignition switch ON	R position
				Any position other than R	0V
111 (P)	Ground	ACC LED	Output	Push-button ignition switch OFF	Battery voltage
				Push-button ignition switch ON	ACC or ON
113 (L)	Ground	ACC relay output	Output	Push-button ignition switch OFF	0V
				Push-button ignition switch ON	ACC or ON
114 (W)	Ground	Outside key antenna (passenger side) A	Output	When the front door RH request switch is operated with push-button ignition switch ON	 1 s
				When the front door RH request switch is operated with push-button ignition switch OFF	When Intelligent Key is in the antenna detection area  1 s

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Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
115 (BG)	Ground	Outside key antenna (passenger side) B	Output	When the front door RH request switch is operated with push-button ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p>JMKIA0063GB</p>
116 (W)	Ground	Inside key antenna (console) A	Output	Push-button ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p>JMKIA0063GB</p>
117 (SB)	Ground	Left front flasher	Output	Turn signal switch OFF	0V
				Push-button ignition switch ON	<p>PKID0926E</p> <p>6.5 V</p>

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
119 (R)	Ground	Remote keyless entry receiver signal	Input/ Output	Push-button ignition switch ON	<p>OCC3881D</p>
				When receiving the signal from the transmitter	<p>OCC3880D</p>
121 (G)	Ground	Outside key antenna (driver side) B	Output	When the front door LH request switch is operated with push-button ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p>JMKIA0063GB</p>
122 (P)	Ground	Outside key antenna (driver side) A	Output	When the front door LH request switch is operated with push-button ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p>JMKIA0063GB</p>

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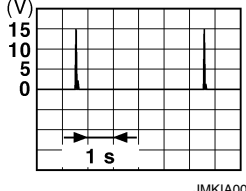
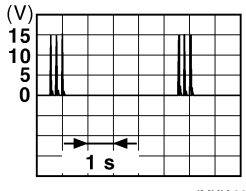
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
123 (W)	Ground	Inside key antenna (instrument center) A	Output	Push-button ignition switch OFF	<p>When Intelligent Key is in the passenger compartment</p>	
				Push-button ignition switch ON	<p>When Intelligent Key is not in the passenger compartment</p>	
124 (G)	Ground	Inside key antenna (instrument center) B	Output	Push-button ignition switch OFF	<p>When Intelligent Key is in the passenger compartment</p>	
				Push-button ignition switch ON	<p>When Intelligent Key is not in the passenger compartment</p>	
126 (P)	Ground	NATS antenna amp. B	Input/ Output	During waiting	Intelligent Key backside is contacted to push-button ignition switch, turn ignition switch ON.	Just after pressing push-button ignition switch. Pointer of analog volt meter should move.
127 (BG)	Ground	NATS antenna amp. A	Input/ Output	During waiting	Intelligent Key backside is contacted to push-button ignition switch, turn ignition switch ON.	Just after pressing push-button ignition switch. Pointer of analog volt meter should move.



# BCM

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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
128 (R)	Ground	Inside key antenna (console) B	Output	Push-button ignition switch OFF	When Intelligent Key is in the passenger compartment	
					When Intelligent Key is not in the passenger compartment	
129 (SB)	Ground	Battery saver output	Output	After passing the interior room lamp battery saver operation time		0V
				Any other time after passing the interior room lamp battery saver operation time		Battery voltage
130 (LG)	Ground	Passenger door unlock	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
					Other than UNLOCK (actuator is not activated)	0V
131 (W)	Ground	BCM battery fuse	Input	Push-button ignition switch OFF		Battery voltage
132 (BR)	Ground	Rear door lock	Output	All doors	LOCK (actuator is activated)	Battery voltage
					Other than LOCK (actuator is not activated)	0V
133 (Y)	Ground	Rear door unlock	Output	Rear door RH and rear door LH	UNLOCK (actuator is activated)	Battery voltage
					Other than UNLOCK (actuator is not activated)	0V
134 (B)	Ground	Ground 2	—	Push-button ignition switch ON		0V
135 (L)	Ground	Driver, passenger and fuel door lock	Output	All doors	LOCK (actuator is activated)	Battery voltage
					Other than LOCK (actuator is not activated)	0V
136 (LG)	Ground	Room lamp control	Output	Interior room lamp	OFF	Battery voltage
					ON	0V
137 (V)	Ground	Driver unlock	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage
					Other than UNLOCK (actuator is not activated)	0V
138 (V)	Ground	Rear door battery	Input	Push-button ignition switch OFF		Battery voltage
139 (W)	Ground	Fusible link battery power	Input	Push-button ignition switch OFF		Battery voltage

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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
140 (BR)	Ground	Power window ignition power supply	Output	Push-button ignition switch ON	Battery voltage
141 (Y)	Ground	Power window battery power supply	Output	Push-button ignition switch OFF	Battery voltage
142 (Y)	Ground	Front door battery	Input	Push-button ignition switch OFF	Battery voltage
143 (B)	Ground	Ground 1	—	Push-button ignition switch ON	0V

## Fail Safe

INFOID:0000000011154136

CONSULT Display	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
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
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> <li>• Starter control relay signal</li> <li>• Starter relay status signal</li> </ul>
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
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>
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> <li>• IGN relay (IPDM E/R) control signal: OFF (Battery voltage)</li> <li>• Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>• Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization

## DTC Inspection Priority Chart

INFOID:0000000011154137

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

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

# BCM

< ECU DIAGNOSIS INFORMATION >

[BCM]

Priority	DTC	
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>• B2560: STARTER CONT RELAY</li> <li>• B2601: SHIFT POSITION</li> <li>• B2602: SHIFT POSITION</li> <li>• B2603: SHIFT POSI STATUS</li> <li>• B2604: PNP SW</li> <li>• B2605: PNP SW</li> <li>• B2608: STARTER RELAY</li> <li>• B260A: IGNITION RELAY</li> <li>• B2614: ACC RELAY CIRC</li> <li>• B2615: BLOWER RELAY CIRC</li> <li>• B2616: IGN RELAY CIRC</li> <li>• B2617: STARTER RELAY CIRC</li> <li>• B2618: BCM</li> <li>• B261A: PUSH-BTN IGN SW</li> <li>• B261B: RES ENG RUN</li> <li>• B261E: VEHICLE TYPE</li> <li>• B26F1: IGNITION RELAY</li> <li>• B26F2: IGNITION RELAY</li> <li>• B26F3: STARTER CONTROL RELAY</li> <li>• B26F4: STARTER CONTROL RELAY</li> <li>• B26F6: BCM</li> <li>• B26F7: BCM</li> <li>• B26F8: BCM</li> <li>• B26FD: SHIFT LOCK SOLENOID</li> <li>• B26FE: HOOD SWITCH</li> <li>• B26FF: INTELLIGENT TUNER</li> <li>• C1729: VHCL SPEED SIG ERR</li> <li>• U0415: VEHICLE SPEED SIG</li> </ul>	<p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> <p>F</p> <p>G</p> <p>H</p> <p>I</p>
	<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>• C1712: [CHECKSUM ERR] FL</li> <li>• C1713: [CHECKSUM ERR] FR</li> <li>• C1714: [CHECKSUM ERR] RR</li> <li>• C1715: [CHECKSUM ERR] 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>• C1720: [CODE ERR] FL</li> <li>• C1721: [CODE ERR] FR</li> <li>• C1722: [CODE ERR] RR</li> <li>• C1723: [CODE ERR] RL</li> <li>• C1724: [BATT VOLT LOW] FL</li> <li>• C1725: [BATT VOLT LOW] FR</li> <li>• C1726: [BATT VOLT LOW] RR</li> <li>• C1727: [BATT VOLT LOW] RL</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>• C1735: IGNITION SIGNAL</li> </ul>	<p>J</p> <p>K</p> <p>L</p> <p><b>BCS</b></p> <p>N</p> <p>O</p> <p>P</p>

Priority	DTC
6	<ul style="list-style-type: none"> <li>• B2621: INSIDE ANTENNA</li> <li>• B2622: INSIDE ANTENNA</li> <li>• B2623: INSIDE ANTENNA</li> </ul>
7	B259A: ROOM LAMP FUSE

