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PRECAUTIONS

< PRECAUTION > [BCM]

PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. 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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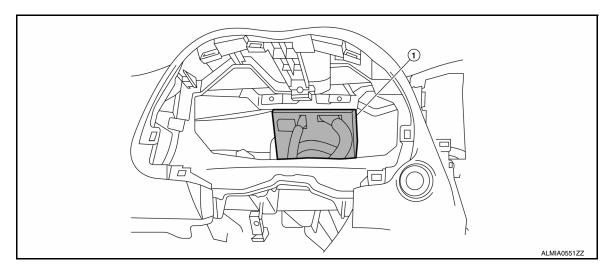
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SYSTEM DESCRIPTION

COMPONENT PARTS
BODY CONTROL SYSTEM

BODY CONTROL SYSTEM : Component Parts Location





BCM (view with combination meter removed)

COMBINATION SWITCH READING SYSTEM

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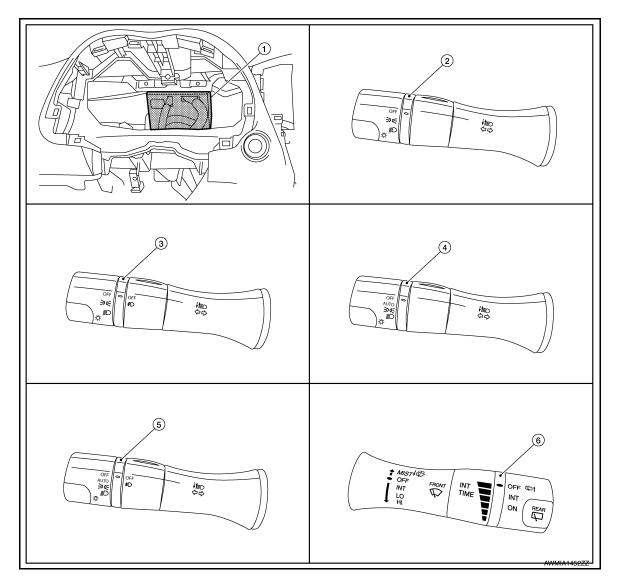
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COMBINATION SWITCH READING SYSTEM : Component Parts Location

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

POWER CONSUMPTION CONTROL SYSTEM

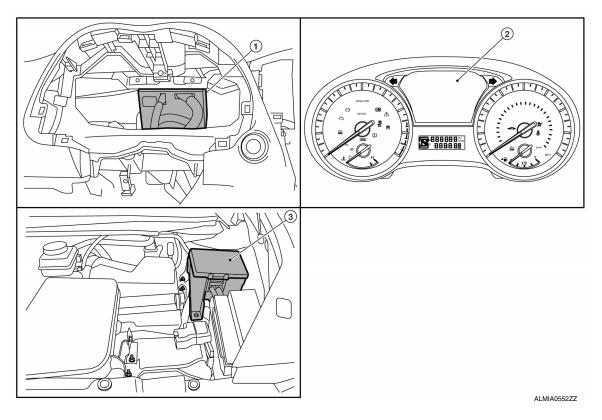
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POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location

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

SYSTEM

< SYSTEM DESCRIPTION > [BCM]

SYSTEM BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: System Description

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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	BCS-8, "COMBINATION SWITCH READING SYSTEM: System Description"
Signal buffer system	BCS-12, "SIGNAL BUFFER SYSTEM : System Description"
Power consumption control system	BCS-12, "POWER CONSUMPTION CONTROL SYSTEM: System Description"
Auto light system	EXL-9, "AUTO LIGHT SYSTEM : System Description"
Headlamp system	EXL-8, "HEADLAMP SYSTEM : System Description"
Daytime light system	EXL-10. "DAYTIME RUNNING LIGHT SYSTEM : System Description"
Front fog lamp system	EXL-11, "FRONT FOG LAMP SYSTEM: System Description"
Turn signal and hazard warning lamps system	EXL-10. "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Description"
Parking, license plate and tail lamps system	EXL-11, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Description"
Trailer tow system	EXL-12, "TRAILER TOW SYSTEM: System Description"
Exterior lamp battery saver system	EXL-8, "HEADLAMP SYSTEM: System Description"
Interior room lamp battery saver system	INL-6, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"
Interior room lamp control system	INL-6, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"
Front wiper and washer system	WW-9, "FRONT WIPER AND WASHER SYSTEM : System Description"
Rear wiper and washer system	WW-12, "REAR WIPER AND WASHER SYSTEM: System Description"
Warning chime system	WCS-6, "WARNING CHIME SYSTEM: System Description"
Door lock system	DLK-20, "System Description"
Back door open system	DLK-38, "System Description"
Nissan vehicle immobilizer system (NVIS)	SEC-12, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS: System Description"
Vehicle security system	DLIK OA IIIMADNING FUNGTION OO MAA DAARAKA II
Panic alarm	DLK-34, "WARNING FUNCTION : System Description"
Rear window defogger system	DEF-6, "System Description"

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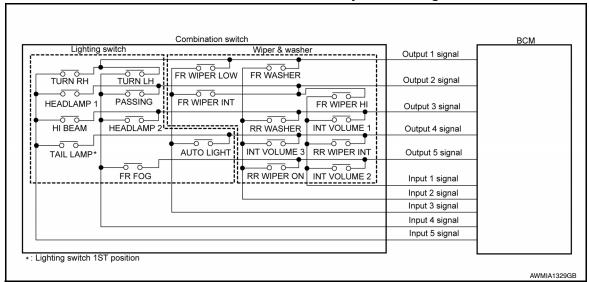
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System		Refer to			
Intelligent Key system/engine start system	Door lock function	DLK-23, "DOOR LOCK FUNCTION: System Description" (door request switch) DLK-23, "DOOR LOCK FUNCTION: System Description" (Intelligent Key)			
	Back door open function	DLK-26, "BACK DOOR OPEN FUNCTION: System Description" (back door request switch) DLK-26, "BACK DOOR OPEN FUNCTION: System Description" (Intelligent Key)			
	Warning function	DLK-34, "WARNING FUNCTION : System Description"			
	Key reminder function	DLK-30, "KEY REMINDER FUNCTION : System Description"			
	Engine start function	SEC-9, "INTELLIGENT KEY SYSTEM/ENGINE START FUNC-TION: System Description"			
Power window system		PWC-10, "System Description"			
RAP (retained accessory power) system		BCS-27, "RETAINED PWR : CONSULT Function (BCM - RE-TAINED 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

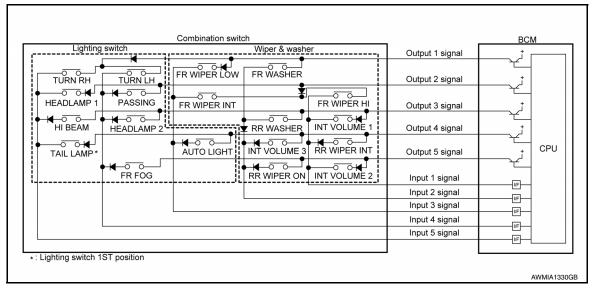
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OUTLINE

- 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



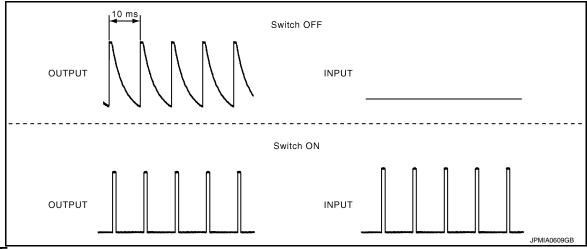
Combination switch INPUT-OUTPUT system list

Combination switch in	i Oi-Ooii Oi systeiii ii	ા			
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 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5, and outputs voltage waveform.
- The voltage waveform of OUTPUT corresponding to the formed circuit is input into the interface on INPUT side if any (1 or more) switches are ON.

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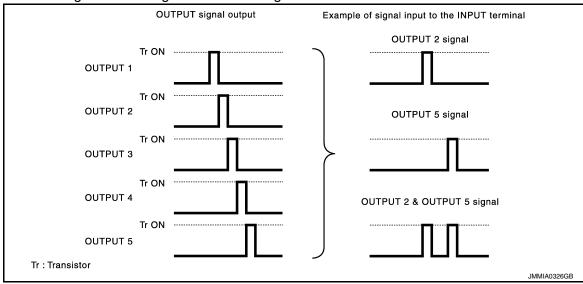
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- It reads this change of the voltage as the status signal of the combination switch.

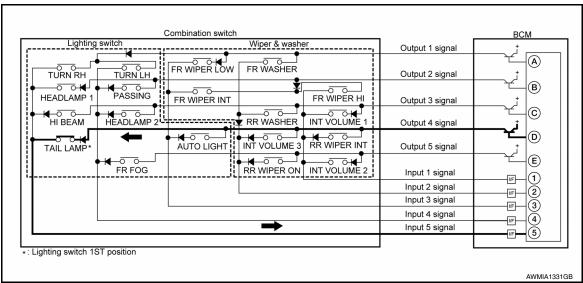


Operation Example

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

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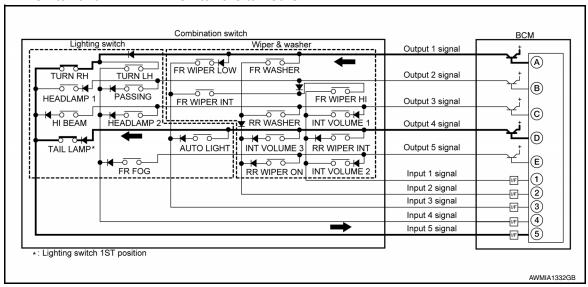
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• The circuits between OUTPUT 1 and INPUT 5 and between OUTPUT 4 and INPUT 5 are formed when the TURN RH switch and TAIL LAMP switch are turned ON.



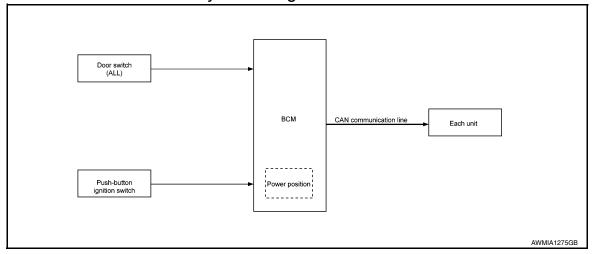
- BCM detects the combination switch status signal "5AD" when the signals of OUTPUT 1 and OUTPUT 4 are input to INPUT 5.
- BCM judges that the TURN RH switch and TAIL LAMP switch are ON when the signal "5AD" is detected.

