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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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PREPARATION

< PREPARATION > [BCM]

PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000012196396

The actual shape	e of the tools ma	v differ from thos	se illustrated here.

Tool number (TechMate No.) Tool name		Description
—(J-50190) Signal Tech II	ALEIA0131ZZ	Activate and display TPMS transmitter IDs Display tire pressure reported by the TPMS transmitter Read TPMS DTCs Register TPMS transmitter IDs Test remote keyless entry keyfob relative to signal strength Check Intelligent Key relative signal strength Confirm vehicle Intelligent Key antenna signal strength Compatible with future sensors Equipped with a display

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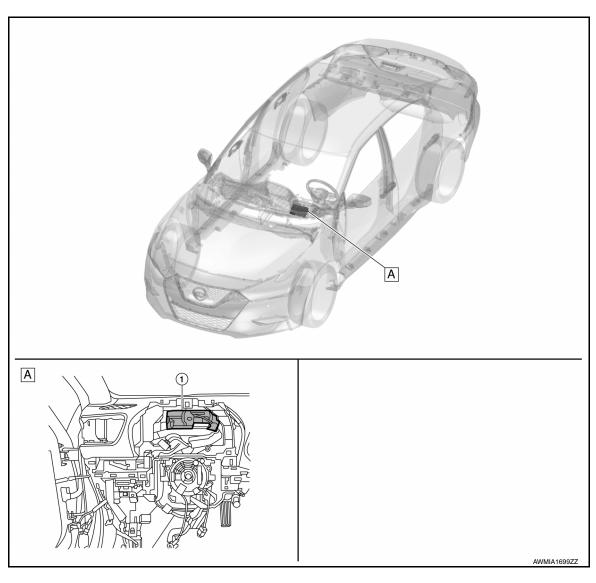
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SYSTEM DESCRIPTION

COMPONENT PARTS
BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: Component Parts Location

INFOID:0000000011934009



- A. LH side of dash (view with instrument panel removed)
- 1. BCM

POWER CONSUMPTION CONTROL SYSTEM

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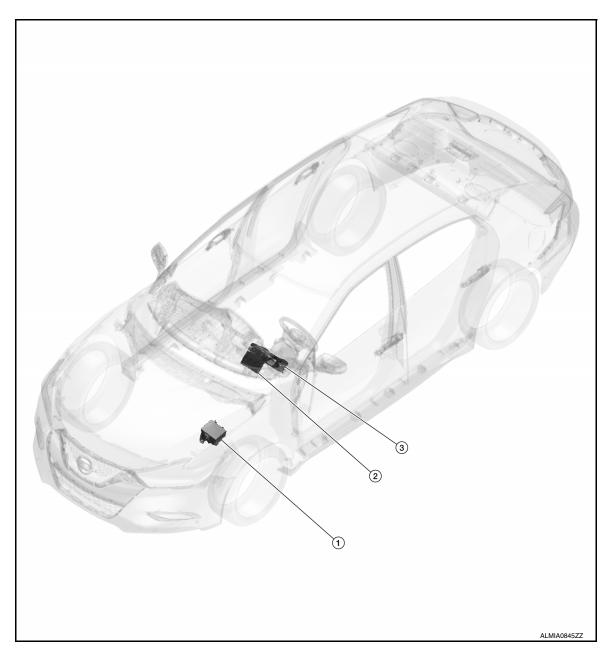
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POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location

INFOID:0000000011934016



1. IPDM E/R 2. BCM 3. Combination meter

SYSTEM

[BCM] < SYSTEM DESCRIPTION >

SYSTEM BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: System Description

INFOID:0000000011934008

OUTLINE

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

CAN communication control

In CAN communication, control units are connected with 2 communication lines (CAN-, CAN high) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives the data but selectively reads required information only.

CAN communication signal

Refer to the LAN-32, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart".

BCM FUNCTION LIST

System	Refer to
Combination switch reading system	BCS-9, "COMBINATION SWITCH READING SYSTEM: System Description"
Signal buffer system	BCS-13. "SIGNAL BUFFER SYSTEM : System Description"
Power consumption control system	BCS-13, "POWER CONSUMPTION CONTROL SYSTEM : System Description"
Shipping mode control system	BCS-15. "SHIPPING MODE CONTROL SYSTEM: System Description"
Auto light system	EXL-12, "AUTO LIGHT SYSTEM: System Description" (LED type headlamp) EXL-135, "AUTO LIGHT SYSTEM: System Description" (Halogen type headlamp)
Turn signal and hazard warning lamp system	EXL-14, "TURN SIGNAL AND HAZARD WARNING LAMP SYS- TEM: System Description" (LED type headlamp) EXL-137, "TURN SIGNAL AND HAZARD WARNING LAMP SYS- TEM: System Description" (Halogen type headlamp)
Headlamp system	EXL-11, "HEADLAMP SYSTEM: System Description" (LED type headlamp) EXL-134, "HEADLAMP SYSTEM: System Description" (Halogen type headlamp)
Front fog lamp system	EXL-16, "FRONT FOG LAMP SYSTEM: System Description" (LED type headlamp) EXL-139, "FRONT FOG LAMP SYSTEM: System Description" (Halogen type headlamp)
Exterior lamp battery saver system	EXL-17, "EXTERIOR LAMP BATTERY SAVER SYSTEM: System Description" (LED type headlamp) EXL-140, "EXTERIOR LAMP BATTERY SAVER SYSTEM: System Description" (Halogen type headlamp)
Daytime running light system	EXL-13, "DAYTIME RUNNING LIGHT SYSTEM: System Description" (LED type headlamp) EXL-136, "DAYTIME RUNNING LIGHT SYSTEM: System Description" (Halogen type headlamp)