DTC Index

INFOID:000000011154138

**NOTE:**

- Details of time display
- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. Further testing may be required.	—	—	—	—
U1000: CAN COMM CIRCUIT	—	—	—	<a href="#">BCS-68, "Description"</a>
U1010: CONTROL UNIT (CAN)	—	—	—	<a href="#">BCS-69, "DTC Logic"</a>
U0415: VEHICLE SPEED SIG	—	—	—	<a href="#">BCS-70, "Description"</a>
B2190: NATS ANTENNA AMP	×	—	—	<a href="#">SEC-96, "Description"</a>
B2191: DIFFERENCE OF KEY	×	—	—	<a href="#">SEC-98, "Description"</a>
B2192: ID DISCORD BCM-ECM	×	—	—	<a href="#">SEC-99, "DTC Logic"</a>
B2193: CHAIN OF BCM-ECM	×	—	—	<a href="#">SEC-100, "DTC Logic"</a>
B2195: ANTI SCANNING	×	—	—	<a href="#">SEC-101, "DTC Logic"</a>
B2196: DONGLE UNIT	—	—	—	<a href="#">SEC-102, "Description"</a>
B2198: NATS ANTENNA AMP.	—	—	—	<a href="#">SEC-104, "DTC Logic"</a>
B2555: STOP LAMP	—	—	—	<a href="#">SEC-106, "DTC Logic"</a>
B2556: PUSH-BTN IGN SW	—	×	—	<a href="#">SEC-109, "DTC Logic"</a>
B2557: VEHICLE SPEED	—	×	—	<a href="#">SEC-111, "DTC Logic"</a>
B2560: STARTER CONT RELAY	×	×	—	<a href="#">SEC-112, "Description"</a>
B2562: LOW VOLTAGE	×	—	—	<a href="#">BCS-71, "DTC Logic"</a>
B259A: ROOM LAMP FUSE	—	—	—	<a href="#">BCS-72, "DTC Logic"</a>
B2601: SHIFT POSITION	—	×	—	<a href="#">SEC-113, "DTC Logic"</a>
B2602: SHIFT POSITION	—	×	—	<a href="#">SEC-116, "DTC Logic"</a>
B2603: SHIFT POSI STATUS	—	×	—	<a href="#">SEC-119, "DTC Logic"</a>
B2604: PNP SW	—	×	—	<a href="#">SEC-123, "DTC Logic"</a>
B2605: PNP SW	—	×	—	<a href="#">SEC-126, "DTC Logic"</a>
B2608: STARTER RELAY	×	×	—	<a href="#">SEC-129, "DTC Logic"</a>
B260A: IGNITION RELAY	×	×	—	<a href="#">PCS-60, "DTC Logic"</a>
B2614: ACC RELAY CIRC	—	×	—	<a href="#">PCS-62, "DTC Logic"</a>
B2615: BLOWER RELAY CIRC	—	×	—	<a href="#">PCS-64, "DTC Logic"</a>
B2616: IGN RELAY CIRC	—	×	—	<a href="#">PCS-66, "DTC Logic"</a>
B2617: STARTER RELAY CIRC	×	×	—	<a href="#">SEC-131, "Description"</a>
B2618: BCM	×	×	—	<a href="#">PCS-68, "DTC Logic"</a>

# BCM

< ECU DIAGNOSIS INFORMATION >

[BCM]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	
B261A: PUSH-BTN IGN SW	—	×	—	<a href="#">PCS-70, "DTC Logic"</a>	A
B261B: RES ENG RUN	—	—	—	<a href="#">DLK-150, "DTC Logic"</a>	B
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	—	<a href="#">SEC-133, "Description"</a>	
B2621: INSIDE ANTENNA	—	—	—	<a href="#">DLK-151, "DTC Logic"</a>	C
B2622: INSIDE ANTENNA	—	—	—	<a href="#">DLK-153, "DTC Logic"</a>	
B2623: INSIDE ANTENNA	—	—	—	<a href="#">DLK-155, "DTC Logic"</a>	D
B26F1: IGNITION RELAY	—	—	—	<a href="#">PCS-72, "DTC Logic"</a>	
B26F2: IGNITION RELAY	—	—	—	<a href="#">PCS-74, "DTC Logic"</a>	
B26F3: STARTER CONTROL RELAY	—	—	—	<a href="#">SEC-135, "DTC Logic"</a>	E
B26F4: STARTER CONTROL RELAY	—	—	—	<a href="#">SEC-136, "DTC Logic"</a>	
B26F6: BCM	—	—	—	<a href="#">PCS-76, "DTC Logic"</a>	F
B26F7: BCM	—	—	—	<a href="#">SEC-137, "DTC Logic"</a>	
B26F8: BCM	—	—	—	<a href="#">SEC-138, "DTC Logic"</a>	
B26FD: SHIFT LOCK SOLENOID	—	—	—	<a href="#">DLK-157, "DTC Logic"</a>	G
B26FE: HOOD SWITCH	—	—	—	<a href="#">DLK-160, "DTC Logic"</a>	
B26FF: REMOTE KEYLESS ENTRY RECEIVER	—	—	—	<a href="#">DLK-162, "DTC Logic"</a>	H
C1704: LOW PRESSURE FL	—	—	×	<a href="#">WT-33, "DTC Logic"</a>	
C1705: LOW PRESSURE FR	—	—	×		
C1706: LOW PRESSURE RR	—	—	×		
C1707: LOW PRESSURE RL	—	—	×		
C1708: [NO DATA] FL	—	—	×	<a href="#">WT-35, "DTC Logic"</a>	
C1709: [NO DATA] FR	—	—	×		
C1710: [NO DATA] RR	—	—	×		
C1711: [NO DATA] RL	—	—	×		
C1712: [CHECKSUM ERR] FL	—	—	×	<a href="#">WT-38, "DTC Logic"</a>	
C1713: [CHECKSUM ERR] FR	—	—	×		
C1714: [CHECKSUM ERR] RR	—	—	×		
C1715: [CHECKSUM ERR] RL	—	—	×		
C1716: [PRESSDATA ERR] FL	—	—	×	<a href="#">WT-40, "DTC Logic"</a>	BCS
C1717: [PRESSDATA ERR] FR	—	—	×		
C1718: [PRESSDATA ERR] RR	—	—	×		
C1719: [PRESSDATA ERR] RL	—	—	×		
C1720: [CODE ERR] FL	—	—	×	<a href="#">WT-41, "DTC Logic"</a>	
C1721: [CODE ERR] FR	—	—	×		
C1722: [CODE ERR] RR	—	—	×		
C1723: [CODE ERR] RL	—	—	×		
C1724: [BATT VOLT LOW] FL	—	—	×	<a href="#">WT-43, "DTC Logic"</a>	
C1725: [BATT VOLT LOW] FR	—	—	×		
C1726: [BATT VOLT LOW] RR	—	—	×		
C1727: [BATT VOLT LOW] RL	—	—	×		
C1729: VHCL SPEED SIG ERR	—	—	×	<a href="#">WT-45, "DTC Logic"</a>	P

# BCM

< ECU DIAGNOSIS INFORMATION >

[BCM]