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

SIGNAL BUFFER SYSTEM

SIGNAL BUFFER SYSTEM: System Diagram



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SIGNAL BUFFER SYSTEM: System Description

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OUTLINE

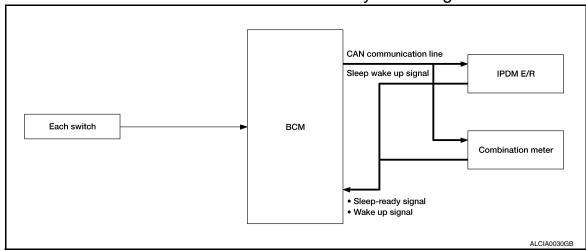
BCM has the signal transmission function that outputs/transmits each input/received signal to each unit. Signal transmission function list

Signal name	Input	Output	Description
 Ignition switch ON signal Ignition switch signal	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	Combination meter (CAN) IPDM E/R (CAN)	Inputs the door switch signal and transmits it via CAN communication.

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM: System Diagram

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POWER CONSUMPTION CONTROL SYSTEM: System Description

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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

< SYSTEM DESCRIPTION >

[BCM]

- 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
Receiving the sleep-ready signal (ready) from all units Ignition switch: OFF Vehicle security system alarm and panic alarm: No operation Warning lamp: Not operation Intelligent Key system buzzer: No operation Brake switch: OFF Turn signal indicator lamp: No operation Exterior lamp: OFF Door lock status: No change CONSULT communication status: No communication Meter display signal: Non-transmission Door switch status: No change Rear window defogger: OFF	Interior room lamp battery saver: Time out RAP system: OFF Power window switch communication: No transmission Push-button ignition switch (push switch) illumination: OFF NATS: No operation Remote keyless entry receiver communication status: No communication Tire pressure monitoring system: Stop

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				
	 Receiving the sleep-ready signal (Not-ready) from any units Push-button ignition switch (push switch): OFF→ON Hazard switch: OFF→ON 	L			
Door unlock sensor: OFF→ON, ON→OFF Parallelle assemble LU (leave display switch), Leals assemble to the control of the	PASSING switch: OFF→ON, ON→OFF TAIL LAMP switch: OFF→ON				
 Door lock assembly LH (key cylinder switch): Lock or unlock Door lock switch: OFF→ON 	 TAIL LAMP switch: OFF→ON Driver door switch: OFF→ON, ON→OFF 	BC			
Door unlock switch: OFF→ON	 Passenger door switch: OFF → ON, ON → OFF 				
 Back door opener switch: OFF→ON 	 Back door switch: OFF→ON, ON→OFF 				
 Power window serial link communication: Receiving 	 Driver door request switch: OFF→ON 	N			
 Remote keyless entry receiver: Receiving valid keyfob 	 Passenger door request switch: OFF→ON 				
	 Back door request switch: OFF→ON 				
	Stop lamp switch 2 signal: ON				
	Remote keyless entry receiver: Receiving valid keyfob	C			

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DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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

SYSTEM APPLICATION

BCM can perform the following functions.

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

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		Direct Diagnostic Mode						
System	Sub System	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)

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CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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.

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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)

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CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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
	MODE3	Rear defogger turns OFF after 1 minute.
SET R-DEF TIMER	MODE2	Rear defogger remains ON until turned OFF.
	MODE1*	Rear defogger turns OFF after 15 minutes.

^{*:} Initial setting

BUZZER

BUZZER: CONSULT Function (BCM - BUZZER)

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CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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.

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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:0000000009174876

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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.

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Support Item	Setting	Description
SCENARIO LIGHTING SETTING	On	NOTE:
	Off*	Do not use this function since interior room lamp control is changed.
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:0000000009174877

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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]	
TURN SIGNAL L [On/Off]	
TAIL LAMP SW [On/Off]	
HI BEAM SW [On/Off]	
HEAD LAMP SW 1 [On/Off]	Indicates condition of combination switch.
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]	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.
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

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

^{* :} Initial setting

WIPER

WIPER: CONSULT Function (BCM - WIPER)

INFOID:0000000009174878

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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.	
FR WIPER HI [On/Off]		
FR WIPER LOW [On/Off]		
FR WASHER SW [On/Off]	Indicates condition of wiper operation of combination switch.	
FR WIPER INT [On/Off]		
FR WIPER STOP [On/Off]	Indicates front wiper auto stop signal received from IPDM E/R on CAN communicatiline. Indicates condition of intermittent wiper operation of combination switch.	
INT VOLUME [1 – 7]		
RR WIPER ON [On/Off]		
RR WIPER INT [On/Off]	Indicates condition of rear wiper operation of combination switch.	
RR WASHER SW [On/Off]		
RR WIPER STOP [On/Off]	Indicates rear wiper motor auto stop input from rear wiper motor.	

ACTIVE TEST

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:0000000009174879

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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 unock 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:0000000009174880

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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

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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)

NFOID:0000000009174881

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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.

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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.
AUTO 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].	

< SYSTEM DESCRIPTION > [BCM	1]
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Test Item			Description
REVERSE LAMP TEST	This test is able to chec		ck reverse lamp illumination operation [On/Off].
FRUNK/LUGGAGE LAMP TEST	This test is able to chec		ck cargo lamp illumination operation [On/Off].
KEYFOB PW TEST	This test is able to checo		ck power window operation using the Intelligent Key [P/W up/down DN/Send P/W up ON].
SHIFTLOCK SOLENOID TEST	This test is	s able to che	ck shift lock solenoid operation [On/Off].
VORK SUPPORT			
Support Item	Se	tting	Description
ONLY OF PATTERN ON VER	On*		Battery saver function ON.
GN/ACC BATTERY SAVER	Off		Battery saver function OFF.
	BUZZER		Buzzer reminder function by door lock/unlock request switch ON.
	HORN		Horn chirp reminder function by door lock request switch ON.
ANSWERBACK I-KEY LOCK UNLOCK	Off*		No reminder function by door lock/unlock request switch.
	INVALID		This mode is not used.
ANSWERBACK KEYLESS LOCK UN-	On		Buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key.
LOCK	Off*		No buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key.
ANOMED DAOK	On*		Horn chirp reminder when doors are locked with Intelligent Key.
ANSWER BACK	Off		No horn chirp reminder when doors are locked with Intelligent Key
	On		Retractable mirror set ON.
RETRACTABLE MIRROR SET	Off*		Retractable mirror set OFF.
CONFIRM KEY FOB ID	_		Intelligent Key ID code registration can be checked.
	On*		Door lock/unlock function from Intelligent Key ON.
LOCK/UNLOCK BY I-KEY	Off		Door lock/unlock function from Intelligent Key OFF.
-NOINE OTABL BY LIKEY	On*		Engine start function from Intelligent Key ON.
ENGINE START BY I-KEY	Off		Engine start function from Intelligent Key OFF.
EDUNIKIOLAGO LIATOLI GEEN	On*		Buzzer reminder function by back door request switch ON.
TRUNK/GLASS HATCH OPEN	Off		Buzzer reminder function by back door request switch OFF.
NITELLIOENT VEV LINIV OFT	On		Intelligent Key link set ON.
NTELLIGENT KEY LINK SET	Off*		Intelligent Key link set OFF.
		70 msec	
	Start	100 msec	Starter motor operation duration times.
SHORT CRANKING OUTPUT		200 msec	
	End	1	_
NSIDE ANT DIAGNOSIS			This function allows inside key antenna self-diagnosis.
	MODE7	5 min	
	MODE6	4 min	
	MODE5	3 min	
AUTO LOCK SET	MODE4	2 min	Auto door lock time can be set in this mode.
	MODE3*	1 min	

^{*:} Initial Setting

COMB SW

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MODE2

MODE1

30 sec

Off

COMB SW: CONSULT Function (BCM - COMB SW)

INFOID:0000000009174882

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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]	
FR WIPER LOW [On/Off]	Indicates condition of winer eneration of combination switch
FR WASHER SW [On/Off]	Indicates condition of wiper operation of combination switch.
FR WIPER INT [On/Off]	
INT VOLUME [1 - 7]	Indicates condition of intermittent wiper operation of combination switch.
RR WIPER ON [On/Off]	
RR WIPER INT [On/Off]	Indicates condition of rear wiper operation of combination switch.
RR WASHER SW [On/Off]	
TURN SIGNAL R [On/Off]	Indicates condition of right turn signal operation of combination switch.
TURN SIGNAL L [On/Off]	Indicates condition of left turn signal operation of combination switch.
TAIL LAMP SW [On/Off]	Indicates condition of tail lamp switch operation of combination switch.
HI BEAM SW [On/Off]	Indicates condition of Hi beam switch operation of combination switch.
HEAD LAMP SW 1 [On/Off]	Indicates condition of head lamp switch 1 operation of combination switch.
HEAD LAMP SW 2 [On/Off]	Indicates condition of head lamp switch 2 operation of combination switch.
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:0000000009174883

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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.

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.
NESET SETTING VALUE	Cancel	Cancels the reset function.

CONFIGURATION

Refer to BCS-65, "CONFIGURATION (BCM): Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-17, "CAN Diagnostic Support Monitor".

[BCM] < SYSTEM DESCRIPTION >

IMMU

IMMU: CONSULT Function (BCM - IMMU)

INFOID:0000000009174884

CAUTION:

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

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SELF DIAGNOSTIC RESULT

Refer to BCS-52, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
CONFRM ID ALL [Yet/DONE]	
CONFIRM ID4 [Yet/DONE]	
CONFIRM ID3 [Yet/DONE]	Switches to DONE when an Intelligent Key is registered.
CONFIRM ID2 [Yet/DONE]	
CONFIRM ID1 [Yet/DONE]	
TP 4 [Yet/DONE]	
TP 3 [Yet/DONE]	DONE indicates the number of Intelligent Key ID which has been registered.
TP 2 [Yet/DONE]	DONE indicates the number of intelligent key to which has been registered.
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].

WORK SUPPORT

Support Item	Setting	Description
CONFIRM DONGLE ID	_	Dongle ID can be checked.

BATTERY SAVER

BATTERY SAVER: CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000009174885

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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 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.