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System		Refer to	
Back-up lamp system		EXL-16, "BACK-UP LAMP SYSTEM : System Description" (LED type headlamp) EXL-139, "BACK-UP LAMP SYSTEM : System Description" (Halogen type headlamp)	
Parking, license plate, side marker and tail lamp system		EXL-15, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Description" (LED type headlamp) EXL-137, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Description" (Halogen type headlamp)	
Interior room lamp control system		INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"	
Interior room lamp battery saver system		INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"	
Illumination control system		INL-8, "ILLUMINATION CONTROL SYSTEM : System Description"	
Front wiper and washer system		WW-9, "FRONT WIPER AND WASHER SYSTEM : System Description"	
Warning chime system		WCS-5, "WARNING CHIME SYSTEM : System Description"	
Door lock system		DLK-19, "System Description"	
Trunk open system		DLK-34, "System Description"	
Nissan vehicle immobilizer system		SEC-12, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS: System Description"	
Vehicle security system		SEC 14 WELLOLE SECURITY SYSTEM - System Description"	
Panic alarm		SEC-14, "VEHICLE SECURITY SYSTEM: System Description"	
Rear window defogger system		DEF-6, "System Description"	
	Door lock function	DLK-22, "DOOR LOCK FUNCTION: System Description" (door request switch) DLK-21, "INTELLIGENT KEY SYSTEM: System Description" (Intelligent Key)	
Intelligent Key system/engine start system	Trunk open function	DLK-34, "System Description" (trunk request switch) DLK-21, "INTELLIGENT KEY SYSTEM: System Description" (Intelligent Key)	
	Warning function	DLK-26, "WARNING FUNCTION : System Description"	
	Key reminder function	DLK-29. "KEY REMINDER FUNCTION : System Description"	
	Engine start function	DLK-30, "REMOTE ENGINE START FUNCTION : System Description"	
Power window system		PWC-8, "System Description"	
RAP (retained accessory power) system		BCS-29, "RETAINED PWR : CONSULT Function (BCM - RE-TAINED PWR)"	
TPMS (tire pressure monitor system)		WT-9, "System Description"	

BODY CONTROL SYSTEM: Fail Safe

INFOID:0000000012338816

FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC

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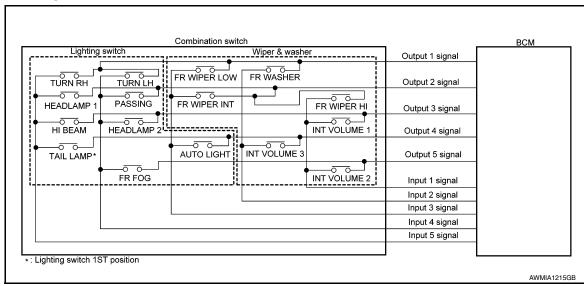
Display contents of CONSULT	Fail-safe	Cancellation
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the 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)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
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
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)

COMBINATION SWITCH READING SYSTEM

COMBINATION SWITCH READING SYSTEM: System Description

INFOID:0000000011934011

SYSTEM DIAGRAM

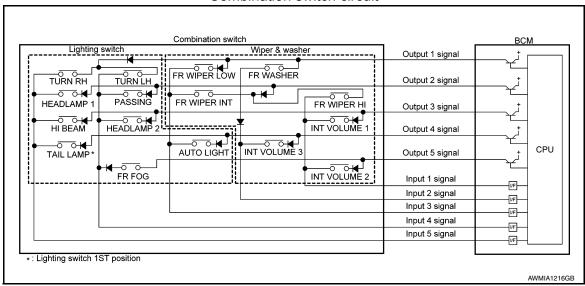


OUTLINE

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

COMBINATION SWITCH MATRIX

Combination switch circuit



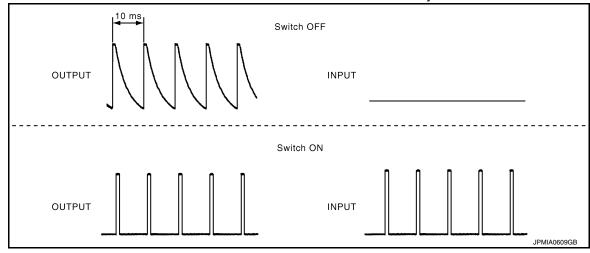
Combination switch INPUT-OUTPUT system list

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

COMBINATION SWITCH READING FUNCTION

Description

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



NOTE:

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

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

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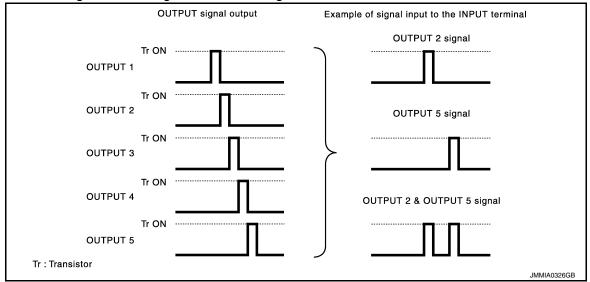
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- It reads this change of the voltage as the status signal of the combination switch.

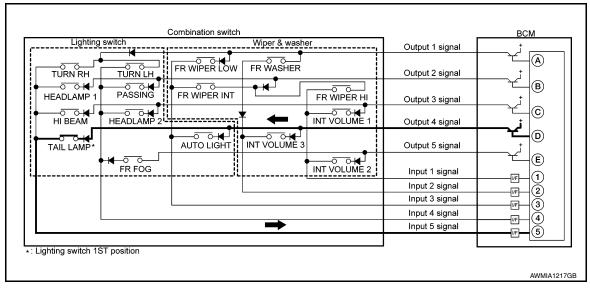


Operation Example

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 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.