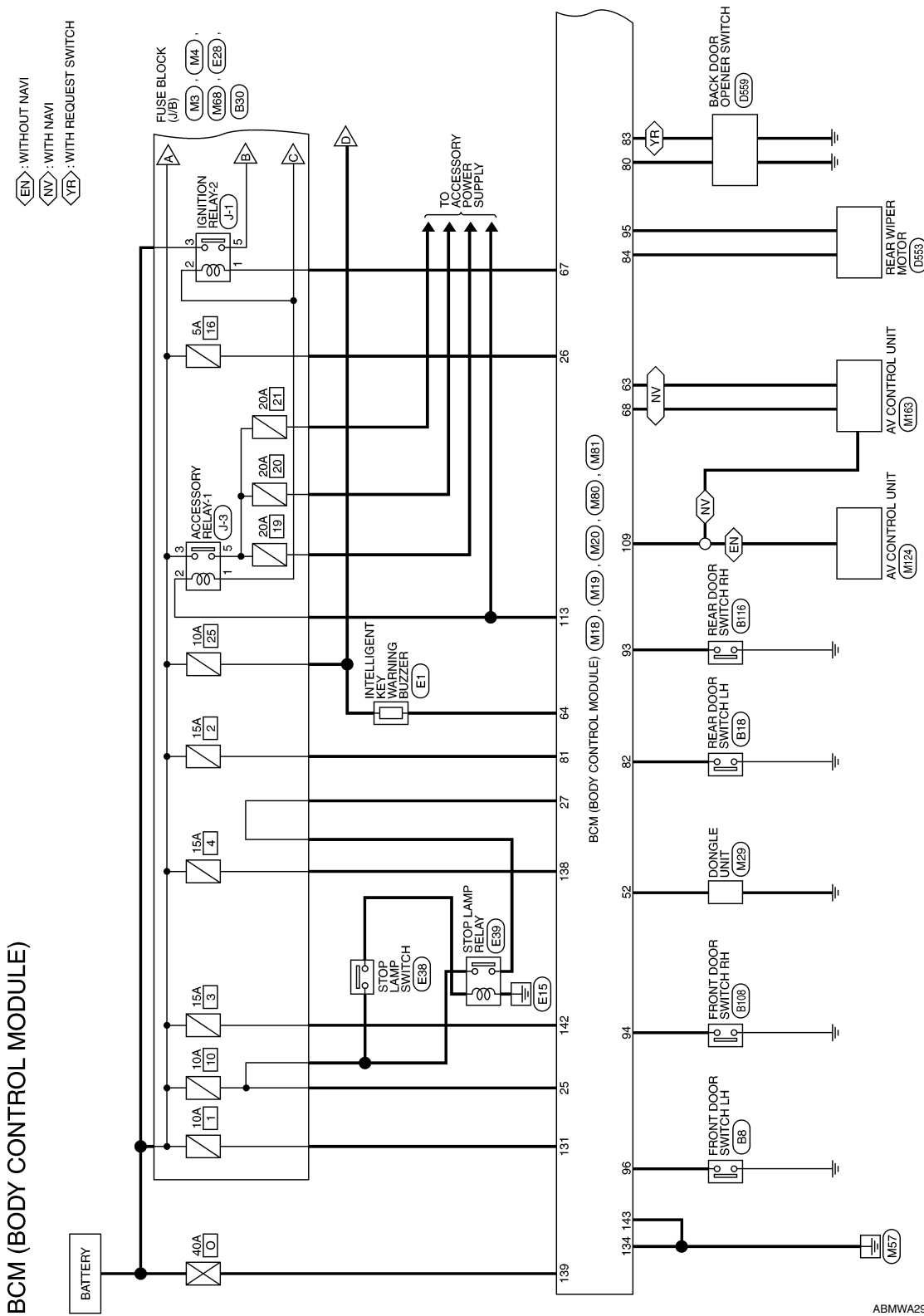
CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1730: FLAT TIRE FL	—	—	×	<a href="#">WT-46, "DTC Logic"</a>
C1731: FLAT TIRE FR	—	—	×	
C1732: FLAT TIRE RR	—	—	×	
C1733: FLAT TIRE RL	—	—	×	
C1734: CONTROL UNIT	—	—	×	<a href="#">WT-48, "DTC Logic"</a>
C1735: IGNTION SIGNAL	—	—	×	<a href="#">WT-50, "DTC Logic"</a>

# WIRING DIAGRAM

## BCM

### Wiring Diagram

INFOID:000000011154139

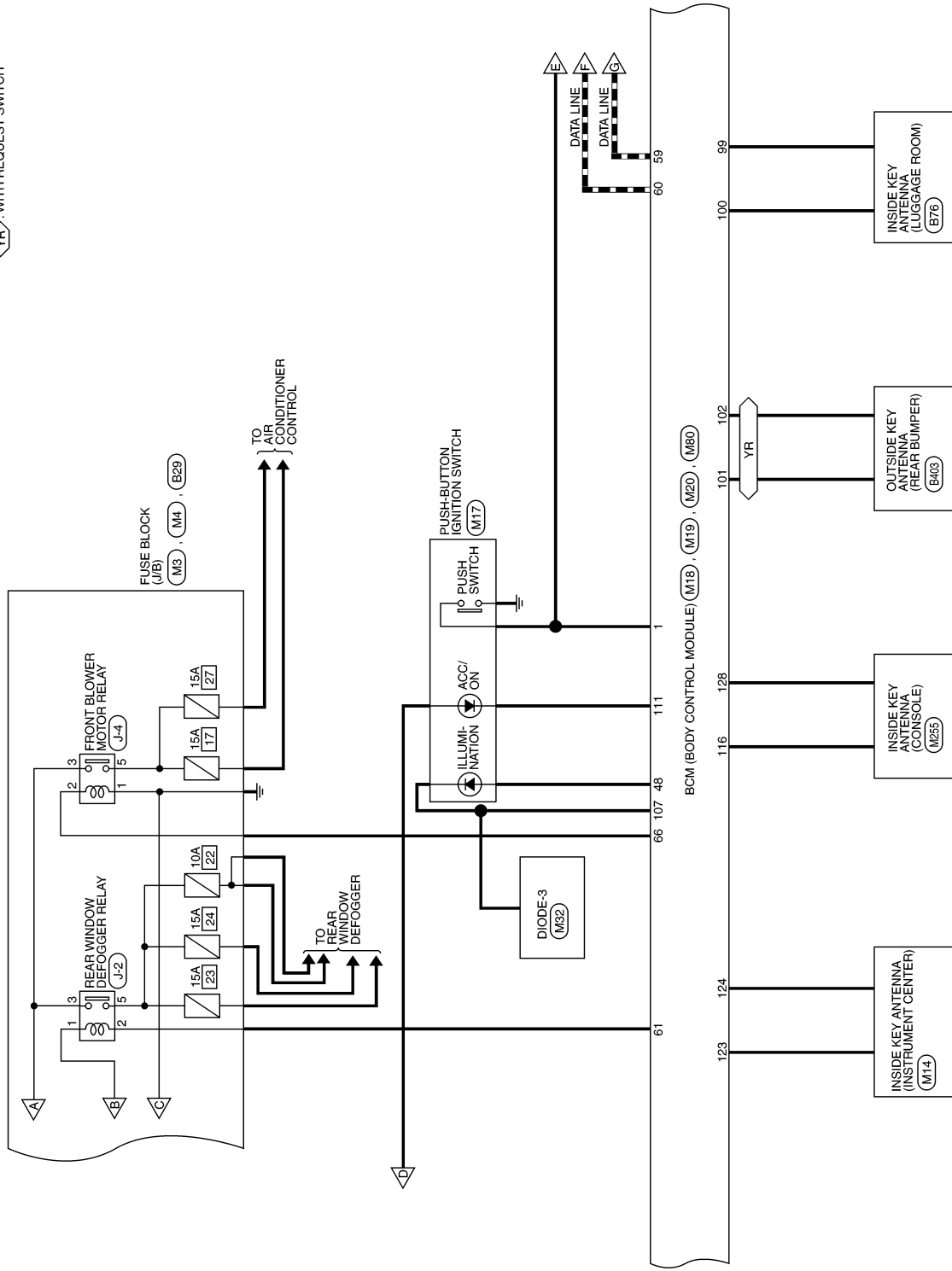


A  
B  
C  
D  
E  
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G  
H  
I  
J  
K  
L  
N  
O  
P