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< SYSTEM DESCRIPTION >

[BCM]

Monitor Item [Unit]	Description
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:0000000009174886

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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:0000000009174887

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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

Monitored Item	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.	
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.	
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	

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Monitored Item	Description
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.
TR/BD OPEN SW [On/Off]	Indicates condition of back door opener 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-TR/BD [On/Off]	Indicates condition of back door open signal from Intelligent Key.

ACTIVE TEST

Test Item	Description	
FLASHER	This test is able to check turn signal lamp operation [LH/RH/Off].	
THEFT IND	This test is able to check security indicator lamp operation [On/Off].	
VEHICLE SECURITY HORN	This test is able to check vehicle security horn operation [On].	
HEADLAMP(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:0000000009174888

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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

SIGNAL BUFFER: CONSULT Function (BCM - SIGNAL BUFFER)

INFOID:0000000009174889

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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

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< SYSTEM DESCRIPTION >

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)

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow 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 ² or Psi]	Indicates air pressure of front LH tire.
AIR PRESS FR [kPa, kg/cm ² or Psi]	Indicates air pressure of front RH tire.
AIR PRESS RR [kPa, kg/cm ² or Psi]	Indicates air pressure of rear RH tire.
AIR PRESS RL [kPa, kg/cm ² 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

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

< SYSTEM DESCRIPTION > [BCM]

Support Item	Description	
ID READ	The registered ID number is displayed.	
ID REGIST	Refer to WT-30, "Description".	

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ECU DIAGNOSIS INFORMATION

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Reference Value

NOTE:

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

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

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
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
AIR COND SW	A/C switch ON	On
AIR PRESS FL	Front left tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS FR	Front right tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS RL	Rear left tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS RR	Rear right tire air pressure value	kPa, kg/cm ² , psi
AUTO CRNK TME	Remote engine start timer duration.	sec
AUTO CRNK TMR	When the remote engine start timer is OFF.	Off
AUTO CRINK TIVIR	When the remote engine start timer is ON.	On
AUTO LIGHT SW	Lighting switch OFF	Off
AUTO LIGITI SW	Lighting switch AUTO	On
	Back door LOCK status	LOCK
BK DOOR STATE	Back door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
BRAKE SW 1	When the brake pedal is released	On
DIVARLE OW 1	When the brake pedal is depressed	Off
BRAKE SW2	Brake pedal released	Off
DIVINE OVV2	Brake pedal depressed	On
BUZZER	Buzzer in combination meter OFF	Off
DOZZER	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
OOM NWID ALL	The key ID matches any key ID registered to BCM.	DONE

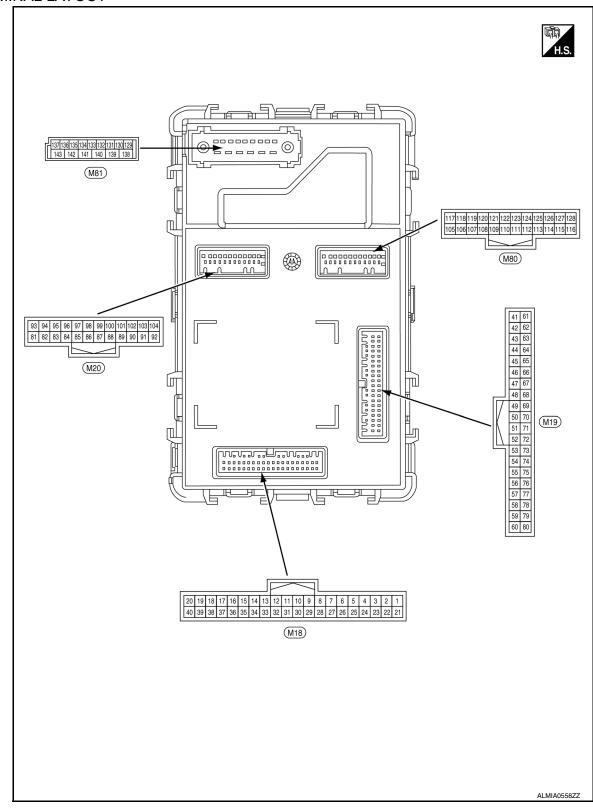
Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID does not match the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID matches the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID does not match the third key ID registered to BCM.	Yet
	The key ID matches the third key ID registered to BCM.	DONE
CONFIDM ID2	The key ID does not match the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID matches the second key ID registered to BCM.	DONE
CONFIDM ID4	The key ID does not match the first key ID registered to BCM.	Yet
CONFIRM ID1	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
CDNIK DDDT TMD	When the engine start prohibit timer is OFF.	Off
CRNK PRBT TMR	When the engine start prohibit timer is ON.	On
DETE CM IDDM	When selector lever is in P position	Off
DETE SW -IPDM	When selector lever is in any position other than P	On
DETE OM DIMD	When BCM is not supplying power to detent switch.	Off
DETE SW PWR	When BCM is supplying power to detent switch.	On
DETE (CANCL OW	When selector lever is in P position	Off
DETE/CANCL SW	When selector lever is in any position other than P	On
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Passenger door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door LOCK status	LOCK
DOOR STAT-DR	Driver door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Rear left door LOCK status	LOCK
DOOR STAT-RL	Rear left door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Rear right door LOCK status	LOCK
DOOR STAT-RR	Rear right door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Front door RH closed	Off
DOOR SW-AS	Front door RH opened	On
DOOD OW DV	Back door closed	Off
DOOR SW-BK	Back door opened	On
DOOD 0'44 DD	Front door LH closed	Off
DOOR SW-DR	Front door LH opened	On
200D 0W 21	Rear door LH closed	Off
DOOR SW-RL	Rear door LH opened	On
	Rear door RH closed	Off
DOOR SW-RR	Rear door RH opened	On
	Engine stopped	STOP
	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN

Monitor Item	Condition	Value/Status
FAN ON CIC	Blower motor fan switch OFF	Off
FAN ON SIG	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
FR WASHER SW	Front washer switch ON	On
FR WIPER LOW	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On
FR WIPER HI	Front wiper switch OFF	Off
FR WIPER III	Front wiper switch HI	On
FR WIPER INT	Front wiper switch OFF	Off
FR WIPER IN I	Front wiper switch INT	On
FR WIPER STOP	Any position other than front wiper stop position	Off
FR WIFER STOP	Front wiper stop position	On
HAZADD SW	When hazard switch is not pressed	Off
HAZARD SW	When hazard switch is pressed	On
HEAD LAMP SW 1	Headlamp switch OFF	Off
HEAD LAIVIP SVV I	Headlamp switch 1st	On
HEAD LAMP SW 2	Headlamp switch OFF	Off
HEAD LAIVIP SVV Z	Headlamp switch 1st	On
LII DEAM CW	High beam switch OFF	Off
HI BEAM SW	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
ID OK FLAG	Ignition switch OFF	Set
ID REGST FL1	ID registration of front left tire incomplete	YET
ID REGOT FLT	ID registration of front left tire complete	DONE
ID DECST ED1	ID registration of front right tire incomplete	YET
ID REGST FR1	ID registration of front right tire complete	DONE
ID REGST RL1	ID registration of rear left tire incomplete	YET
ID REGGI KLI	ID registration of rear left tire complete	DONE
ID REGST RR1	ID registration of rear right tire incomplete	YET
ID REGOT RRT	ID registration of rear right tire complete	DONE
ION DIVI E/D	Ignition switch OFF or ACC	Off
IGN RLY1 F/B	Ignition switch ON	On
ION DIVA DEO	Front blower motor OFF	Off
IGN RLY3 -REQ	Front blower motor ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
L KEV OK ELAC	I-Key OFF	Key OFF
I-KEY OK FLAG	I-Key ON	Key ON
KEV OWL LIK OW	Door key cylinder LOCK position	Off
KEY CYL LK-SW	Door key cylinder other than LOCK position	On
	Door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Door key cylinder other than UNLOCK position	On

Monitor Item	Condition	Value/Status	
RKE PBD	I-Key power back door button not pressed	Off	
KKE PBD	I-Key power back door button pressed	On	
OPTI SEN (DTCT)	Bright outside of the vehicle	Close to 5V	
JPTI SEN (DTCT)	Dark outside of the vehicle	Close to 0V	
	Bright outside of the vehicle	Close to 5V	
OPTI SEN (FILT)	Dark outside of the vehicle	Close to 0V	
	Other than lighting switch PASS	Off	
PASSING SW	Lighting switch PASS	On	
	When the engine start is prohibited	Reset	
PRBT ENG STRT	When the engine start is permitted	Set	
	When the engine start is prohibited	Reset	
PRMT ENG STRT	When the engine start is permitted	Set	
DD14T D1/E 0777	When the engine start is prohibited	Reset	
PRMT RKE STRT	When the engine start is permitted	Set	
	Return ignition switch to LOCK position	Off	
PUSH SW	Press ignition switch	On	
	When engine switch (push switch) is not pressed	Off	
PUSH SW-IPDM	When engine switch (push switch) is pressed	On	
	Rear window defogger switch OFF	Off	
REAR DEF SW	Rear window defogger switch ON	On	
	Rear washer switch OFF	Off	
RR WASHER SW	Rear washer switch ON	On	
	Rear wiper switch OFF	Off	
RR WIPER INT	Rear wiper switch INT	On	
	Rear wiper switch OFF	Off	
RR WIPER ON	Rear wiper switch ON	On	
	Any position other than rear wiper stop position	Off	
RR WIPER STOP	Rear wiper stop position	On	
	When passenger door request switch is not pressed	Off	
REQ SW-AS	When passenger door request switch is pressed	On	
	When back door request switch is not pressed	Off	
REQ SW-BD/TR	When back door request switch is pressed	On	
	When driver door request switch is not pressed	Off	
REQ SW-DR	When driver door request switch is pressed	On	
	When LOCK button of Intelligent Key is not pressed	Off	
RKE-LOCK	When LOCK button of Intelligent Key is pressed	On	
	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off	
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On	
RKE OPE COUN1	Operation frequency of Intelligent Key	0-19	
RKE OPE COUN2	Operation frequency of Intelligent Key	0-19	
	When PANIC button of Intelligent Key is not pressed	Off	
RKE-PANIC	When PANIC button of Intelligent Key is pressed	On	