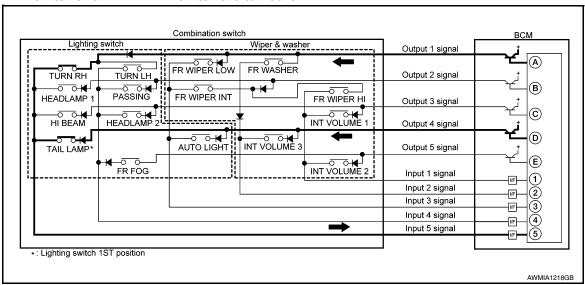
Example 2: When some switches (TRUN RH, TAIL LAMP) are turned ON

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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 dial posi-	Intermittent oper-	INT VOLUME switch ON/OFF status			
tion	alion delay inter-	INT VOLUME 1 switch	INT VOLUME 2 switch	INT VOLUME 3 switch	
1		ON	ON	ON	
2	Short ↑	ON	ON	OFF	
3	·	ON	OFF	OFF	
4		OFF	OFF	OFF	
5		OFF	OFF	ON	
6	↓ Long	OFF	ON	ON	
7	23119	OFF	ON	OFF	

SIGNAL BUFFER SYSTEM

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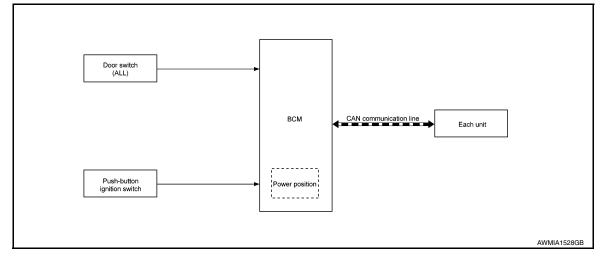
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SIGNAL BUFFER SYSTEM : System Description

INFOID:0000000012262296

SYSTEM DIAGRAM



OUTLINE

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

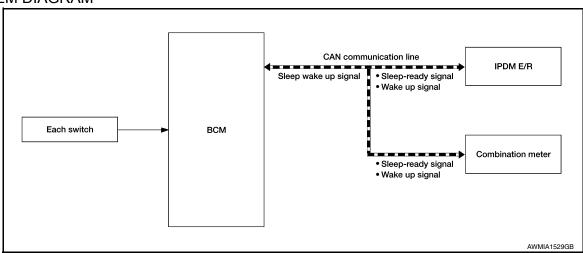
Signal name	Input	Output	Description
 Ignition switch ON signal Ignition switch signal	Engine switch (push switch)	IPDM E/R (CAN)	Inputs the push-button ignition switch (push switch) signal and transmits the ignition switch status judged with BCM via CAN communication.
Door switch signal	Any door switch	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 Description

INFOID:0000000011934015

SYSTEM DIAGRAM



OUTLINE

• BCM incorporates a power saving control function that reduces the power consumption according to the vehicle status.

< SYSTEM DESCRIPTION >

• 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 the each switches changes from 10 ms interval to 60 ms interval.

Sleep mode activation

- BCM receives the sleep-ready signal (ready) from IPDM E/R and 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 perform the low power consumption control when all of the BCM sleep conditions are fulfilled with CAN sleep condition.

Sleep condition

CAN sleep condition	BCM sleep condition
Receiving the sleep-ready signal (ready) from all units Ignition switch: OFF Vehicle security system alarm and panic alarm: No operation Warning lamp: No operation Intelligent Key system buzzer: No operation Trunk room lamp switch status: No change 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 monitor system: Stop

Wake-up operation

- BCM changes from the low power consumption mode to the CAN communication sleep mode when any of the BCM wake-up conditions is 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 is 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.

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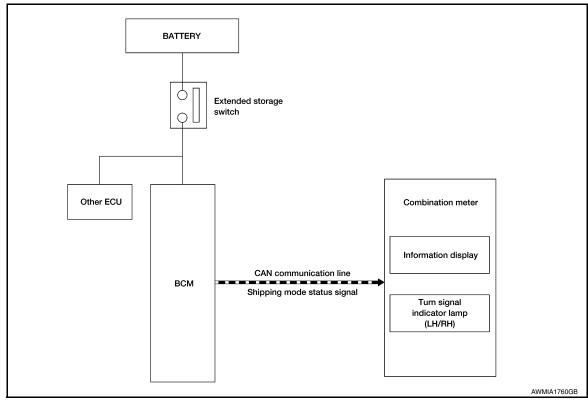
BCM wake-up condition	CAN wake-up condition
Door unlock sensor: OFF→ON, ON→OFF Front door lock assembly LH (key cylinder switch): Lock or unlock Door lock switch: OFF→ON Door unlock switch: OFF→ON Trunk lid opener switch: OFF→ON Power window serial link communication: Receiving Remote keyless entry receiver: Receiving valid key fob	 Receiving the sleep-ready signal (Not-ready) from any units Push-button ignition switch (push switch): OFF→ON Hazard switch: OFF→ON PASSING switch: OFF→ON, ON→OFF TAIL LAMP switch: OFF→ON Front door switch LH: OFF→ON, ON→OFF Front door switch RH: OFF → ON, ON → OFF Trunk room lamp switch: OFF→ON, ON→OFF Front door request switch LH: OFF→ON Front door request switch RH: OFF→ON Trunk opener request switch: OFF→ON Stop lamp switch 2 signal: ON Remote keyless entry receiver: Receiving valid key fob

SHIPPING MODE CONTROL SYSTEM

SHIPPING MODE CONTROL SYSTEM: System Description

INFOID:0000000012248914

SYSTEM DIAGRAM



DESCRIPTION

- The BCM switches the status (shipping mode or normal mode) by itself according to the extended storage switch condition, and transmits the shipping mode status signal to the combination meter and each unit via CAN communication.
- · When the shipping mode function is activated, the control units will not detect DTCs.
- BCM control functions are limited in shipping mode. Refer to <u>BCS-81, "Description"</u>.
- When the BCM is in shipping mode, a message may be shown in the combination meter or display.
- For shipping mode cancel operation refer to BCS-66, "Work Procedure".

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DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011934017

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	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Trunk	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×	×			
TPMS	AIR PRESSURE MONITOR		×	×	×			

FREEZE FRAME DATA (FFD)

< SYSTEM DESCRIPTION >

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

CONSULT screen item	Indication/Unit	Description			
Vehicle Speed	km/h	Vehicle speed at the moment a particular DTC is detected			
Odo/Trip Meter	km	Total mileage (Odomete	r value) at the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*).		
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)		
	LOCK>ACC		While turning power supply position from "LOCK"*to "ACC"		
	ACC>ON		While turning power supply position from "ACC" to "IGN"		
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopped and selector lever is in P position.)		
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)		
RUN	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)		
	ACC>OFF		While turning power supply position from "ACC" to "OFF"		
	OFF>LOCK	Power position status at the moment a particular DTC is detected*	While turning power supply position from "OFF" to "LOCK"*		
Vehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"		
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"		
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode		
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode		
	LOCK		Power supply position is "LOCK" (Ignition switch OFF)*		
	OFF		Power supply position is "OFF" (Ignition switch OFF)		
	ACC		Power supply position is "ACC" (Ignition switch ACC)		
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)		
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)		
	CRANKING		Power supply position is "CRANKING" (At engine cranking)		
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition is switched OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 			

- *: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met:
- · Closing door
- · Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

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

DOOR LOCK

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000011934018

SELF DIAGNOSTIC RESULT Refer to BCS-53, "DTC Index".