BCS

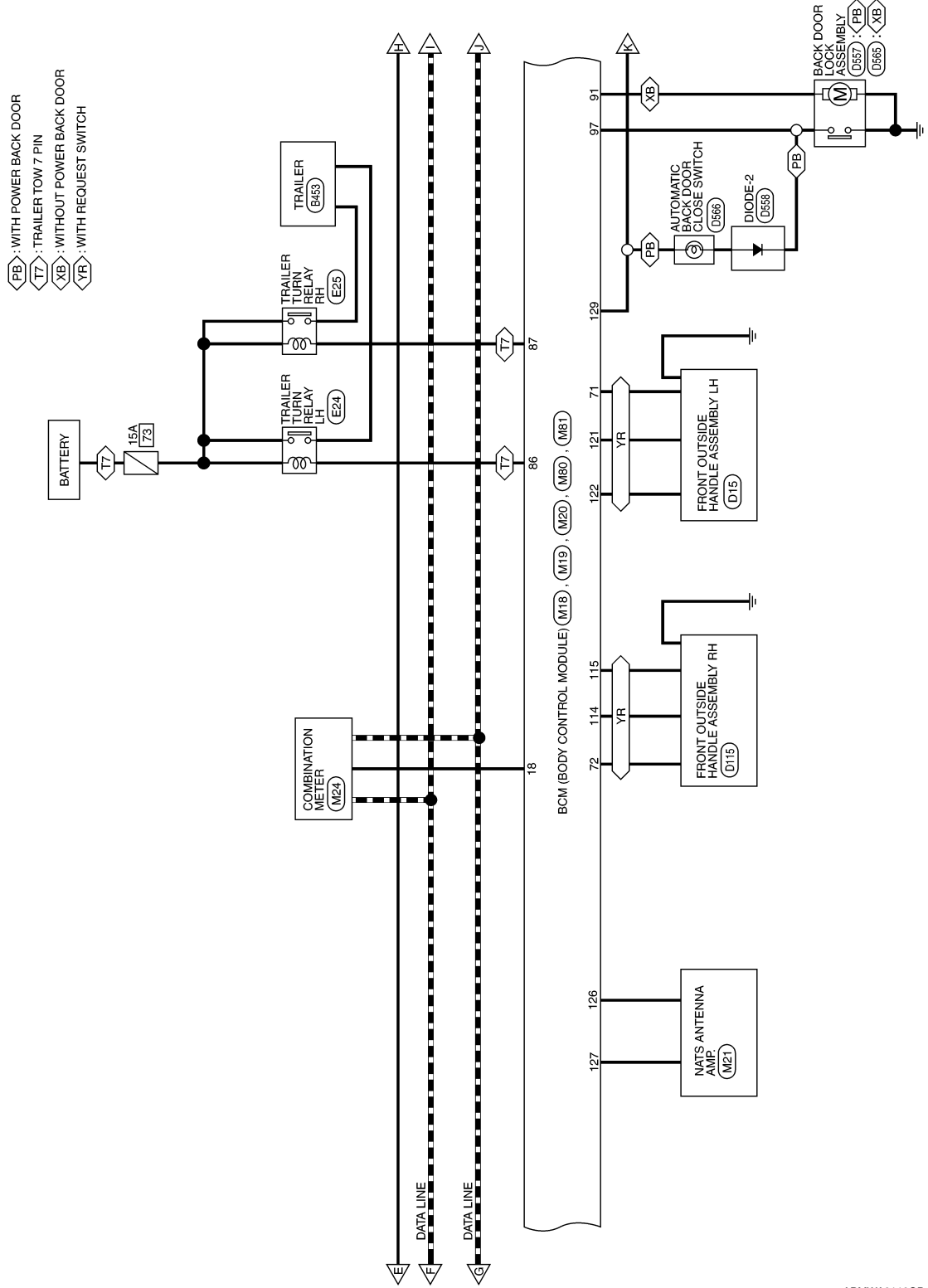
ABMWA2992GB

YR : WITH REQUEST SWITCH



ABMWA2111GB



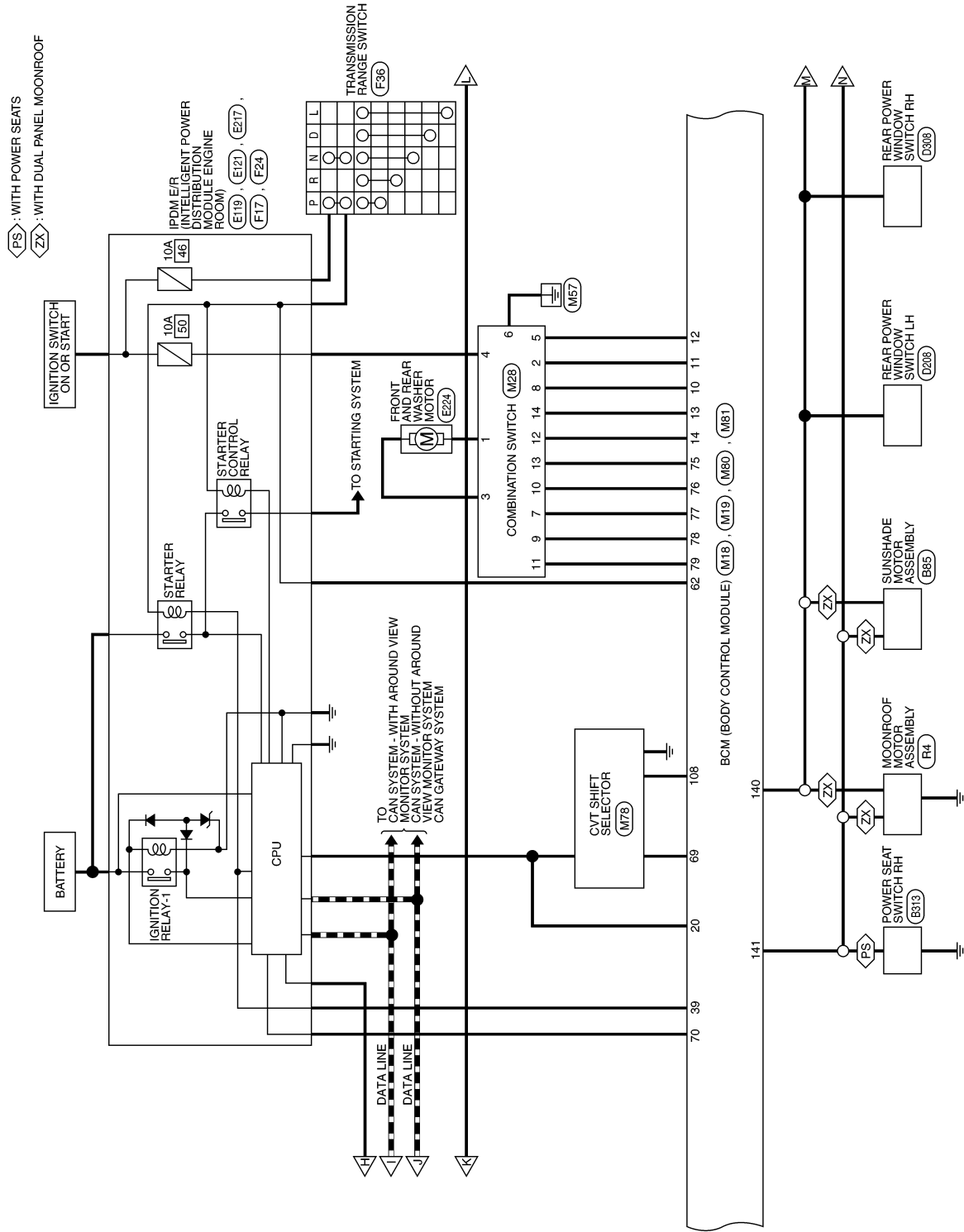


(PB) : WITH POWER BACK DOOR  
 (T7) : TRAILER TOW 7 PIN  
 (XB) : WITHOUT POWER BACK DOOR  
 (YR) : WITH REQUEST SWITCH

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P

BCS

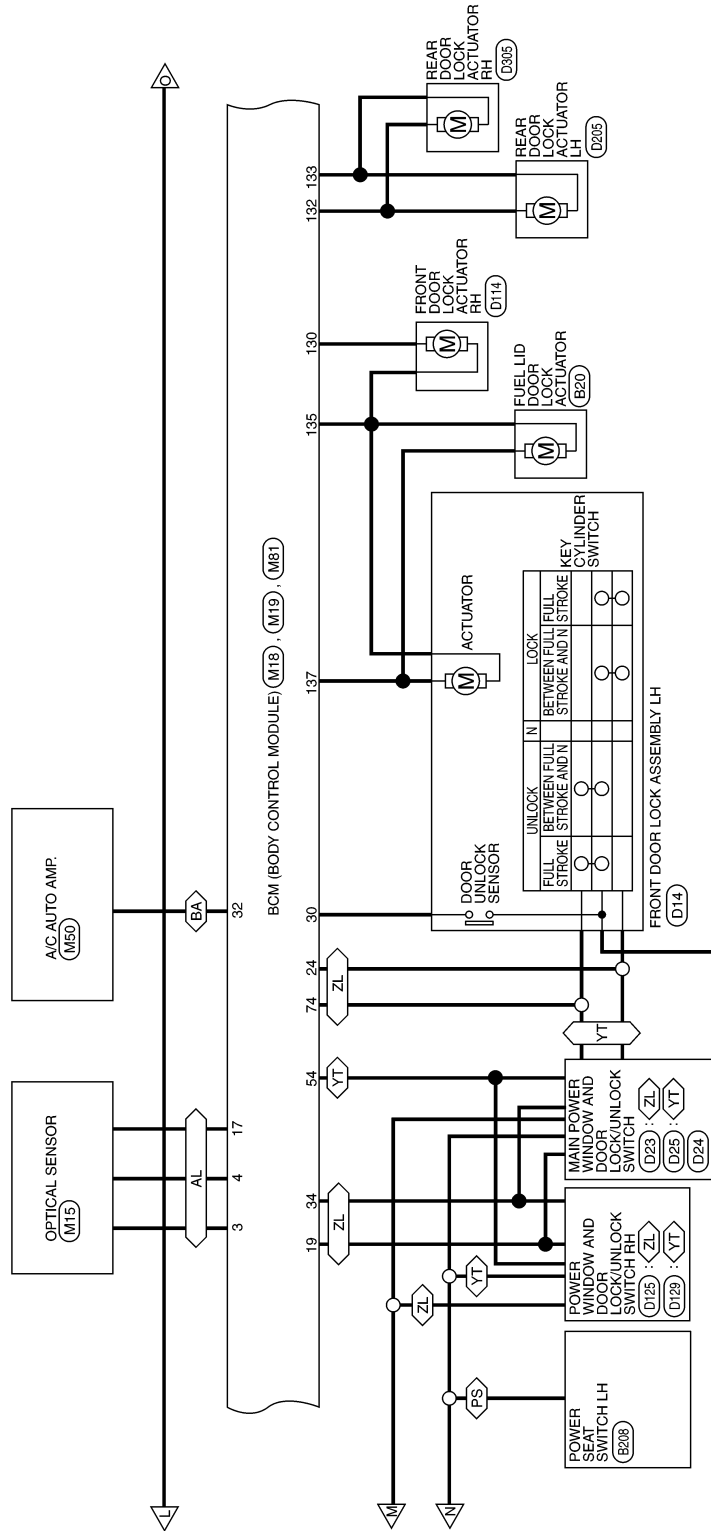
ABMWA2112GB



ABMWA2993GB

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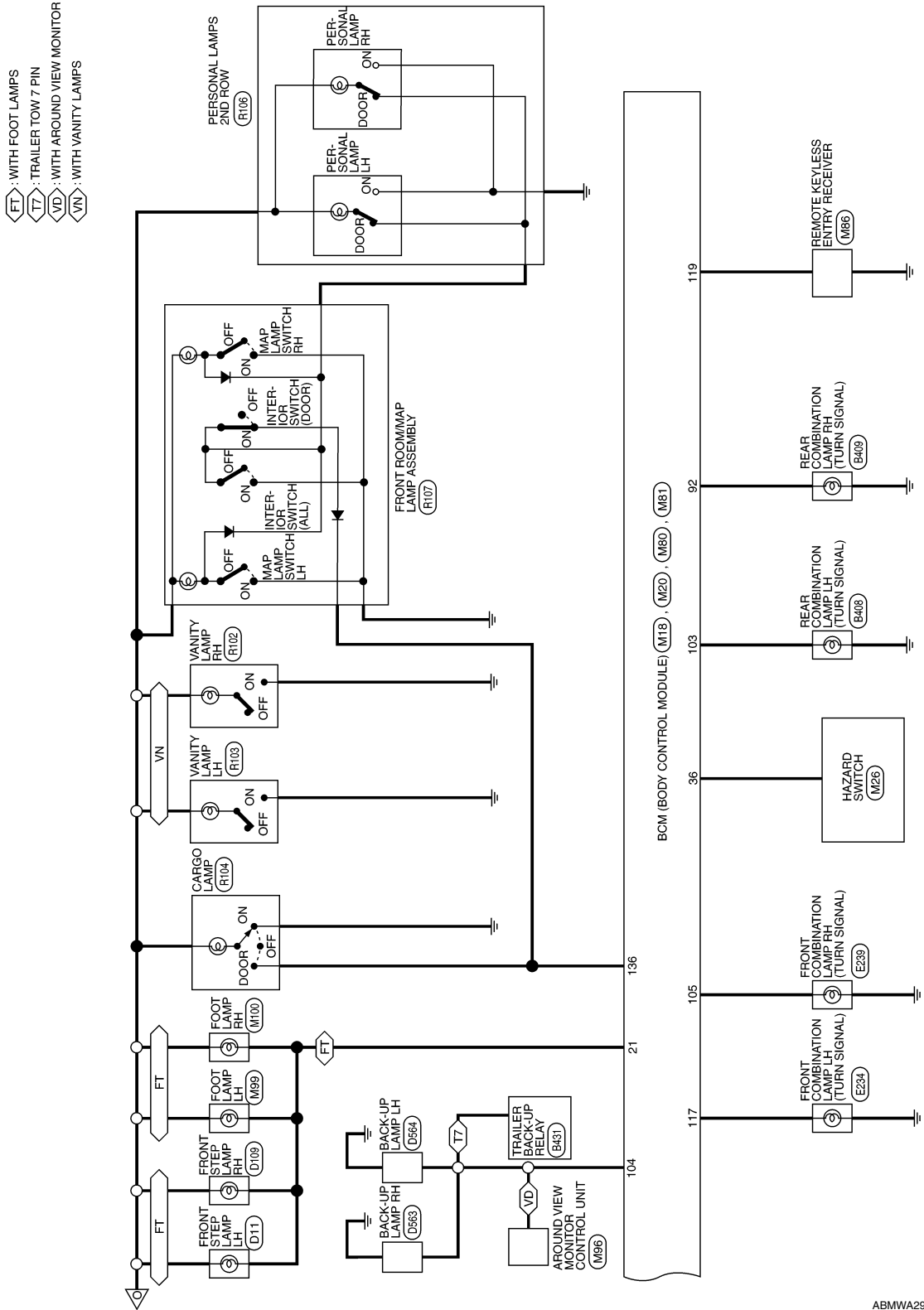
- ◊AL◊ : WITH AUTO LIGHT SYSTEM
- ◊BA◊ : WITH BASE AUDIO SYSTEM
- ◊PS◊ : WITH POWER SEATS
- ◊YT◊ : WITH LEFT AND RIGHT FRONT AUTO UP/DOWN
- ◊ZL◊ : WITH LEFT FRONT ONLY AUTO DOWN



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ABMWA2994GB

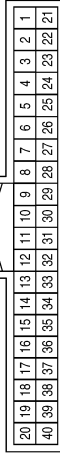
< WIRING DIAGRAM >



ABMWA2995GB

BCM (BODY CONTROL SYSTEM) CONNECTORS

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
1	G	ENG START SW
2	-	-
3	W	A/L POWER SUPPLY 5V
4	G	A/L SIGNAL
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	W	COMBI SW IN 5
11	BG	COMBI SW IN 4
12	R	COMBI SW IN 3
13	G	COMBI SW IN 2
14	P	COMBI SW IN 1
15	-	-

Terminal No.	Color of Wire	Signal Name
16	-	-
17	R	GND RF A/L