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

TERMINAL LAYOUT



PHYSICAL VALUES

Revision: May 2013 BCS-35 2014 Pathfinder

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Terminal No.		Description				Wal -
(Wire	e color) (-)	Signal name	Input/ Output	Condition		Value (Approx.)
1			Input	Push-button ignition switch	Pressed	0V
(G)	Ground				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) G	Ground	Auto light signal	Input	Push-button ignition switch ON	When outside of the vehi- cle is bright	Close to 5V
	Ground				When outside of the vehi- cle is dark	Close to 0V
		Combination switch input 5	Input	Combination switch (Wiper intermit- tent dial 4)	OFF	0V
					TURN RH	
					HEADLAMP 1	(V) 15
10 (W)	Ground				HI BEAM	10
					TAIL LAMP	0 → -10ms PKIB4958J
			Input		OFF	1.0V 0V
					TURN LH	
11 (BG)		Combination switch input 4		Combination switch (Wiper intermit- tent dial 4)	PASSING	(V) 15
					HEADLAMP 2	10
	Ground				FR FOG	+ +10ms PKIB4958J
						1.0V
	Ground	Combination switch input 3	Input	Combination switch (Wiper intermit- tent dial 4)	OFF	0V
					FR WIPER LOW	
12 (R)					FR WIPER INT/AUTO	(V) 15
					AUTO LIGHT	10 5 0 + 10ms PKIB4958J
						1.0V
13 (G)	Ground	Combination switch input 2	Input	Combination switch (Wiper intermittent dial 4)	OFF	0V
					FR WASHER	-
					RR WASHER	(V) 15
					INT VOLUME 3	10
					RR WIPER ON	0 + 10ms PKIB4958J
						1.0V

	inal No.	Description	T		-	Value
(VVII (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
					OFF	0V
					FR WIPER HI	
					INT VOLUME 1	(V) 15
14		Combination switch		Combination switch	RR WIPER INT	10
(P)	Ground	input 1	Input	(Wiper intermit-		0
				tent dial 4)		→ ←10ms
					INT VOLUME 2	
						PKIB4958J 1.0V
17	Ground	Auto light reference	Input	Push-button ignition	on switch ON	0V
(R)	Ground	ground	IIIput	F usit-button ignitio		
					ON	0V
						(V)
						(V) 15
18 Cround	l Canada in diantan			Dr. L.	10 5	
(V)	Ground	Security indicator	Output	Security indicator	Blinking	
						1 s
						JPMIA0014GB 11.3V
					OFF	Battery voltage
19		Central door lock sw		Door lock/unlock	Lock	Battery voltage
19 (Y)	Ground	signal	Input	switch	Unlock	0V
20			_		P position	0V
(W)	Ground	Shift P	Input	Selector lever	Any position other than P	Battery voltage
21					ON	0V
W)	Ground	Step lamp control	Output	Step lamp	OFF	Battery voltage
24	0	Door key/c unlock sw	laa (Key cylinder	OFF (neutral)	5V
SB)	Ground	signal	Input	switch	ON (unlock)	0V
25	Ground	Brake switch fuse	Input		_	Battery voltage
(W)		3				_ 3.1.5. , . 5.1.4.90
26 (L)	Ground	Shorting input	Input	Push-button ignition	on switch OFF	Battery voltage
. ,					OFF (brake pedal is not de-	01/
27	Ground	Brake switch lamp	Input	Stop lamp switch	pressed)	0V
(G)	Cround	Ziano omioni amp	put	Stop lamp Switch	ON (brake pedal is de-	Battery voltage
					pressed)	
						(V)
						15
20		Deixon door last at			LOCK status	5
30 (P) Ground	Ground	Driver door lock sta- tus	Input	Front door LH	LOOK Status	
` /		-				10 ms
						JPMIA0011GB 11.8V
					UNLOCK status	0V
32			_	Rear window de-	OFF	5V
(R)	Ground	Rr def sw signal	Input	fogger switch	ON	0V

	inal No.	Description				Value
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
34		Central door unlock		Door lock/unlock	Unlock	Battery voltage
(BR)	Ground	sw signal	Input	switch	Lock	0V
					Pressed	0 V
36 (W)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V
39	Ground	Shift N/P	Input	Selector lever	P or N position	Battery voltage
(G)	Ground	SHIIL IN/F	Input	Selector level	Except P and N positions	0V
48	0	High side start switch	0 1: 1	Push-button igni-	ON	5.5V
(R)	Ground	LED	Output	tion switch illumi- nation	OFF	0V
52 (W)	Ground	Audio dongle	Input/ Output	Push-button ignition	on switch OFF	5V
54 (W)	Ground	Power window link/ communication	Input/ Output	Push-button ignition switch	ON	(V) 15 10 5 0 10 ms 10 ms 10.2V
					OFF or ACC	0V
59 (P)	Ground	CAN low	Input/ Output			_
60 (L)	Ground	CAN high	Input/ Output		_	-
61	Ground	Rear defogger relay	Output	Rear window de-	Activated	Battery voltage
(BG)	Ground	output	Output	fogger	Not activated	0V
62	Ground	Starter relay output	Output	Push-button igni-	When selector lever is in P or N position and the brake is depressed	Battery voltage
(W)				tion switch ON	When selector lever is in P or N position and the brake is not depressed	OV
63 (BG)	Ground	I-Key link signal	Output	unlocking door by	on switch OFF \rightarrow ON, after 1st key registered to BCM on switch OFF \rightarrow ON, after	5V
•					2nd key registered to BCM	0V
64	Ground	Buzzer output	Output	Outside warning	Sounding	0V
(P)	J. Garia		Jacpat	buzzer	Not sounding	Battery voltage
66	Ground	Blower fan relay out-	Output	Push-button igni-	OFF or ACC	0V
(W)	2.344	put		tion switch O	ON	Battery voltage
67	Ground	Ignition electrical re-	Output	nut I don ballon ign	OFF or ACC	0V
(G)		lay output 2		tion switch	ON	Battery voltage

	inal No.	Description	Ī			Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
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)	OV
					The area around the vehi- cle is dark (Block the light from the optical sensor)	Battery voltage
69 (G)	Ground	CVT device output	Output		_	Battery voltage
70	Ground	IPDM E/R ignition	Output	Push-button igni-	OFF or ACC	0V
(P)	Ground	output 1	Output	tion switch	ON	Battery voltage
					ON (pressed)	0V
71 (R)	Ground	Driver request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
					ON (pressed)	1.0V
				ON (preceded)		
72 (G)	Ground	Passenger request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V
				Front door lock	OFF (neutral)	5V
74 (BR)	Ground	Door key/c lock sw signal	Input	assembly LH (key	ON (lock)	0V
				cylinder switch)		
75	Constitution	Combination switch	Outs	Combination switch	OFF	(V) 15 10 5 0 *****************************
(BG)		output 5	Output	(Wiper intermit-	INT VOLUME 2	
				tent dial 4)	RR WIPER ON FR FOG	(V) 15 10 5 0
						РКІВ4958J 1.2V

	inal No. e color)	Description			Condition	Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
76		Combination switch		Combination switch	OFF	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 − 8.0V	
(P)	Ground	output 4	Output	(Wiper intermit- tent dial 4)	RR WIPER INT		
				terit diai 4)	INT VOLUME 3	(V) 15	
					AUTO LIGHT	10 5	
					TAIL LAMP	0 + 10ms PKIB4958J	
77		Combination switch output 3	Output	Combination switch (Wiper intermit- tent dial 4)	OFF	(V) 15 10 5 0 *** 10ms PKIB4960J 7.0 - 8.0V	
(R)	Ground				INT VOLUME 1		
					RR WASHER	(V) 15	
					HEADLAMP 2	10	
					HI BEAM	0 ++10ms PKIB4958J 1.2V	
78		Combination switch		Combination switch	OFF	(V) 15 10 5 0 ++10ms PKIB4960J 7.0 - 8.0V	
(G)	Ground	output 2	Output	(Wiper intermit-	FR WIPER HI		
				tent dial 4)	FR WIPER INT/AUTO	(V) 15	
					PASSING	10	
					HEADLAMP 1	0 + 10ms PKIB4958J	
						1.2V	

Terminal No. (Wire color)		Description				Value	/-
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
				Combination	OFF	(V) 15 10 5 0 + 10ms PKIB4960J	(
79	Ground	Combination switch	Output	switch		7.0 – 8.0V	
(W)		output 1		(Wiper intermit- tent dial 4)	FR WASHER	(V)	
					FR WIPER LOW TURN LH	(V) 15 10	E
					I ORIN LIT	5	
					TURN RH	+10ms PKIB4958J	F
						1.2V	
80		Rack door open			Open (back door actuator is activated)	Battery voltage	(
80 (R)	Ground	Back door open switch	Output	Back door	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)	(V) 15 10 5 0 10 ms JPMIA0011GB	ŀ
					ON (when rear door LH	11.8V 0V	
					opens)	0V	
83 (BG)	Ground	Back door request switch	Input	Back door re- quest switch	ON (pressed) OFF (not pressed)	Battery voltage	
					Rear wiper stop position	Battery voltage	В
84 (BR)	Ground	Rear wiper autostop switch	Input	Push-button ignition switch ON	Any position other than rear wiper stop position	0V	ji.
					Turn signal switch OFF	Battery voltage	- 1
86 (R)	Ground	Left rear trailer flash- er	Output	Push-button ignition switch ON	Turn signal switch LH	(V) 15 10 5 0	(