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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 trunk opener 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 trunk 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 [OTR ULK/AS UNLK/DR UNLK/ALL UNLK/ALL LCK].

WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.
DOOR LOCK-UNLOCK SET	Off	Automatic door locks function OFF.
AUTO UNLOCK TYPE	MODE2	Driver door only unlocks automatically.
AUTO UNLOCK TIPE	MODE1*	All doors unlock automatically.
	MODE3	This mode is not used.
AUTO LOCK FUNCTION	MODE2	Doors lock automatically when shifted out of P (park).
AUTO LOCK FUNCTION	MODE1*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).
	Off	_
	MODE3	This mode is not used.
AUTO UNLOCK FUNCTION	MODE2	Doors unlock automatically when shifted into P (park).
AUTO UNLOCK FUNCTION	MODE1*	Doors unlock automatically when ignition is switched from ON to OFF.
	Off	_
OLONATURE LIQUE OFFINO	On*	Signature light setting ON.
SIGNATURE LIGHT SETTING	Off	Signature light setting OFF.

^{* :} Initial setting

REAR DEFOGGER

REAR DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

INFOID:0000000011934019

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

< SYSTEM DESCRIPTION > [BCM]

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)

INFOID:0000000011934020

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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.
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].

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000011934021

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 trunk switch
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch

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< SYSTEM DESCRIPTION >

[BCM]

Monitor Item [Unit]	Description
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
TRNK/HAT MNTR [ON/OFF]	Indicates condition of trunk room lamp 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].
CARGO LAMP TEST	This test is able to check cargo 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.

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

HEAD LAMP

HEAD LAMP: CONSULT Function (BCM - HEAD LAMP)

INFOID:0000000011934022

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	

< SYSTEM	DESCRIE	ZIONI S

VEH SPEED 1 [km/h]

[BCM]

Monitor Item [Unit]		Description		
DOOR SW-RR [On/Off]	Indicates co	Indicates condition of rear door switch RH		
DOOR SW-RL [On/Off]	Indicates co	Indicates condition of rear door switch LH		
DOOR SW-BK [On/Off]	Indicates co	Indicates condition of trunk switch		
OPTI SEN (DTCT) [V]	Indicates vo	oltage signal from optical sensor		
OPTI SEN (FILT) [V]	Indicates vo	oltage signal from optical sensor		
OPTICAL SENSOR [On/Off]	Indicates co	ondition of optical sensor		
ACTIVE TEST				
Test Item		Description		
FR FOG LAMP	This test is a	able to check front fog lamp operation [On/Off].		
DAYTIME RUNNING LIGHT	This test is a	able to check daytime running light operation [LH/RH/Off].		
ILL DIM SIGNAL	This test is a	able to check head lamp illumination dimming operation [On/Off].		
WORK SUPPORT				
Support Item	Setting	Description		
TAULOUT ON	MODE2*	Auto lamp function ON.		
TWILIGHT ON	MODE1	Auto lamp function OFF.		
WIPER LINK	MODE4	This mode is not used.		
	MODE3*	Wiper link function operates in INT, LOW and HI.		
	MODE2	Wiper link function operates in LOW and HI.		
	MODE1	Wiper link function OFF.		
	MODE4	Less sensitive than normal setting (turns ON later).		
CUSTOM A/LIGHT SETTING	MODE3	More sensitive than MODE2.		
OOTOM/VEIGHT CETTING	MODE2	More sensitive than normal setting (turns ON earlier).		
	MODE1*	Normal setting.		
	MODE 8			
	MODE 7			
	MODE 6			
ILL DELAY SET	MODE 4	Auto lamp delay timer.		
iee been de i	MODE 5			
	MODE 3			
	MODE 2			
	MODE 1*			
* : Initial setting WIPER				
WIPER: CONSULT Func	tion (BCM -	WIPER) INFOID:00000001193402		
DATA MONITOR				
Monitor Item [Unit]		Description		
PUSH SW [On/Off]	Indicates co	ndition of push button ignition switch		

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Indicates vehicle speed signal received from ABS on CAN communication line

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]		
FR WIPER STOP [On/Off]	Indicates front wiper auto stop signal received from IPDM E/R on CAN communication line	
INT VOLUME [1 – 7]	Indicates condition of intermittent wiper operation of combination switch	
RAIN SENSOR [On/Off]	Indicates condition of rain sensor.	

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting	Description
RAIN SENSOR	On*	Rain sensor function ON.
	Off	Rain sensor function OFF
WIPER SPEED SETTING	On*	Wiper speed setting function ON.
	Off	Wiper speed setting function OFF.

^{* :} Initial setting

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

INFOID:0000000011934024

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]	- indicates condition of turn signal function of combination switch	
HAZARD SW [On/Off]	Indicates condition of hazard switch	
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key	
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key	
RKE-PANIC [On/Off]	Indicates condition of panic alarm signal from Intelligent Key	

ACTIVE TEST

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

WORK SUPPORT

Support item	Setting	Description
3-TIME FLASHER SETTING	ON*	3-Time flasher setting ON.
	OFF	3-Time flasher setting OFF.

^{*:} Initial setting

[BCM] < SYSTEM DESCRIPTION >

AIR CONDITIONER

AIR CONDITIONER: CONSULT Function (BCM - AIR CONDITIONER)

INFOID:0000000012227398

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DATA MONITOR

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.
THERMO AMP [On/Off]	Indicates condition of thermo amp.