18	V	SECURITY INDICATOR
19	Y	CENTRAL DOOR LOCK SW
20	W	SHIFT P
21	W	STEP LAMP CONT
22	-	-
23	-	-
24	SB	DOOR KEY/C UNLOCK SW
25	W	BRAKE SW FUSE
26	L	SHORTING INPUT
27	G	BRAKE SW LAMP
28	-	-
29	-	-
30	P	DR DOOR LOCK STATUS
31	-	-
32	R	RR DEF SW
33	-	-
34	BR	CENTRAL DOOR UNLOCK SW
35	-	-
36	W	HAZARD SW
37	-	-
38	-	-
39	G	SHIFT N/P
40	-	-

A  
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BCS

AAMIA1242GB

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61

Terminal No.	Color of Wire	Signal Name
41	-	-
42	-	-
43	-	-
44	-	-
45	-	-
46	-	-
47	-	-
48	R	HIGH SIDE START SW LED

Terminal No.	Color of Wire	Signal Name
49	-	-
50	-	-
51	-	-
52	W	AUDIO DONGLE
53	-	-
54	W	PW LIN/COM
55	-	-
56	-	-
57	-	-
58	-	-
59	P	CAN-L
60	L	CAN-H
61	BG	REAR DEFOGGER RELAY OUT
62	W	STARTER RELAY OUT
63	BG	I-KEY LINK SIGNAL
64	P	BUZZER OUT

Terminal No.	Color of Wire	Signal Name
65	-	-
66	W	BLOWER FAN RELAY OUT
67	G	IGN ELEC RELAY OUT 2
68	P	MR OUTPUT
69	G	AT DEVICE OUT
70	P	IGN USM OUT 1
71	R	DR REQUEST SW
72	G	AS REQUEST SW
73	-	-
74	BR	DOOR KEY/C LOCK SW
75	BG	COMBI SW OUT 5
76	P	COMBI SW OUT 4
77	R	COMBI SW OUT 3
78	G	COMBI SW OUT 2
79	W	COMBI SW OUT 1
80	R	BACK DOOR OPEN SW