Termi	inal No.	Description					
(Wire	e color)	Signal name	Input/		Condition	Value (Approx.)	
(+)	(-)	Signal name	Output		I		
					Turn signal switch OFF	Battery voltage	
87 (P)	Ground	Right rear trailer flasher	Output	Push-button ignition switch ON		Turn signal switch RH	(V) 15 10 5 0
91	0	Back door open out	0.44	Back door opener	OFF	0V	
(BR)	Ground	signal	Output	switch	ON	Battery voltage	
					Turn signal switch OFF	0V	
92 (R)	Ground	Right rear flasher	Output	Push-button ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
93 (R)	Ground	Right rear door switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (when rear door RH opens)	0V	
94 (G)	Ground	Passenger door switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (when front door RH opens)	0V	
95	Craund	Door winer autout	Outout	Doorwings	OFF (stopped)	0V	
(V)	Ground	Rear wiper output	Output	Rear wiper	ON (activated)	Battery voltage	

	inal No. e color)	Description	1 .		Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
96 (BG)	Ground	Driver door switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (front door LH OPEN)	0V
97 (W)	Ground	Back door switch	Input	Back door switch	OFF (back door is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (back door is open)	11.8V 0V
		Inside key antenna (luggage room) B	Output	Push-button ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5
						1 s JMKIA0062GB
99 (P)	Ground					(V)
					When Intelligent Key is not in the passenger compartment	15 10 5 0 1 1 s JMKIA0063GB
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0
100	Ground	Inside key antenna (luggage room) A	Output	Push-button ignition switch OFF		JMKIA0062GB
(W)		(ruggage routh) A		aon owner or r	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
101	Constant	Outside key antenna	Outout	When the back door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 S S S S S S S S S
(R)	Ground	(rear bumper) B	Output	switch is operat- ed with push-but- ton ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
102	Ground	oround Outside key antenna (rear bumper) A	Output	When the back door request switch is operat- ed with push-but- ton ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(G)	Clound				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
					Turn signal switch OFF	0V
103 (BG)	Ground	Left rear flasher	Output	Push-button ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
104 (LG)	Ground	Reverse lamp output	Output	Push-button ignition switch ON	R position	(V) 15 10 5 0 1 s PKID0926E 6.5V
					Any position other than R	0V

	inal No. e color)	Description			O a differen	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0V
105 (LG)	Ground	Right front flasher	Output	Push-button ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
					OFF	0V
107 (W)	Ground	Low side start switch LED	Input	Push-button ignition switch	NOTE: When the illumination brightening/dimming level is in the neutral position ON	(V) 10 0 2 ms JSNIA0010GB
108	Ground	Shift lock solenoid	Input	Selector lever	P position	0V
(GR)		output			Any position other than P	Battery voltage
109	Ground	Ground Reverse signal Output	Push-button igni-	R position	Battery voltage	
(R)		, j		tion switch ON	Any position other than R	0V
111 (D)	Ground	ACC LED	Output	Push-button igni- tion switch	OFF	Battery voltage
(P)					ACC or ON	0V
113 (L)	Ground	ACC relay output	Output	Push-button igni- tion switch	OFF	OV Datte and the control
(L)				tion switch	ACC or ON	Battery voltage
				When the front	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
114 (W)	Ground	Outside key antenna (passenger side) A	Output	door RH request switch is operat-		
	,		ed with push-but- ton ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0	
				alea	1 s	

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
115	Ground	Outside key antenna		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(BG)	Glouliu	(passenger side) B	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
116	Ground	Inside key antenna (console) A	Output	Push-button ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 S JMKIA0062GB
(W)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
					Turn signal switch OFF	0V
117 (SB)	Ground	Left front flasher	Output	Push-button ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V

	ninal No. re color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
119	Ground	Remote keyless entry	Input/	Push-button igni-	Standby state	(V) 6 4 2 0 • • 0.2s OCC3881D
(R)	Glound	receiver signal	Output	tion switch ON	When receiving the signal from the transmitter	(V) 6 4 2 0
121		When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB		
121 (G) Grou	Ground	(driver side) B	Output	switch is operated with push-button ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
122 (P) Groun	Constant	Outside key antenna		When the front door LH request switch is operat- ed with push-but- ton ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
	Ground	(driver side) A	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB

	inal No. e color)	Description			0 1111	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
123	Ground	Inside key antenna (instrument center) A	Output	Push-button igni-	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(W)				tion switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
124	Ground	Inside key antenna		Push-button ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(G)	Glouliu	(instrument center) B			When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
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.

	inal No. e color)	Description		Value		Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
128 (R)	Ground	Inside key antenna (console) B	Output	Push-button ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
129	Ground	Battery saver output	Output	er operation time	nterior room lamp battery sav-	0V
(SB)		,		Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage
130	Ground	Passenger door un-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
(LG)		lock			Other than UNLOCK (actuator is not activated)	0V
131 (W)	Ground	BCM battery fuse	Input	Push-button ignition	on switch OFF	Battery voltage
132	Ground	Rear door lock	Output	All doors	LOCK (actuator is activated)	Battery voltage
(BR)					Other than LOCK (actuator is not activated)	0V
133	Ground	Rear door unlock	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(Y)	Ground	. todi dooi dillook	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
134 (B)	Ground	Ground 2	_	Push-button ignition	on switch ON	0V
135	Ground	Driver, passenger	Output	All doors	LOCK (actuator is activated)	Battery voltage
(L)	Ciound	and fuel door lock	Juiput	, iii 40013	Other than LOCK (actuator is not activated)	0V
136	Ground	Room lamp control	Output	Interior room	OFF	Battery voltage
(LG)		•		lamp	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	on switch OFF	Battery voltage
139 (W)	Ground	Fusible link battery power	Input	Push-button ignition	on switch OFF	Battery voltage

	inal No.	Description			Value
	e color)	Signal name	Input/	Condition	(Approx.)
(+)	(-)	_	Output		
140 (BR)	Ground	Power window igni- tion power supply	Output	Push-button ignition switch ON	Battery voltage
141 (Y)	Ground	Power window bat- tery 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

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 • Starter control relay signal • Starter relay status signal
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 Starter motor relay control signal Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
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:0000000009174893

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING B2196: DONGLE UNIT B2198: NATS ANTENNA AMP

Priority	DTC	
-	B2555: STOP LAMP	
	B2556: PUSH-BTN IGN SW	
	B2557: VEHICLE SPEED	
	B2560: STARTER CONT RELAY B2604: SUIET ROCITION	
	B2601: SHIFT POSITION B2602: SHIFT POSITION	
	B2602: SHIFT POSITION B2603: SHIFT POSI STATUS	
	B2604: PNP SW	
	• B2605: PNP SW	
	B2608: STARTER RELAY	
	B260A: IGNITION RELAY	
	B2614: ACC RELAY CIRC	
	B2615: BLOWER RELAY CIRC	
	B2616: IGN RELAY CIRC B2617: CTARTER RELAY CIRC B2617: CTARTER RELAY CIRC B2617: CTARTER RELAY CIRC B2617: CTARTER RELAY CIRC B2618: IGN RELAY CIRC B	
4	B2617: STARTER RELAY CIRC B2618: BCM	
4	B261A: PUSH-BTN IGN SW	
	B261B: RES ENG RUN	
	B261E: VEHICLE TYPE	
	B26F1: IGNITION RELAY	
	B26F2: IGNITION RELAY	
	B26F3: STARTER CONTROL RELAY	
	B26F4: STARTER CONTROL RELAY	
	• B26F6: BCM	
	B26F7: BCM B26F8: BCM	
	B26FD: SHIFT LOCK SOLENOID	
	B26FE: HOOD SWITCH	
	B26FF: INTELLIGENT TUNER	
	C1729: VHCL SPEED SIG ERR	
	U0415: VEHICLE SPEED SIG	
	C1704: LOW PRESSURE FL	
	C1705: LOW PRESSURE FR C4700: LOW PRESSURE FR	
	C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL	
	C1708: [NO DATA] FL	
	• C1709: [NO DATA] FR	
	• C1710: [NO DATA] RR	
	• C1711: [NO DATA] RL	
	C1712: [CHECKSUM ERR] FL	
	C1713: [CHECKSUM ERR] FR	
	C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RL	
	C1716: [PRESSDATA ERR] FL	-
	C1717: [PRESSDATA ERR] FR	
-	C1718: [PRESSDATA ERR] RR	
5	C1719: [PRESSDATA ERR] RL	•
	C1720: [CODE ERR] FL	
	C1721: [CODE ERR] FR	
	C1722: [CODE ERR] RR	
	C1723: [CODE ERR] RL C4724: [RATT VOLT L COM EL	
	C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR	
	C1725: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR	
	C1720: [BATT VOLT LOW] RK C1727: [BATT VOLT LOW] RL	
	• C1730: FLAT TIRE FL	
	• C1731: FLAT TIRE FR	
	C1732: FLAT TIRE RR	
	C1733: FLAT TIRE RL	
	C1734: CONTROL UNIT	
	C1735: IGNITION SIGNAL	

Priority	DTC
6	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA
7	B259A: ROOM LAMP FUSE

DTC Index

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	_	_	_	BCS-68, "Description"
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-69, "DTC Logic"
U0415: VEHICLE SPEED SIG	_	_	_	BCS-70, "Description"
B2190: NATS ANTENNA AMP	×	_	_	SEC-90, "Description"
B2191: DIFFERENCE OF KEY	×	_	_	SEC-92, "Description"
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-93, "DTC Logic"
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-94, "DTC Logic"
B2195: ANTI SCANNING	×	_	_	SEC-95, "DTC Logic"
B2196: DONGLE UNIT	_	_	_	SEC-96, "Description"
B2198: NATS ANTENNA AMP.	_	_	_	SEC-98, "DTC Logic"
B2555: STOP LAMP	_	_	_	SEC-100, "DTC Logic"
B2556: PUSH-BTN IGN SW	_	×	_	SEC-103, "DTC Logic"
B2557: VEHICLE SPEED	_	×	_	SEC-105, "DTC Logic"
B2560: STARTER CONT RELAY	×	×	_	SEC-106, "Description"
B2562: LOW VOLTAGE	×	_	_	BCS-71, "DTC Logic"
B259A: ROOM LAMP FUSE	_	_	_	BCS-72, "DTC Logic"
B2601: SHIFT POSITION	_	×	_	SEC-107, "DTC Logic"
B2602: SHIFT POSITION	_	×	_	SEC-110, "DTC Logic"
B2603: SHIFT POSI STATUS	_	×	_	SEC-112, "DTC Logic"
B2604: PNP SW	_	×	_	SEC-116, "DTC Logic"
B2605: PNP SW	_	×	_	SEC-119, "DTC Logic"
B2608: STARTER RELAY	×	×	_	SEC-122, "DTC Logic"
B260A: IGNITION RELAY	×	×	_	PCS-60, "DTC Logic"
B2614: ACC RELAY CIRC	_	×	_	PCS-62, "DTC Logic"
B2615: BLOWER RELAY CIRC	_	×	_	PCS-64, "DTC Logic"
B2616: IGN RELAY CIRC	_	×	_	PCS-66, "DTC Logic"
B2617: STARTER RELAY CIRC	×	×	_	SEC-124, "Description"
B2618: BCM	×	×	_	PCS-68, "DTC Logic"