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

DATA MONITOR

Monitor Item [Unit]	Main	Description	F
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH	
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH	G
REQ SW -BD/TR [On/Off]	×	Indicates condition of trunk opener request switch	
PUSH SW [On/Off]		Indicates condition of push button ignition switch	
SHFTLCK SLNID PWR SPLY [On/Off]		Indicates condition of shiftlock solenoid power supply	Н
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch	
BRAKE SW 2 [On/Off]		Indicates condition of brake switch	ı
DETE/CANCL SW [On/Off]	×	Indicates condition of P position	
SFT PN/N SW [On/Off]	×	Indicates condition of P or N position	
UNLK SEN -DR [On/Off]	×	Indicates condition of door unlock sensor	J
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	k
DETE SW -IPDM [On/Off]		Indicates condition of detent switch received from TCM on CAN communication line	L
SFT PN -IPDM [On/Off]		Indicates condition of P or N position from TCM on CAN communication line	
SFT P -MET [On/Off]		Indicates condition of P position from TCM on CAN communication line	В
SFT N -MET [On/Off]		Indicates condition of N position from IPDM E/R on CAN communication line	В
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	1
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.	F
DOOR STAT -RL [LOCK/READY/UNLK]	×	Indicates condition of rear left side door status.	
ID OK FLAG [Set/Reset]		Indicates condition of intelligent key ID	
PRMT ENG START [Set/Reset]		Indicates condition of engine start possibility from intelligent key	
I-KEY OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.	

Monitor Item [Unit]	Main	Description
ID AUTHENT CANCEL TIMER [under a stop]		Indicates condition of Intelligent Key ID authentication.
ACC BATTERY SAVER [under a 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.
CRANKING TME [sec]		Indicates condition of engine cranking time from Intelligent Key.
SHORT CRANK		Indicates condition of condition of short crank from intelligent key
ST RLY -REQ		Indicates condition of starter relay.
IGN RLY 1 -REQ		Indicates condition of ignition 1 relay.
IGN RLY 2 -REQ		Indicates condition of ignition 2 relay.
DETE SW PWR [On/Off]		Indicates condition of park position switch voltage.
IGN RLY 3 -REQ		Indicates condition of ignition 3 relay.
ACC RLY -REQ		Indicates condition of ACC relay.
PRBT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.
TRNK/HAT MNTR [On/Off]		Indicates condition of trunk lid.
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 trunk 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		Indicates condition of trunk signal from Intelligent Key.
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.

ACTIVE TEST

Test Item	Description
INTELLIGENT KEY LINK (CAN)	This test is able to check Intelligent Key identification number [Off/ID No1/ID No2/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 trunk 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].

< SYSTEM DESCRIPTION >

INSIDE ANT DIAGNOSIS

[BCM]

Test Item			Description	1
IGNITION RELAY	This test is	s able to che	ck ignition relay operation [On/Off].	F
REVERSE LAMP TEST	This test is	s able to che	ck reverse lamp illumination operation [On/Off].	
DOOR HANDLE LAMP TEST	This test is	s able to che	ck door handle lamp illumination operation [On/Off].	[
DR SEAT LAMP TEST	This test is	s able to che	ck driver seat lamp operation [On/Off].	
AS SEAT LAMP TEST	This test is	s able to che	ck passenger seat lamp operation [On/Off].	
SHIFT SPOT LAMP TEST	This test is	s able to che	ck shift spot lamp operation [On/Off].	(
TRUNK/LUGGAGE LAMP TEST	This test is	s able to che	ck cargo lamp illumination operation [On/Off].	
KEYFOB PW TEST			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		tting	Description	
IGN/ACC BATTERY SAVER	On*		Battery saver function ON.	
	Off		Battery saver function OFF.	
REMOTE ENGINE STARTER	On*		Remote engine start function ON.	
	Off		Remote engine start function OFF.	
	BUZZER*		Buzzer reminder function by door lock/unlock request switch ON.	
ANSWERBACK I-KEY LOCK UNLOCK	HORN		Horn chirp reminder function by door lock request switch ON.	
	Off		No reminder function by door lock/unlock request switch.	
	INVALID		This mode is not used.	
ANSWERBACK KEYLESS LOCK 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.	
ANSWER BACK	On*		Horn chirp reminder when doors are locked with Intelligent Key.	
ANOWER BAOK	Off		No horn chirp reminder when doors are locked with Intelligent Key.	
RETRACTABLE MIRROR SET	On		Retractable mirror set ON.	
TETTO TABLE WINKON OF I	Off*		Retractable mirror set OFF.	
LOCK/UNLOCK BY I-KEY	On*		Door lock/unlock function from Intelligent Key ON.	
EGGIOGREGOR DI FILET	Off		Door lock/unlock function from Intelligent Key OFF.	
ENGINE START BY I-KEY	On*		Engine start function from Intelligent Key ON.	В
LINOINE GIAINI DI I-INET	Off		Engine start function from Intelligent Key OFF.	
TRUNK/GLASS HATCH OPEN	On*		Buzzer reminder function by trunk request switch ON.	
INCINIVIDADO HATOR OFEIN	Off		Buzzer reminder function by trunk request switch OFF.	
CONFIRM KEY FOB ID	-	_	Intelligent Key ID code can be checked.	
		70 msec		
	Start	100 msec	Starter motor operation duration times.	
CLIODE CDANIKING OLIEDLE	Otart	100 111000		
SHORT CRANKING OUTPUT	Otart	200 msec	The state of the s	

This function allows inside key antenna self-diagnosis.

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

^{*:} Initial Setting

COMB SW

COMB SW: CONSULT Function (BCM-COMB SW)

INFOID:0000000011934026

DATA MONITOR

Monitor Item [Unit]	Description
FR WIPER HI [On/Off]	
FR WIPER LOW [On/Off]	Indicates condition of winer eneration of combination quitab
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
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:0000000011934027

ECU IDENTIFICATION

The BCM part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to BCS-53, "DTC Index".

WORK SUPPORT

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

CONFIGURATION

Refer to BCS-64, "CONFIGURATION (BCM): Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-14, "CAN Diagnostic Support Monitor".

IMMU

< SYSTEM DESCRIPTION > [BCM]

IMMU: CONSULT Function (BCM - IMMU)

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SELF DIAGNOSTIC RESULT Refer to <u>BCS-53</u>, "DTC <u>Index"</u>.