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GRAY



92	91	90	89	88	87	86	85	84	83	82	81
104	103	102	101	100	99	98	97	96	95	94	93

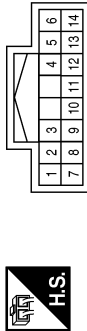
Terminal No.	Color of Wire	Signal Name
81	L	BAT REAR WIPER FUSE
82	W	RL DOOR SW

Terminal No.	Color of Wire	Signal Name
83	BG	BACK DOOR REQUEST SW
84	BR	R WIPER AUTOSTOP SW
85	-	-
86	R	TRAILER FLASHER RL
87	P	TRAILER FLASHER RR
88	-	-
89	-	-
90	-	-
91	BR	BACK DOOR OPEN OUT
92	R	RR FLASHER
93	R	RR DOOR SW

Terminal No.	Color of Wire	Signal Name
94	G	AS DOOR SW
95	V	REAR WIPER OUT
96	BG	DR DOOR SW
97	W	BACK DOOR SW
98	-	-
99	P	ROOM ANT 3 B
100	W	ROOM ANT 3 A
101	R	REAR BUMPER ANT B
102	G	REAR BUMPER ANT A
103	BG	RL FLASHER
104	LG	REVERSE LAMP OUT

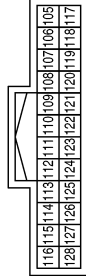
ABMIA6909GB

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	BG	-
3	Y	-
4	Y	-
5	R	-
6	B	-
7	R	-
8	W	-
9	G	-
10	P	-
11	W	-
12	P	-
13	BG	-
14	G	-

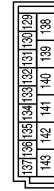
Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
105	LG	FR FLASHER
106	-	-
107	W	LOW SIDE START SW LED
108	GR	SHIFT LOCK SOLENOID OUT
109	R	REVERSE SIGNAL
110	-	-
111	P	ACC LED
112	-	-

Terminal No.	Color of Wire	Signal Name
113	L	ACC RELAY OUT
114	W	AS DOOR ANT A
115	BG	AS DOOR ANT B
116	W	ROOM ANT 2 A
117	SB	FL FLASHER
118	-	-
119	R	RF NIMOCO
120	-	-
121	G	DR DOOR ANT B
122	P	DR DOOR ANT A
123	W	ROOM ANT 1 A
124	G	ROOM ANT 1 B
125	-	-
126	P	IMMO START BUTTON ANT B
127	BG	IMMO START BUTTON ANT A
128	R	ROOM ANT 2 B

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
129	SB	BATTERY SAVER OUT

Terminal No.	Color of Wire	Signal Name
130	LG	DOOR UNLOCK AS
131	W	BAT BCM FUSE
132	BR	DOOR LOCK RR/RL
133	Y	DOOR UNLOCK RR/RL
134	B	GND 2
135	L	DOOR LOCK DR/AS/FL
136	LG	ROOM LAMP CONT

Terminal No.	Color of Wire	Signal Name
137	V	DOOR UNLOCK DR/FL
138	V	BAT REAR DOOR
139	W	BAT POWER F/L
140	BR	P/W POWER SUPPLY IGN
141	Y	P/W POWER SUPPLY BAT
142	Y	BAT FRONT DOOR
143	B	GND 1

ABMIA4876GB

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



## BASIC INSPECTION

### INSPECTION AND ADJUSTMENT

#### ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)

#### ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) : Description

INFOID:000000011154140

##### BEFORE REPLACEMENT

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

**NOTE:**

If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replacing BCM.

##### AFTER REPLACEMENT

**CAUTION:**

- When replacing BCM, you must perform "After Replace ECU" with CONSULT.
- Complete the procedure of "After Replace ECU" in order.
- If you set incorrect "After Replace ECU", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- When replacing BCM, perform the system initialization (NATS).

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

INFOID:000000011154141

### 1. SAVING VEHICLE SPECIFICATION

**CONSULT**

Enter "Re/Programming, Configuration" and perform "Before Replace ECU" to save or print current vehicle specification.

**NOTE:**

If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replacing BCM.

>> GO TO 2.

### 2. REPLACE BCM

Replace BCM. Refer to [BCS-80. "Removal and Installation"](#).

>> GO TO 3.

### 3. WRITING VEHICLE SPECIFICATION

**CONSULT**

1. Enter "Re/Programming, Configuration".
2. If "Before Replace ECU" operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press "Confirm" to write vehicle specification. Refer to [BCS-65. "CONFIGURATION \(BCM\) : Work Procedure"](#).
3. If "Before Replace ECU" operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to [BCS-65. "CONFIGURATION \(BCM\) : Work Procedure"](#).

>> GO TO 4.

### 4. INITIALIZE BCM (NATS)

Perform BCM initialization. (NATS)

>> GO TO 5.



## 5. REGISTER INTELLIGENT KEYS

For initialization and registration of Intelligent Keys, refer to CONSULT Immobilizer mode and follow the on-screen instructions.

>> Work End.

## CONFIGURATION (BCM)

### CONFIGURATION (BCM) : Description

INFOID:0000000011154142

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

Function	Description
"Before Replace ECU"	<ul style="list-style-type: none"> <li>• Reads the vehicle configuration of current BCM.</li> <li>• Saves the read vehicle configuration.</li> </ul>
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

**CAUTION:**

- **When replacing BCM, you must perform "Select Saved Data List" or "After Replace ECU" with CONSULT.**
- **Complete the procedure of "Select Saved Data List" or "After Replace ECU" in order.**
- **If you set incorrect "Select Saved Data List" or "After Replace ECU", incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**
- **Never perform "Select Saved Data List" or "After Replace ECU" except for new BCM.**

### CONFIGURATION (BCM) : Work Procedure

INFOID:0000000011154143

#### 1. WRITING MODE SELECTION

 CONSULT

Select "Reprogramming, Configuration" of BCM.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

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

 CONSULT

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

>> Work End.

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

 CONSULT

1. Select "After Replace ECU" or "Manual Configuration".
2. Identify the correct model and configuration list. Refer to [BCS-66, "CONFIGURATION \(BCM\) : Configuration List"](#).
3. Confirm and/or change setting value for each item.

**CAUTION:**

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

4. Select "Next".

**CAUTION:**

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

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BCS

# INSPECTION AND ADJUSTMENT

[BCM]

< BASIC INSPECTION >

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

>> GO TO 4.

## 4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> Work End.

## CONFIGURATION (BCM) : Configuration List

INFOID:0000000011154144

### CAUTION:

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

SETTING ITEM		NOTE
Items	Setting value	
AUTO LIGHT	WITHOUT ⇔ MODE3 ⇔ MODE4	<ul style="list-style-type: none"> <li>• WITHOUT: Without auto light</li> <li>• MODE3: Canada auto light w/o enhanced</li> <li>• MODE4: USA auto light w/enhanced</li> </ul>
WELCOME LIGHT	WITH ⇔ WITHOUT	<ul style="list-style-type: none"> <li>• WITH: Welcome light (interior lamp) applied</li> <li>• WITHOUT: Welcome light (interior lamp) not applied</li> </ul>
TIRE PRESSURE	230 kPa ⇔ 240 kPa	<ul style="list-style-type: none"> <li>• 230 kPa: TPMS threshold depends on tire size 18"</li> <li>• 240 kPa: TPMS threshold depends on tire size 20"</li> </ul>
KEYFOB TYPE	ENST/LCK/UNLCK/ALRM ⇔ ENST/LCK/UNLCK/BD/ALRM ⇔ LCK/UNLCK/PBD/ALRM ⇔ LCK/UNLCK/ALRM	<ul style="list-style-type: none"> <li>• ENST/LCK/UNLCK/ALRM: 4 button (w/engine start)</li> <li>• ENST/LCK/UNLCK/BD/ALRM: 5 button (w/engine start)</li> <li>• LCK/UNLCK/PBD/ALRM: 4 button (w/o engine start)</li> <li>• LCK/UNLCK/ALRM: 3 button (Lock/Unlock/Panic)</li> </ul>
CAN ERR DETECT	WITH ⇔ WITHOUT	<ul style="list-style-type: none"> <li>• WITH: With ABD</li> <li>• WITHOUT: Without ABD</li> </ul>
TIRE PRESSURE WARNING	MODE1 ⇔ MODE3	<ul style="list-style-type: none"> <li>• MODE1: Warning (S only)</li> <li>• MODE3: Location and warning (S+)</li> </ul>

# TRANSIT MODE CANCEL OPERATION

< BASIC INSPECTION >

[BCM]

## TRANSIT MODE CANCEL OPERATION

### Description

INFOID:0000000011154145

- BCM is in transit mode if turn signal indicator on combination meter turns ON for 1 minute when ignition switch is turned from OFF to ON.
- In this case, cancel operation must be performed.