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
3261A: PUSH-BTN IGN SW	_	×	_	PCS-70, "DTC Logic"
3261B: RES ENG RUN	_	_	_	DLK-148, "DTC Logic"
3261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-126, "Description"
B2621: INSIDE ANTENNA	_	_	_	DLK-149, "DTC Logic"
32622: INSIDE ANTENNA	_	_	_	DLK-151, "DTC Logic"
32623: INSIDE ANTENNA	_	_	_	DLK-153, "DTC Logic"
326F1: IGNITION RELAY	_	_	_	PCS-72, "DTC Logic"
326F2: IGNITION RELAY	_	_	_	PCS-74, "DTC Logic"
326F3: STARTER CONTROL RELAY	_	_	_	SEC-128, "DTC Logic"
326F4: STARTER CONTROL RELAY	_	_	_	SEC-129, "DTC Logic"
326F6: BCM	_	_	_	PCS-76, "DTC Logic"
326F7: BCM	_	_	_	SEC-130, "DTC Logic"
326F8: BCM	_	_	_	SEC-131, "DTC Logic"
326FD: SHIFT LOCK SOLENOID	_	_	_	DLK-155, "DTC Logic"
326FE: HOOD SWITCH	_	_	_	DLK-158, "DTC Logic"
B26FF: REMOTE KEYLESS ENTRY RE- CEIVER	_	_	_	DLK-160, "DTC Logic"
C1704: LOW PRESSURE FL	_	_	×	
C1705: LOW PRESSURE FR		_	×	
C1706: LOW PRESSURE RR	_	_	×	WT-33, "DTC Logic"
C1707: LOW PRESSURE RL	_	_	×	
C1708: [NO DATA] FL	_	_	×	
C1709: [NO DATA] FR	_	_	×	
C1710: [NO DATA] RR	_	_	×	WT-35, "DTC Logic"
C1711: [NO DATA] RL		_	×	
C1712: [CHECKSUM ERR] FL	_	_	×	
C1713: [CHECKSUM ERR] FR	_	_	×	
C1714: [CHECKSUM ERR] RR	_	_	×	WT-38, "DTC Logic"
C1715: [CHECKSUM ERR] RL	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	×	
C1718: [PRESSDATA ERR] RR	_	_	×	WT-40, "DTC Logic"
C1719: [PRESSDATA ERR] RL	_	_	×	
C1720: [CODE ERR] FL	_	_	×	
C1721: [CODE ERR] FR		_	×	
C1722: [CODE ERR] RR		_	×	WT-41, "DTC Logic"
C1723: [CODE ERR] RL		_	×	
C1724: [BATT VOLT LOW] FL		_	×	
C1725: [BATT VOLT LOW] FR		_	×	
C1726: [BATT VOLT LOW] RR	_	_	×	WT-43, "DTC Logic"
C1727: [BATT VOLT LOW] RL		_	×	
C1729: VHCL SPEED SIG ERR		 	×	WT-45, "DTC Logic"

BCM

< ECU DIAGNOSIS INFORMATION >

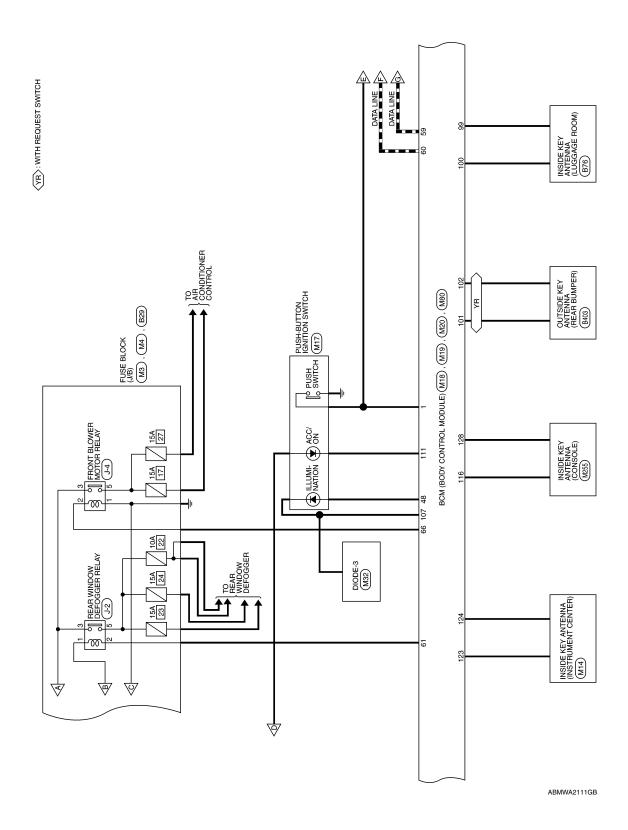
[BCM]

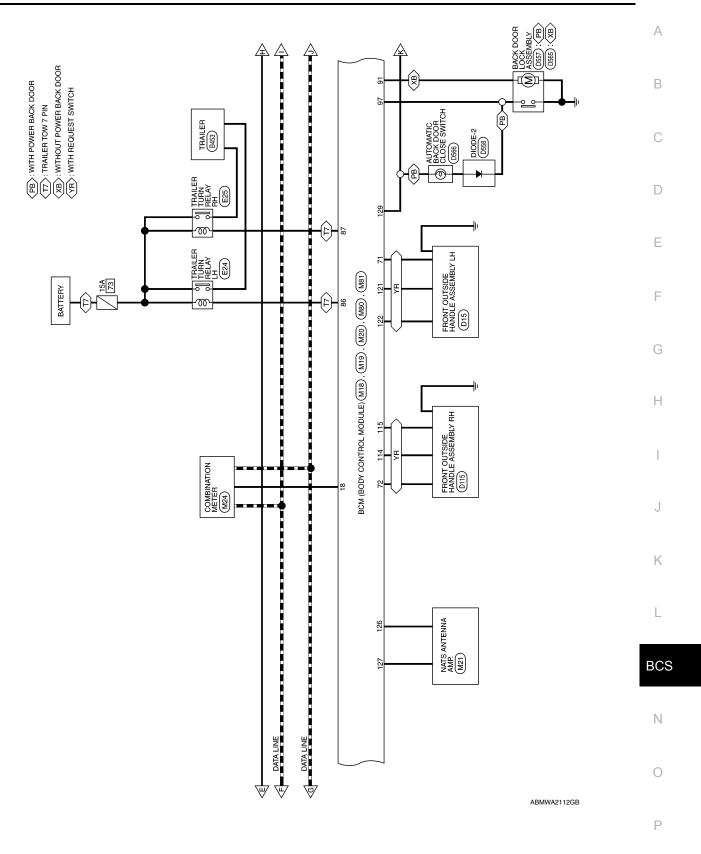
CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1730: FLAT TIRE FL	_	_	×	
C1731: FLAT TIRE FR	_	_	×	WT-46, "DTC Logic"
C1732: FLAT TIRE RR	_	_	×	VV1-40, DTC LOGIC
C1733: FLAT TIRE RL	_	_	×	
C1734: CONTROL UNIT	_	_	×	WT-48, "DTC Logic"
C1735: IGNTION SIGNAL	_	_	×	WT-50, "DTC Logic"

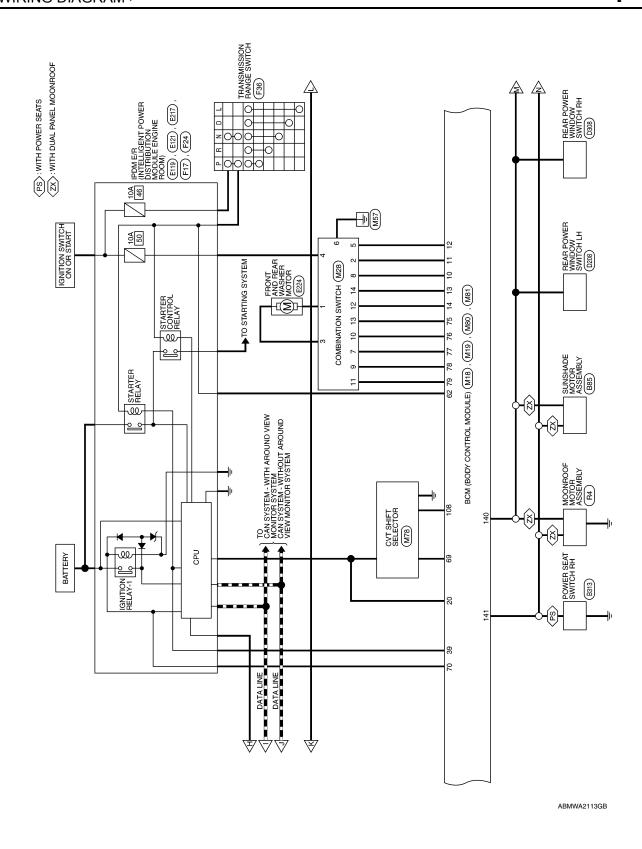
[BCM] < WIRING DIAGRAM > **WIRING DIAGRAM** Α **BCM** Wiring Diagram INFOID:0000000009174895 В BACK DOOR OPENER SWITCH (D559) M68 TO ACCESSORY POWER SUPPLY (EN): WITHOUT NAVI (NV): WITH NAVI (OB): WITHOUT BOSE AUDIO SYSTEM (WB): WITH BOSE AUDIO SYSTEM (YR): WITH REQUEST SWITCH M44 B30 FUSE BLOCK (J/B) (M3) (M4) (E28) (B30) C D GIGNITION PIECE AY-2 STATE AY-2 S REAR WIPER MOTOR (D553) Е AV CONTROL UNIT F ≥ 16 16 G , M81 AV CONTROL UNIT (M42): (WB) (M80) Н MZO SWITCH RH , M19 BCM (BODY CONTROL MODULE) (M18), INTELLIGENT KEY WARNING BUZZER (E1) 10A | REAR DOOR | SWITCH LH | B18 J 15A K DONGLE UNIT L STOP LAMP SWITCH RH BCM (BODY CONTROL MODULE) BCS STOP SWITCH E38 15A Ν ₽ 10 4 SWITCH LH 0 Р 134 143 - Lile (1980)