DATA MONITOR

Monitor Item [Unit]	Description
CONFRM ID ALL [Yet/DONE]	
CONFIRM ID4 [Yet/DONE]	
CONFIRM ID3 [Yet/DONE]	Switches to DONE when a registered Intelligent Key is inserted into the key slot.
CONFIRM ID2 [Yet/DONE]	
CONFIRM ID1 [Yet/DONE]	
NOT REGISTERED	Indicates [ID OK] when key ID that is registered is received or is not yet received. Indicates {ID NG] when key ID that is not registered is received.
TP 4 [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 ID which has been registered.
TP 1 [Yet/DONE]	
PUSH SW [On/Off]	Indicates condition of push button ignition switch
TCU ID [Yet/DONE]	Indicates condition of telematics control unit

ACTIVE TEST

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

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000011934029

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	
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 trunk 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	
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk room lamp 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	

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< SYSTEM DESCRIPTION >

[BCM]

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:0000000011934030

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 CANCEL SW [On/Off]	Indicates condition of trunk lid opener cancel switch
TR/BD OPEN SW [On/Off]	Indicates condition of trunk lid opener switch
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk room lamp switch
RKE-TR/BD [On/Off]	Indicates condition of trunk open signal from Intelligent Key

THEFT ALM

THEFT ALM: CONSULT Function (BCM - THEFT ALM)

INFOID:0000000011934031

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 trunk opener 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
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 trunk 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 trunk lid opener switch
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk room lamp 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 trunk open signal from Intelligent Key

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting	Description	
SECURITY ALARM SET	On	Security alarm ON	
OLOGICI ALARMI GLI	Off	Security alarm OFF	

RETAINED PWR

RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000011934032

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:0000000011934033

DATA MONITOR

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

ACTIVE TEST

Test Item	Description	
OIL PRESSURE SW	This test is able to check the oil pressure warning lamp operation [On/Off].	
BRAKE SWITCH	This test is able to check the brake switch operation [On/Off].	

AIR PRESSURE MONITOR

AIR PRESSURE MONITOR: CONSULT Function (BCM - AIR PRESSURE MONI-TOR) INFOID:0000000011934034

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

SELF DIAGNOSTIC RESULT

NOTE:

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

Refer to BCS-53, "DTC Index".

DATA MONITOR

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[BCM]

Monitor Item	Condition	Specification	
AIR PRESS FL	Drive vehicle for a few minutes.		
AIR PRESS FR	or	Tire pressure (kPa, kg/cm ² or Psi)	
AIR PRESS RR	Ignition switch ON and activation tool is trans- mitting activation signals.		
AIR PRESS RL	Tilitting activation signals.		
ID REGST FL1		Registration ID: Green No registration: Red	
ID REGST FR1	Ignition switch ON		
ID REGST RR1	Ignition switch on		
ID REGST RL1			
WARNING LAMP	Ignition switch ON	Low tire pressure warning lamp on: ON Low tire pressure warning lamp off: OFF	
BUZZER	Ignition switch ON	Buzzer in combination meter on: ON Buzzer in combination meter off: OFF	

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].	

< ECU DIAGNOSIS INFORMATION >

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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

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	Under a stop
ACC RLY -REQ	When BCM is not requesting accessory relay activation.	Off
ACC RLT -REQ	When BCM is requesting accessory relay activation.	On
AID COND CW	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
AS SEAT LAMP TEST	Passenger seat lamp ON	On
AS SEAT LAIVIP TEST	Passenger seat lamp OFF	Off
ALITO CONIZ TMD	When the remote engine start timer is OFF.	Off
AUTO CRNK TMR	When the remote engine start timer is ON.	On
ALITO LIQUIT CW	Lighting switch OFF	Off
AUTO LIGHT SW	Lighting switch AUTO	On
BRAKE SW 1	When the brake pedal is released	On
DRAKE SW I	When the brake pedal is depressed	Off
DDAKE CW 2	Brake pedal released	Off
BRAKE SW 2	Brake pedal depressed	On
DUZZED	Buzzer in combination meter OFF	Off
BUZZER	Buzzer in combination meter ON	On
CDL LOCK CW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	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
CONFRIMIN ALL	The key ID matches any key ID registered to BCM.	DONE
CONFIDM 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

< ECU DIAGNOSIS INFORMATION >

[BCM]

Monitor Item	Condition	Value/Status
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
	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
CONFIRM ID1	The key ID does not match the first key ID registered to BCM.	Yet
CONFIRMIDI	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
CDNIZ DDDT TMD	When the engine start prohibit timer is OFF.	Off
CRNK PRBT TMR	When the engine start prohibit timer is ON.	On
DETE CIAL IDDIA	When selector lever is in P position	Off
DETE SW -IPDM	When selector lever is in any position other than P	On
DETE OW DIAID	When BCM is not supplying power to park position switch.	Off
DETE SW PWR	When BCM is supplying power to park position switch.	On
DETEKOANOL 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
	Trunk closed	Off
DOOR SW-BK	Trunk opened	On
	Front door LH closed	Off
DOOR SW-DR	Front door LH opened	On
	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
DR SEAT LAMP TEST	Driver seat lamp ON	On
	Driver seat lamp OFF	Off
	Engine stopped	Stop
	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run

< ECU DIAGNOSIS INFORMATION >

[BCM]