#### NOTE:

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

### Work Procedure

INFOID:0000000011154146

#### 1. TRANSIT MODE CANCEL OPERATION

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

>> GO TO 2.

#### 2. TRANSIT MODE CANCEL CHECK

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

>> WORK END

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# U1000 CAN COMM CIRCUIT

[BCM]

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM CIRCUIT

#### Description

INFOID:0000000011154147

Refer to [LAN-12, "CAN COMMUNICATION SYSTEM : System Description"](#).

#### DTC Logic

INFOID:0000000011154148

#### DTC DETECTION LOGIC

##### NOTE:

U1000 can be set if a module harness was disconnected and reconnected, perhaps during a repair. Confirm that there are actual CAN diagnostic symptoms and a present DTC by performing the Self Diagnostic Result procedure.

CONSULT Display	DTC Detection Condition	Possible cause
CAN COMM CIRCUIT [U1000]	When any listed module cannot communicate with CAN communication signal continuously for 2 seconds or more with ignition switch ON	In CAN communication system, any item (or items) of the following listed below is malfunctioning. <ul style="list-style-type: none"><li>• Transmission</li><li>• Receiving (ECM)</li><li>• Receiving (VDC/TCS/ABS)</li><li>• Receiving (METER/M&amp;A)</li><li>• Receiving (TCM)</li><li>• Receiving (IPDM E/R)</li></ul>

#### Diagnosis Procedure

INFOID:0000000011154149

### 1. PERFORM SELF DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 second or more.
2. Check "SELF- DIAG RESULTS".

Is "CAN COMM CIRCUIT" displayed?

- YES >> Perform CAN Diagnosis as described in DIAGNOSIS section of CONSULT Operation Manual.  
NO >> Refer to [GI-47, "Intermittent Incident"](#).

# U1010 CONTROL UNIT (CAN)

[BCM]

< DTC/CIRCUIT DIAGNOSIS >

## U1010 CONTROL UNIT (CAN)

### DTC Logic

INFOID:0000000011154150

### DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1010]	BCM detected internal CAN communication circuit malfunction.	BCM

### Diagnosis Procedure

INFOID:0000000011154151

#### 1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to [BCS-80. "Removal and Installation"](#).

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# U0415 VEHICLE SPEED SIG

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

## U0415 VEHICLE SPEED SIG

### Description

INFOID:0000000011154152

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

### DTC Logic

INFOID:0000000011154153

### DTC DETECTION LOGIC

#### NOTE:

- If DTC U0415 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to [BCS-68, "DTC Logic"](#).
- If DTC U0415 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to [BCS-69, "DTC Logic"](#).

CONSULT Display	DTC Detection Condition	Possible Cause
VEHICLE SPEED SIG [U0415]	When the vehicle speed signal received from the ABS actuator and electric unit (control unit) remains abnormal for 2 seconds or more.	<ul style="list-style-type: none"><li>• ABS system</li><li>• Combination meter system</li><li>• CAN bus harness</li></ul>

### DTC CONFIRMATION PROCEDURE

#### 1. DTC CONFIRMATION

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

#### Is any DTC detected?

- YES >> Refer to [BCS-52, "DTC Index"](#).  
NO >> Inspection End.

### Diagnosis Procedure

INFOID:0000000011154154

#### 1. ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of ABS with CONSULT. Refer to [BRC-36, "CONSULT Function"](#) (Type 1) or [BRC-165, "CONSULT Function"](#) (Type 2).

#### Is any DTC detected?

- YES >> Perform the trouble diagnosis related to the detected DTC. Refer to [BRC-47, "DTC Index"](#) (Type 1) or [BRC-176, "DTC Index"](#) (Type 2).  
NO >> GO TO 2.

#### 2. CHECK ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) POWER SUPPLY AND GROUND CIRCUIT

Check ABS actuator and electric unit (control unit) power and ground. Refer to [BRC-72, "DTC Logic"](#) (Type 1) or [BRC-201, "Diagnosis Procedure"](#) (Type 2).

#### Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Repair or replace harness or connectors.

#### 3. COMBINATION METER SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of METER M&A with CONSULT. Refer to [MWI-18, "CONSULT Function \(METER/M&A\)"](#).

#### Is any DTC detected?

- YES >> Perform the trouble diagnosis related to the detected DTC. Refer to [MWI-29, "DTC Index"](#).  
NO >> Refer to [GI-47, "Intermittent Incident"](#).

# B2562 LOW VOLTAGE

[BCM]

< DTC/CIRCUIT DIAGNOSIS >

## B2562 LOW VOLTAGE

### DTC Logic

INFOID:0000000011154155

### DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible cause
LOW VOLTAGE [B2562]	When the power supply voltage to BCM remains less than 8.8V for 120 seconds or more	<ul style="list-style-type: none"><li>• Harness or connector (power supply circuit)</li><li>• Vehicle battery</li></ul>

### 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 120 seconds or more.

#### Is any DTC detected?

- YES >> Refer to [BCS-71, "Diagnosis Procedure"](#).  
NO >> Inspection End.

### Diagnosis Procedure

INFOID:0000000011154156

#### 1. CHECK BATTERY VOLTAGE

Check battery voltage.

#### Is battery voltage less than 8.8V?

- YES >> Charge battery and retest. Refer to [CHG-14, "Work Flow \(With EXP-800 NI or GR8-1200 NI\)"](#) or [CHG-17, "Work Flow \(Without EXP-800 NI or GR8-1200 NI\)"](#).  
NO >> GO TO 2.

#### 2. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit. Refer to [BCS-74, "Diagnosis Procedure"](#).

#### Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Repair or replace harness or connectors.

#### 3. BCM SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of BCM with CONSULT. Refer to [BCS-24, "BCM : CONSULT Function \(BCM - BCM\)"](#).

#### Is DTC B2562 CRNT?

- YES >> Replace BCM. Refer to [BCS-80, "Removal and Installation"](#).  
NO >> Refer to [GI-47, "Intermittent Incident"](#).

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# B259A ROOM LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

## B259A ROOM LAMP FUSE

### DTC Logic

INFOID:0000000011154157

### DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible cause
ROOM LAMP FUSE [B259A]	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.	Harness or connector (power supply circuit)

### DTC CONFIRMATION PROCEDURE

#### 1. DTC CONFIRMATION

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

#### Is any DTC detected?

- YES >> Refer to [BCS-72, "Diagnosis Procedure"](#).  
NO >> Inspection End.

### Diagnosis Procedure

INFOID:0000000011154158

Regarding Wiring Diagram information, refer to [BCS-55, "Wiring Diagram"](#).

#### 1. CHECK FUSE

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
131	BCM battery fuse	1 (10A)

#### Is the fuse or fusible link blown?

- YES >> Replace the blown fuse after repairing the affected circuit.  
NO >> GO TO 2.

#### 2. CHECK BAT BCM FUSE CIRCUIT

1. Disconnect BCM connector M81.
2. Check voltage between BCM connector M81 terminal 131 and ground.

BCM		Ground	Voltage (Approx.)
Connector	Terminal		
M81	131	—	Battery voltage

#### Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-80, "Removal and Installation"](#).  
NO >> Repair or replace harness or connectors. GO TO 3.

#### 3. CHECK BATTERY SAVER OUTPUT CIRCUIT FOR SHORT TO GROUND

1. Turn ignition OFF.
2. Check continuity between BCM connector M81 terminal 129 and ground.



# B259A ROOM LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

BCM		Ground	Continuity
Connector	Terminal		
M81	129	—	No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-80. "Removal and Installation"](#).

NO >> Repair or replace harness or connectors.

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# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

## POWER SUPPLY AND GROUND CIRCUIT

### Diagnosis Procedure

INFOID:0000000011154159

Regarding Wiring Diagram information, refer to [BCS-55. "Wiring Diagram"](#).

### 1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
139	Fusible link battery power	O (40A)
131	BCM battery fuse	1 (10A)

Is the fuse or fusible link blown?

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

NO >> GO TO 2

### 2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M81.

2. Check voltage between BCM connector M81 terminals 131, 139 and ground.

BCM		Ground	Voltage (Approx.)
Connector	Terminal		
M81	131	—	Battery voltage
	139		

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness or connectors.

### 3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M81 terminals 134, 143 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M81	134	—	Yes
	143		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

# COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

## COMBINATION SWITCH INPUT CIRCUIT

### Diagnosis Procedure

INFOID:000000011154160

Regarding Wiring Diagram information, refer to [BCS-55, "Wiring Diagram"](#).