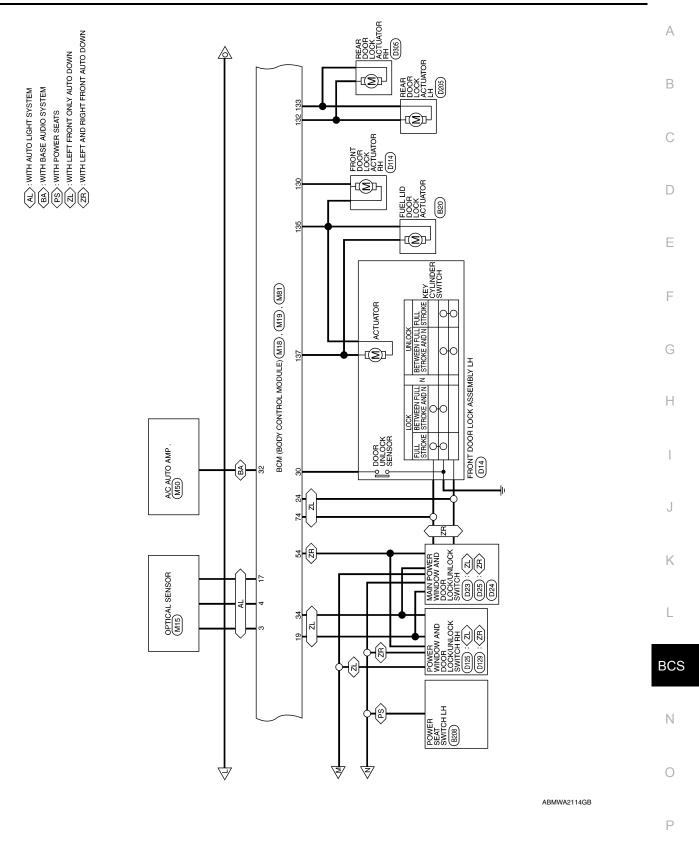
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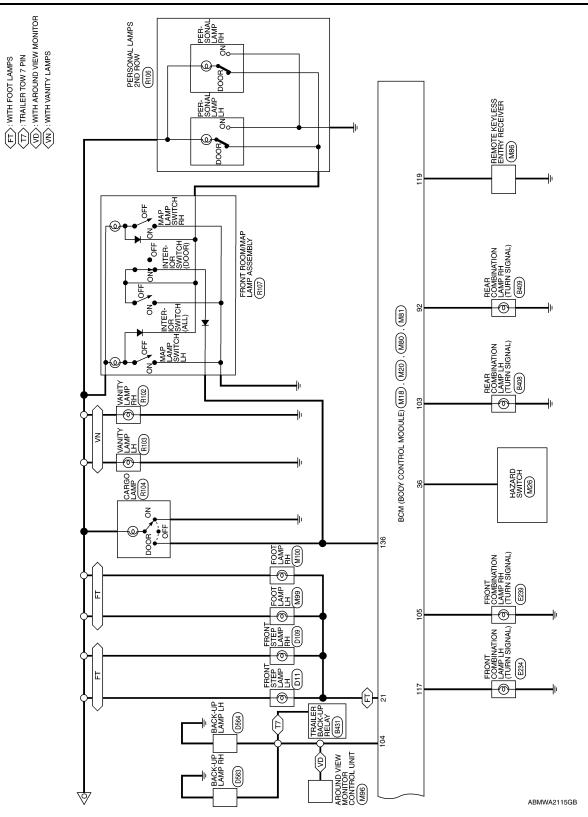
BATTERY











DR DOOR LOCK STATUS

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

			T T			٠
				-	21	
				2	22	
				က	23	
				4	24	
	0			2	25	
	띮			9	26	
	N			7	27	
	$\ddot{\circ}$			8	28	
	≿		117	9	23	
	QŒ.			10	30	
	BCM (BOI MODULE)	ᇜ	l IN	1	31	
	ΜĞ	띭		12	32	
	MC	<u>5</u>		13	33	
	a			4	8	
	an l	응		15	88	
	ž	Ιŏ		19	88	
	tor	₫		1	37	
	ec ec	9 9	(6	8	8	
	Connector Name BCM (BODY CONTROL MODULE)	Connector Color GREEN	H.S.	20 19 18 17 16 15 14 13 12 11 10 9	40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21	
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CENTRAL DOOR LOCK SW

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STEP LAMP CONT

SHIFT P

SECURITY INDICATOR

GND RF A/L

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16 17

Signal Name

Terminal No. Color of Wire

DOOR KEY/C UNLOCK SW

SB

23 23 24 24

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SHORTING INPUT

BRAKE SW LAMP

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25 26 27

BRAKE SW FUSE

Terminal No.	Color of Wire	Signal Name
-	ŋ	ENG START SW
2	ı	ı
က	>	A/L POWER SUPPLY 5V
4	ŋ	A/L SIGNAL
5	-	1
9	1	ı
7	ı	ı
8	_	_
6	1	I
10	×	COMBI SW IN 5
11	BG	COMBI SW IN 4
12	ш	COMBI SW IN 3
13	5	COMBI SW IN 2
14	Ь	COMBI SW IN 1
15	-	-

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BCS-61

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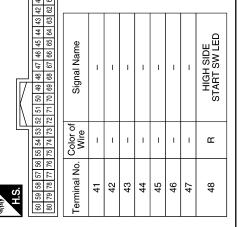
Color of Signal Name Wire	1	W BLOWER FAN RELAY OUT	G IGN ELEC RELAY OUT 2	P MR OUTPUT	G AT DEVICE OUT	P IGN USM OUT 1	R DR REQUEST SW	G AS REQUEST SW	-	BR DOOR KEY/C LOCK SW	BG COMBISW OUT 5	P COMBI SW OUT 4	R COMBI SW OUT 3	G COMBISW OUT 2	W COMBI SW OUT 1	
ਲ਼≤			_		-					۳.	ш				_	
Terminal No.	92	99	29	89	69	70	71	72	23	74	22	92	22	28	62	

	Signal Name	AS DOOR SW	REAR WIPER OUT	DR DOOR SW	BACK DOOR SW	1	ROOM ANT 3 B	ROOM ANT 3 A	BACK DOOR ANT B	BACK DOOR ANT A	RL FLASHER	REVERSE LAMP OU
	Color of Wire	g	>	BG	٨	ı	۵	×	ч	ŋ	BG	FG
	Terminal No.	94	95	96	26	86	66	100	101	102	103	104
,		•	•									

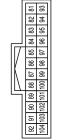
Signal Name	1	1	ı	AUDIO DONGLE	1	PW LIN/COM	ı	1	ı	1	CAN-L	CAN-H	REAR DEFOGGER RELAY OUT	STARTER RELAY OUT	I-KEY LINK SIGNAL	BUZZER OUT	
Color of Wire	ı	ı	ı	8	ı	8	ı	ı	ı	ı	۵	_	BG	8	BG	Д	
Terminal No.	49	20	51	52	53	54	22	56	57	58	59	09	61	62	63	64	

Terminal No.	Color of Wire	Signal Name
83	BG	BACK DOOR REQUEST SW
84	BR	R WIPER AUTOSTOP SW
85	1	ı
98	н	TRAILER FLASHER RL
87	Ь	TRAILER FLASHER RR
88	_	-
68	-	I
06	-	ı
16	BR	BACK DOOR OPEN OUT
76	В	RR FLASHER
93	В	RR DOOR SW

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



ector Name BCM (MODU ector Color GRAY	lame BCM (MODU color GRAY	S @ S D	M20 MOD MOD GRA GRA	M20 BCM (BODY CONTROL MODULE) GRAY GRAY Moderate		BODY C			ONTROL			
ector No		2	2									
ector Na	. ê	: @ 2	<u>[</u>		185	ات ق	15	ĮŌ	ᅝ	18	닏	
ector Co	₫	၅	Ϋ́	¦,								
			Н		IN.	W	117					
92	91	8	88	88	87	98	85	8	8	88	18	
104	104 103 102 101 100 99 98 97	102	101	9	66	88	97	96	96 95 94 93	象	88	
											1	
		l	l	l	l	l	l	l	l	l	l	





Color of Signal Name Wire	BAT REAR WIPER FUSE	V RL DOOR SW
Cold	1	>
Terminal No.	18	82

ABMIA4875GB

REVERSE SIGNAL

ACC LED

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109

SHIFT LOCK SOLENOID OUT

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LOW SIDE START SW LED

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FR FLASHER

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Signal Name

Terminal No. Color of Wire

Signal Name

Color of Wire g BG

Terminal No.

lame	Y OUT	ANT A	ANT B	VT 2 A	HEH		000		ANT B	ANT A	4T 1 A	NT 1 B		TART ANT B	FART ANT A	VT 2 B
Signal Name	ACC RELAY OUT	AS DOOR ANT A	AS DOOR ANT B	ROOM ANT 2 A	FL FLASHER	1	RF NIMOCO	1	DR DOOR ANT B	DR DOOR ANT A	ROOM ANT 1 A	ROOM ANT 1 B	1	IMMO START BUTTON ANT B	IMMO START BUTTON ANT A	ROOM ANT 2 B
Color of Wire	_	Ν	BG	Ν	SB	1	Œ	ı	Э	Ь	Μ	g	1	Ь	BG	Я
Terminal No.	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128

اأ Signal Name	DOOR UNLOCK DR/FL	BAT REAR DOOR	BAT POWER F/L	P/W POWER SUPPLY IGN	P/W POWER SUPPLY BAT	BAT FRONT DOOR	GND 1
Color of Wire	۸	>	≯	BR	Υ	Υ	В
Terminal No.	137	138	139	140	141	142	143

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

Terminal No.		130	131	132	133	134	135	136		
	Connector Name BCM (BODY CONTROL	MODÚLE)	IITE		37 136 135 134 133 132 131 130 129	2		Signal Name		BATTERY SAVER OUT
IMO .	me BCI	MO	lor WH		137 136			Color of	WIre	SB
Cormector No.	Connector Na		Connector Color WHITE		僵	H.S.		Terminal No. Color of		129

F 137 136 135 134 133 132 131 130 129	143 142 141 140 139 138	

M81

Connector No.

BG

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Color of Wire SB

13713613	Color of
H.S.	Terminal No.

1

M28	Connector Name COMBINATION SWITCH	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

Connector Name | BCM (BODY CONTROL MODULE)

Connector No. M80

Connector Color BLACK



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< BASIC INSPECTION > [BCM]

BASIC INSPECTION

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description

IFOID:0000000009174896

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

1. SAVING VEHICLE SPECIFICATION

(P)CONSULT

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

NOTE:

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

>> GO TO 2.

2.REPLACE BCM

Replace BCM. Refer to BCS-80, "Removal and Installation".