Monitor Item	Condition	Value/Status
FAN ON SIG	Blower motor fan switch OFF	Off
	Blower motor fan switch ON	On
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On
	Front wiper switch OFF	Off
R WIPER HI	Front wiper switch HI	On
D WIDED INT	Front wiper switch OFF	Off
R WIPER INT	Front wiper switch INT	On
ED WIDED STOD	Any position other than front wiper stop position	Off
FR WIPER STOP	Front wiper stop position	On
HAZARD SW	When hazard switch is not pressed	Off
INCARD 3W	When hazard switch is pressed	On
HEAD LAMP SW 1	Headlamp switch OFF	Off
ILAD LAWIF SW 1	Headlamp switch 1st	On
HEAD LAMP SW 2	Headlamp switch OFF	Off
ILAD LAWIF SW Z	Headlamp switch 1st	On
HI BEAM SW	High beam switch OFF	Off
II DEMINI ON	High beam switch HI	On
D AUTHENT CANCEL IIMER	When I-Key authentication is OFF.	Under a stop
D OK FLAG	Ignition switch ACC or ON	Reset
D OINT LAG	Ignition switch OFF	Set
D REGST FL1	ID registration of front left tire incomplete	YET
ID REGST FL1	ID registration of front left tire complete	DONE
D DECST ED4	ID registration of front right tire incomplete	YET
D REGST FR1	ID registration of front right tire complete	DONE
D REGST RL1	ID registration of rear left tire incomplete	YET
DINEGOLIKLI	ID registration of rear left tire complete	DONE
D DECST DD4	ID registration of rear right tire incomplete	YET
D REGST RR1	ID registration of rear right tire complete	DONE
CN DIV1 E/D	Ignition switch OFF or ACC	Off
GN RLY1 F/B	Ignition switch ON	On
CN DIV 1 DEC	Ignition switch OFF or ACC	Off
GN RLY 1 -REQ	Ignition switch ON	On
CN DIV 2 DEC	Ignition switch OFF or ACC	Off
IGN RLY 2 -REQ	Ignition switch ON	On
IGN RLY 3REQ	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
NT VOLUME	Wiper intermittent dial is in dial position 1 - 7	1 - 7
	I-Key OFF	Key OFF
-KEY OK FLAG	I-Key ON	Key ON

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< ECU DIAGNOSIS INFORMATION >

[BCM]

Monitor Item	Condition	Value/Status
KEY CYL LK-SW	Door key cylinder LOCK position	Off
	Door key cylinder other than LOCK position	On
KEY CYL LINI CW	Door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Door key cylinder other than UNLOCK position	On
NOT REGISTERED	BCM detects registered Intelligent Key ID, or BCM does not detect Intelligent Key ID	ID OK
	BCM detects non-registration Intelligent Key ID	ID NG
OPTI SEN (DTCT)	Bright outside the vehicle	Close to 5V
	Dark outside the vehicle	Close to 0V
OPTI SEN (FILT)	Bright outside the vehicle	Close to 5V
OF IT SEN (FIET)	Dark outside the vehicle	Close to 0V
OPTICAL SENSOR	Optical sensor ON	On
OPTICAL SENSOR	Optical sensor OFF	Off
DA COINIO OW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
DDDT ENO CTDT	When the engine start is prohibited	Reset
PRBT ENG STRT	When the engine start is permitted	Set
DDMT ENG OTDT	When the engine start is prohibited	Reset
PRMT ENG STRT	When the engine start is permitted	Set
DDMT DVE CTDT	When the engine start is prohibited	Reset
PRMT RKE STRT	When the engine start is permitted	Set
DUCH CW	Return ignition switch to LOCK position	Off
PUSH SW	Press ignition switch	On
DUCU OW IDDM	When engine switch (push switch) is not pressed	Off
PUSH SW-IPDM	When engine switch (push switch) is pressed	On
DAIN OFNOOD	Rain sensor OFF	Off
RAIN SENSOR	Rain sensor ON	On
DEAD DEE OW	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
DE0 014/40	When passenger door request switch is not pressed	Off
REQ SW-AS	When passenger door request switch is pressed	On
DEO OW DD/TD	When trunk request switch is not pressed	Off
REQ SW-BD/TR	When trunk 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 rear door request switch LH is not pressed	Off
REQ SW -RL	When rear door request switch LH is pressed	On
250 000 25	When rear door request switch RH is not pressed	Off
REQ SW -RR	When rear door request switch RH is pressed	On
	When LOCK button of Intelligent Key is not pressed	Off
RKE-LOCK	When LOCK button of Intelligent Key is pressed	On
DIVE MODE OVICE	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

< ECU DIAGNOSIS INFORMATION >

[BCM]

Monitor Item	Condition	Value/Status	_
RKE OPE COUN1	Operation frequency of Intelligent Key	0-19	
RKE OPE COUN2	Operation frequency of Intelligent Key	0-19	
DKE DVIIC	When PANIC button of Intelligent Key is not pressed	Off	_
RKE-PANIC	When PANIC button of Intelligent Key is pressed	On	
DIVE DDD	When TRUNK OPEN button of Intelligent Key is not pressed	Off	
RKE PBD	When TRUNK OPEN button of Intelligent Key is pressed	On	_
OVE TO/DD	When TRUNK OPEN button of Intelligent Key is not pressed	Off	_
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	On	_
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	Off	_
RNE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	On	_
OFT NUMET	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 DAI/ALOVA/	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 shift lock.	Off	_
SPLY	When BCM is supplying power to shift lock.	On	_
SHIFT SPOT LAMP	Shift spot lamp ON	On	_
TEST	Shift spot lamp OFF	Off	_
SHORT CRANK	Engine start short crank signal from intelligent key	ОК	_
OT DIV. DE0	Ignition switch OFF or ACC	Off	_
ST RLY -REQ	Ignition switch ON	On	_
	Other than lighting switch 1ST and 2ND	Off	_
TAIL LAMP SW	Lighting switch 1ST or 2ND	On	_
	Thermo amp is OFF	Off	_
THERMO AMP	Thermo amp is ON	On	_
	The ID of the TCU is not registered to BCM	Yet	
TCU ID	The ID of the TCU is registered to BCM	DONE	
	The ID of fourth key is not registered to BCM	Yet	
TP 4	The ID of fourth key is registered to BCM	DONE	
	The ID of third key is not registered to BCM	Yet	_
TP 3	The ID of third key is registered to BCM	DONE	_
	The ID of second key is not registered to BCM	Yet	_
ΓP 2	The ID of second key is registered to BCM	DONE	=
<i>.</i>	The ID of first key is not registered to BCM	Yet	_
TP 1	The ID of first key is registered to BCM	DONE	=
	Trunk closed	Off	_
TRNK/HAT MNTR	Trunk opened	On	_
TR/BD OPEN SW	Trunk opener switch OFF	Off	_
	While the trunk opener switch is turned ON	On	_