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

1. Turn ignition switch OFF.
2. Disconnect BCM connector M19 and combination switch connector.
3. Check continuity between BCM connector M19 and combination switch connector.

Signal	BCM		Combination switch		Continuity
	Connector	Terminal	Connector	Terminal	
INPUT 1	M19	79	M28	11	Yes
INPUT 2		78		9	
INPUT 3		77		7	
INPUT 4		76		10	
INPUT 5		75		13	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

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

Check continuity between BCM connector M19 and ground.

Signal	BCM		Ground	Continuity
	Connector	Terminal		
INPUT 1	M19	79	Ground	No
INPUT 2		78		
INPUT 3		77		
INPUT 4		76		
INPUT 5		75		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

### 3. CHECK BCM OUTPUT VOLTAGE

1. Connect BCM connector M19 and combination switch connector.
2. Turn ignition switch ON.
3. Check voltage between BCM connector M19 and ground.

Signal	BCM		Ground	Voltage
	Connector	Terminal		
INPUT 1	M19	79	—	Refer to <a href="#">BCS-30, "Reference Value"</a> .
INPUT 2		78		
INPUT 3		77		
INPUT 4		76		
INPUT 5		75		

## COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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Is the inspection result normal?

- YES >> Replace the combination switch. Refer to [BCS-81, "Removal and Installation"](#).
- NO >> Replace BCM. Refer to [BCS-80, "Removal and Installation"](#).

# COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

## COMBINATION SWITCH OUTPUT CIRCUIT

### Diagnosis Procedure

INFOID:000000011154161

Regarding Wiring Diagram information, refer to [BCS-55, "Wiring Diagram"](#).

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

1. Turn ignition switch OFF.
2. Disconnect BCM connector M18 and combination switch connector.
3. Check continuity between BCM connector M18 and combination switch connector.

Signal	BCM		Combination switch		Continuity
	Connector	Terminal	Connector	Terminal	
OUTPUT 1	M18	14	M28	12	Yes
OUTPUT 2		13		14	
OUTPUT 3		12		5	
OUTPUT 4		11		2	
OUTPUT 5		10		8	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

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

Check continuity between BCM connector M18 and ground.

Signal	BCM		Ground	Continuity
	Connector	Terminal		
OUTPUT 1	M18	14	Ground	No
OUTPUT 2		13		
OUTPUT 3		12		
OUTPUT 4		11		
OUTPUT 5		10		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

### 3. CHECK BCM INPUT VOLTAGE

1. Connect BCM connector M18 and combination switch connector.
2. Turn ignition switch ON.
3. Check voltage between BCM connector M18 and ground.

Signal	BCM		Ground	Voltage
	Connector	Terminal		
OUTPUT 1	M18	14	—	Refer to <a href="#">BCS-30, "Reference Value"</a> .
OUTPUT 2		13		
OUTPUT 3		12		
OUTPUT 4		11		
OUTPUT 5		10		

## COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-80. "Removal and Installation"](#).

NO >> Replace the combination switch. Refer to [BCS-81. "Removal and Installation"](#).

# COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BCM]

## SYMPTOM DIAGNOSIS

### COMBINATION SWITCH SYSTEM SYMPTOMS

#### Symptom Table

INFOID:0000000011154162

1. Perform the data monitor of CONSULT to check for any malfunctioning item.
2. Check the malfunction combinations.

Malfunction item: x

Malfunction combination	Data monitor item																
	FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	INT VOLUME	RR WIPER ON	RR WIPER INT	RR WASHER SW	TURN SIGNAL R	TURN SIGNAL L	TAIL LAMP SW	HI BEAM SW	HEAD LAMP SW 1	HEAD LAMP SW 2	PASSING SW	AUTO LIGHT SW	FR FOG SW
A		x	x						x	x							
B	x			x									x		x		
C					x			x				x		x			
D					x		x				x					x	
E					x	x											x
F	x				x		x										
G			x		x	x		x									
H		x		x												x	
I										x				x	x		x
J									x		x	x	x				
K	All Items																
L	If only one item is detected or the item is not applicable to the combinations A to K																

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 input circuit applicable to the malfunctioning part. Refer to <a href="#">BCS-75, "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 output circuit applicable to the malfunctioning part. Refer to <a href="#">BCS-77, "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-80, "Removal and Installation"</a> .
L	Combination switch	Replace the combination switch. Refer to <a href="#">BCS-81, "Removal and Installation"</a> .

## REMOVAL AND INSTALLATION

### BCM (BODY CONTROL MODULE)

#### Removal and Installation

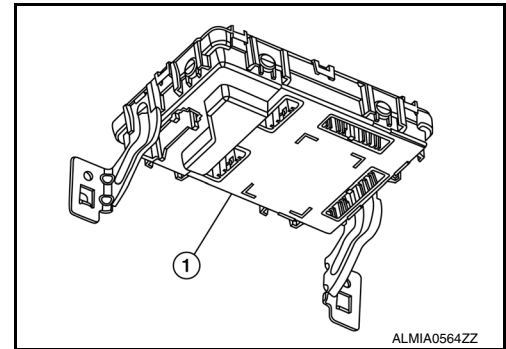
INFOID:000000011154163

**CAUTION:**

Before replacing the BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to [BCS-64, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\) : Description"](#).

#### REMOVAL

1. Disconnect the negative battery terminal. Refer to [PG-95, "Removal and Installation"](#).
2. Remove the combination meter. Refer to [MWI-85, "Removal and Installation"](#).
3. Remove the BCM bolts.
4. Disconnect the harness connectors from the BCM (1) and remove.



#### INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

- Be sure to perform "WRITE CONFIGURATION" when replacing BCM. Refer to [BCS-64, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\) : Work Procedure"](#).
- Be sure to perform the system initialization (NATS) when replacing BCM. Refer to [BCS-64, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\) : Work Procedure"](#).
- When replacing BCM, if new BCM does not come with keyfobs attached, all existing keyfobs must be re-registered.



# COMBINATION SWITCH

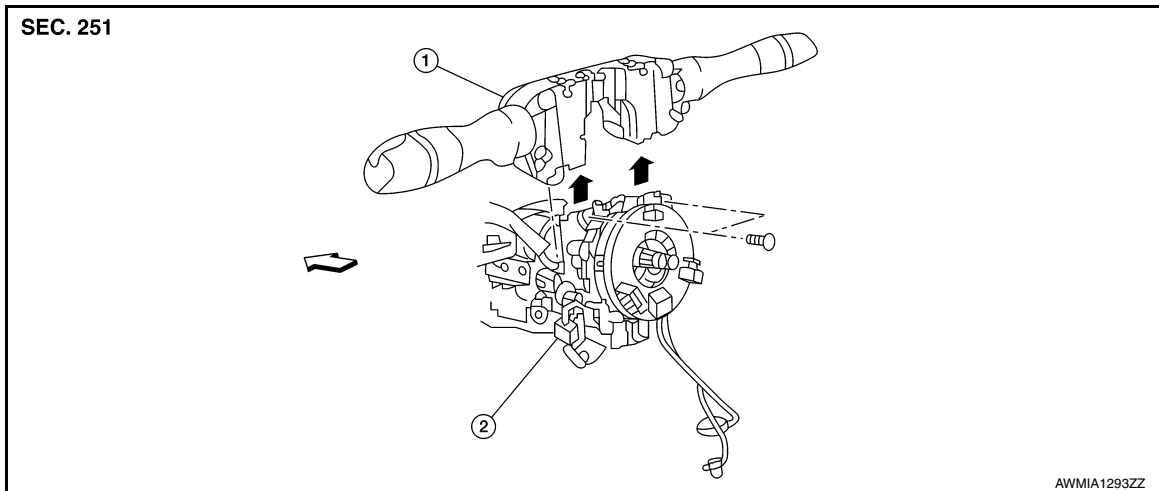
< REMOVAL AND INSTALLATION >

[BCM]

## COMBINATION SWITCH

### Exploded View

INFOID:000000011154164



1. Combination switch

2. Combination switch harness connector

← Front

### Removal and Installation

INFOID:000000011154165

#### REMOVAL

1. Remove the steering wheel. Refer to [ST-45, "Removal and Installation"](#).
2. Remove the steering column covers. Refer to [IP-17, "Removal and Installation"](#).
3. Remove the combination switch screws.
4. Disconnect the harness connector from the combination switch and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

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