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

(P)CONSULT

- 1. Enter "Re/Programming, Configuration".
- 2. If "Before Replace ECU" operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press "Confirm" to write vehicle specification. Refer to BCS-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)

>> Work End.

CONFIGURATION (BCM)

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INSPECTION AND ADJUSTMENT

[BCM] < BASIC INSPECTION >

CONFIGURATION (BCM): Description

INFOID:0000000009174898

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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"	Reads the vehicle configuration of current BCM.Saves the read vehicle configuration.
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

CAUTION:

 When replacing BCM, you must perform "Select Saved Data List" or "After Replace ECU" with CON-SULT.

Complete the procedure of "Select Saved Data List" or "After Replace ECU" in order.

- If you set incorrect "Select Saved Data List" or "After Replace ECU", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- Never perform "Select Saved Data List" or "After Replace ECU" except for new BCM.

CONFIGURATION (BCM): Work Procedure

INFOID:0000000009174899

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"

(P)CONSULT

Select "After Replace ECU" or "Manual Configuration".

- Identify the correct model and configuration list. Refer to BCS-66, "CONFIGURATION (BCM): Configuration List".
- 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.

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.

When "Completed", select "End".

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> Work End.

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [BCM]

CONFIGURATION (BCM): Configuration List

INFOID:0000000009174900

CAUTION:

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

MANUAL SETTING ITEM				
Items	Setting value			
I-KEY	WITH ⇔ WITHOUT			
DTRL	WITH ⇔ WITHOUT			
AUTO DOOR UNLOCK TIMING	WITH I-KEY ⇔ W/O I-KEY			

^{⇔:} Items which confirm vehicle specifications

TRANSIT MODE CANCEL OPERATION [BCM] < BASIC INSPECTION > TRANSIT MODE CANCEL OPERATION Description INFOID:0000000009174901 • 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. Do not cancel transit mode during storage of the vehicle. Always cancel transit mode before delivery of the vehicle to customer. Work Procedure INFOID:0000000009174902 1.TRANSIT MODE CANCEL OPERATION Turn ignition switch OFF. 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

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

>> WORK END

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BCS-67 Revision: May 2013 2014 Pathfinder **BCS**

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000009174903

Refer to LAN-11, "CAN COMMUNICATION SYSTEM: System Description".

DTC Logic

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. Transmission Receiving (ECM) Receiving (VDC/TCS/ABS) Receiving (METER/M&A) Receiving (TCM) Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:0000000009174905

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-49, "Intermittent Incident".

Revision: May 2013 BCS-68 2014 Pathfinder

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000009174907

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

Description INFOID.000000009174908

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

DTC Logic

DTC DETECTION LOGIC

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.	ABS systemCombination meter systemCAN bus harness

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION

- 1. Erase the DTC.
- 2. Turn ignition switch OFF.
- 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:0000000009174910

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

Perform Self Diagnostic Result of ABS with CONSULT. Refer to <u>BRC-32</u>, "CONSULT Function".

Is any DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to <u>BRC-42, "DTC Index"</u>.

NO >> GO TO 2.

${f 2.}$ 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 <u>BRC-65</u>, "<u>Diagnosis Procedure</u>".

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-19, "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-49, "Intermittent Incident".

	B2562 LOW VOLTA	
< DTC/CIRCUIT DI		[BCM]
B2562 LOW V	OLTAGE	
DTC Logic		INFOID:000000009174911
	1.0010	
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	Harness or connector (power supply circuit) Vehicle battery
DTC CONFIRMAT	ION PROCEDURE	
1. DTC CONFIRMA	ATION	
for 120 seconds Is any DTC detected YES >> Refer to NO >> Inspecti	s or more. d? D <u>BCS-71, "Diagnosis Procedure"</u> . on End.	after the ignition switch has been turned ON
Diagnosis Proce	edure	INFOID:0000000009174912
${f 1}$. CHECK BATTER	RY VOLTAGE	
Check battery voltag		
	battery and retest. Refer to CHG-14, "Work 7, "Work Flow (Without EXP-800 NI or GR8-1	Flow (With EXP-800 NI or GR8-1200 NI)" or 200 NI)".
_	R SUPPLY AND GROUND CIRCUIT	
	supply and ground circuit. Refer to BCS-74, "	Diagnosis Procedure".
Is the inspection res		
YES >> GO TO		
NO >> Repair of 3. BCM SELF DIAG	or replace harness or connectors.	
O. DOW SELF DIAG	JINOSTIO RESULT	

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

Is DTC B2562 CRNT?

>> Replace BCM. Refer to <u>BCS-80, "Removal and Installation"</u>. >> Refer to <u>GI-49, "Intermittent Incident"</u>. YES

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BCS-71 Revision: May 2013 2014 Pathfinder

B259A ROOM LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

B259A ROOM LAMP FUSE

DTC Logic

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.	

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION

- 1. Erase DTC.
- 2. Turn ignition switch OFF.
- 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:0000000009174914

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

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

ВСМ		Ground	Voltage (Approx.)	
Connector Terminal		Ordana		
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

- 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		Giodila		
M81	129	_	No	

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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:0000000009174915

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

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

В	BCM		Voltage (Approx.)	
Connector Terminal		Ground		
M81	131		Rattery voltage	
IVIO I	139	_	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

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

В	BCM Ground Continuity		Continuity	
Connector			Continuity	
M81	134		Yes	
IVIO I	143	_	les	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000009174916

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	ВС	BCM		Combination switch	
	Connector	Terminal	Connector	Terminal	Continuity
INPUT 1		79		11	
INPUT 2		78		9	
INPUT 3	M19	77	M28	7	Yes
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.

Cianal	В	CM		Continuity
Signal	Connector	Terminal		Continuity
INPUT 1		79		
INPUT 2		78	Ground	
INPUT 3	M19	77		No
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	В	CM	Ground	Voltage		
Signal	Connector	Terminal	Giouna	Voltage		
INPUT 1		79				
INPUT 2		78				
INPUT 3	M19	77	_	Refer to <u>BCS-30, "Ref-</u> erence Value".		
INPUT 4		76		<u>oronos valas</u> .		
INPUT 5		75				

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COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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]

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COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000009174917

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

$oldsymbol{2}$. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check continuity between BCM connector M18 and ground.

Cianal	В	CM		Continuity		
Signal	Connector	Terminal		Continuity		
OUTPUT 1		14				
OUTPUT 2		13	Ground			
OUTPUT 3	M18	12		No		
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.
- Turn ignition switch ON.
- 3. Check voltage between BCM connector M18 and ground.

Signal	В	CM	Ground	Voltage		
Signal	Connector	Terminal	Ground	Voltage		
OUTPUT 1		14				
OUTPUT 2		13				
OUTPUT 3	M19	12		Refer to BCS-30, "Ref- erence Value".		
OUTPUT 4		11		<u> </u>		
OUTPUT 5		10				

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COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

Is the inspection result normal?

>> Replace BCM. Refer to <u>BCS-80, "Removal and Installation"</u>.
>> Replace the combination switch. Refer to <u>BCS-81, "Removal and Installation"</u>. NO

COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS > [BCM]

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table

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

Malfunction item: ×

Α

В

D

Е

F

Н

								Data	monito	or item							
Malfunction combination	FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	INT VOLUME	RR WIPER ON	RR WIPER INT	RR WASHER SW	TURN SIGNAL R	TURN SIGNAL L	TAIL LAMP SW	HI BEAM SW	HEAD LAMP SW 1	HEAD LAMP SW 2	PASSING SW	AUTO LIGHT SW	FR FOG SW
A		×	×						×	×							
В	×			×									×		×		
С					×			×				×		×			
D					×		×				×					×	
E					×	×											×
F	×				×		×										
G			×		×	×		×									
Н		×		×												×	
1										×				×	×		×
J									×		×	×	×				
K		All Items															
L			If only	one it	tem is	detect	ed or t	he iter	n is no	t appli	cable t	o the	combin	ations	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
Α	Combination switch INPUT 1 circuit	
В	Combination switch INPUT 2 circuit	
С	Combination switch INPUT 3 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-75, "Diagnosis Procedure".
D	Combination switch INPUT 4 circuit	part. Neier to boo-13, bragnosis i rocedure.
E	Combination switch INPUT 5 circuit	
F	Combination switch OUTPUT 1 circuit	
G	Combination switch OUTPUT 2 circuit	
Н	Combination switch OUTPUT 3 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to BCS-77, "Diagnosis Procedure".
1	Combination switch OUTPUT 4 circuit	ang part. Note: to <u>boo 77. Diagnosis i foccurie</u> .
J	Combination switch OUTPUT 5 circuit	
K	BCM	Replace BCM. Refer to BCS-80. "Removal and Installation".
L	Combination switch	Replace the combination switch. Refer to BCS-81, "Removal and Installation".

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REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

Removal and Installation

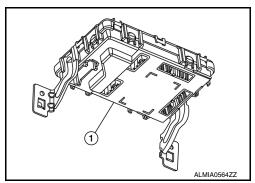
INFOID:0000000009174919

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-90, "Removal and Installation".
- 2. Remove the combination meter. Refer to MWI-82, "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.
- Be sure to perform the system initialization (NATS) when replacing BCM. Refer to <u>BCS-64, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Work Procedure"</u>.
- When replacing BCM, if new BCM does not come with keyfobs attached, all existing keyfobs must be re-registered.

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Α

В

D

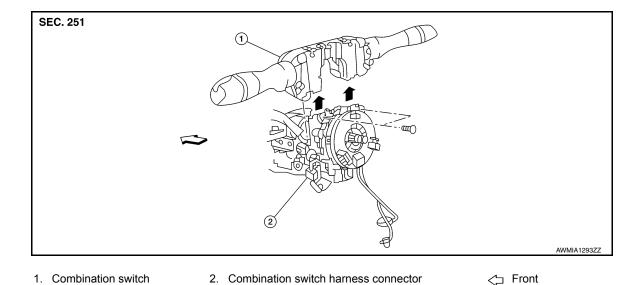
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COMBINATION SWITCH

Exploded View



Removal and Installation

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REMOVAL

- 1. Remove the steering wheel. Refer to ST-44, "Removal and Installation".
- 2. Remove the steering column covers. Refer to IP-17, "Removal and Installation".
- Remove the combination switch screws.
- Disconnect the harness connector from the combination switch and remove.

INSTALLATION

Installation is in the reverse order of removal.

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