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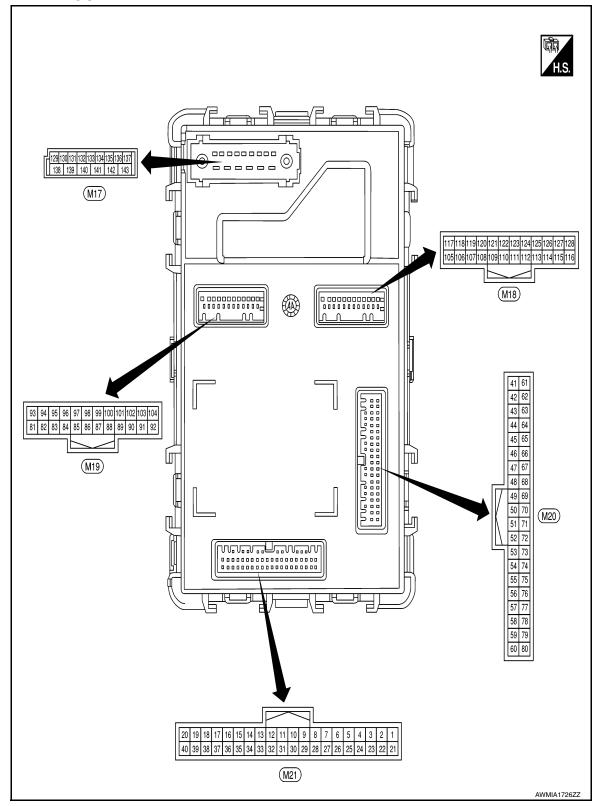
< ECU DIAGNOSIS INFORMATION >

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Monitor Item	Condition	Value/Status
TR CANCEL SW	When trunk cancel switch is pressed	On
	When trunk cancel switch is not pressed	Off
TURN SIGNAL L	Turn signal switch OFF	Off
	Turn signal switch LH	On
TURN SIGNAL R	Turn signal switch OFF	Off
	Turn signal switch RH	On
UNLK SEN-DR	Driver door UNLOCK status	Off
	Driver door LOCK status	On
VEH SPEED 1	While driving, equivalent to speedometer reading	mph, km/h
VEH SPEED 2	While driving, equivalent to speedometer reading	mph, km/h
WARNING LAMP	Low tire pressure warning lamp in combination meter OFF	Off
	Low tire pressure warning lamp in combination meter ON	On

[BCM]

TERMINAL LAYOUT



PHYSICAL VALUES

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	inal No.	Description				
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
1				Push-button igni-	Pressed	0V
(R)	Ground	Engine start switch	Input	tion switch	Not pressed	Battery voltage
3	Ground	Auto light power sup-	Quitnut	Push-button igni-	OFF	0V
(BR)	Ground	ply 5V	Output	tion switch	ACC or ON	5V
4	Ground	Auto light signal	Input	Push-button igni-	When outside of the vehi- cle is bright	Close to 5V
(Y)	Ground	Auto light signal	iliput	tion switch ON	When outside of the vehi- cle is dark	Close to 0V
			Output Push-button ignition switch Input Push-button ignition switch ON Push-button ignition switch ON Push-button ignition switch ON Combination switch (Wiper intermittent dial 4) Input Combination switch (Wiper intermittent dial 4) Combination switch (Wiper intermittent dial 4) Combination switch (Wiper intermittent dial 4) FR FOG OFF TURN RH HEADLAMP 1 HI BEAM OFF TURN LH PASSING HEADLAMP 2 FR FOG OFF FR WIPER LOW FR WIPER INT/AUTO	OFF	0V	
					TURN RH	
				Combination	HEADLAMP 1	(V) 15
10	Ground	Combination switch	Input	switch	HI BEAM	10
(W)	0.000	input 5		tent dial 4)	TAIL LAMP	0 → +10ms PKIB4958J
					OFF	0V
		Combination switch input 4	Input	Combination switch (Wiper intermittent dial 4) PASSING HEADLAMP 2	TURN LH	
	11 Ground				PASSING	(V) 15
11					HEADLAMP 2	10
(BG)	Ground	input 4			0 +10ms PKIB4958J	
-						1.0V
						0V
						(1/)
				Combination	FR WIPER INT/AUTO	(V) 15 10
12 (R)	Ground	Combination switch input 3	Input	switch (Wiper intermit- tent dial 4)	AUTO LIGHT	PKIB4958J
					OFF	0V
				FR WASHER	-	
					RR WASHER	(V) 15
13 (G)	Ground	Combination switch input 2	Input	Combination switch (Wiper intermit- tent dial 4)	INT VOLUME 3	10 5 0
					RR WIPER ON	→ ←10ms
						PKIB4958J 1.0V

< ECU DIAGNOSIS INFORMATION >

	rminal No. Description					Value	
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
			-		OFF	0V	
					FR WIPER HI		
				Carabinatian	INT VOLUME 1	(V) 15	
14	Craund	Combination switch	lan. it	Combination switch	RR WIPER INT	10	
(P)	Ground	input 1	Input	(Wiper intermit- tent dial 4)	INT VOLUME 2	0 + 10ms PKIB4958J	
17 (B)	Ground	Auto light reference ground	Input	Push-button ignition	on switch ON	0V	
					ON	0V	
18 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 JPMIA0014GB 11.3V	
					OFF	Battery voltage	
20) Ground Shift P	lot	Cologian	P position	0V		
(W) Ground Shift P	SIIII P	Input	Selector lever	Any position other than P	Battery voltage		
21	Ground	Step lamp control	Output	Step lamp ON	0V		
(W)	Ground	Otep lamp control	Culput	οισρ ιαπη	OFF	Battery voltage	
25 (BG)	Ground	Brake switch fuse	Input		_	Battery voltage	
26 (Y)	Ground	Shorting input	Input	Push-button ignition	on switch OFF	Battery voltage	
27	Ground	Brake switch lamp	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V	
(G)	Ordana	Brake emior ramp	mpat	Stop tamp switch	ON (brake pedal is depressed)	Battery voltage	
30 (P)	Ground	Driver door lock sta- tus	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB	
					UNLOCK status	0V	
32	Ground	Rear window defog-	Input	Rear window de-	OFF	5V	
(LG)	Giound	ger ON signal	iiiput	fogger switch	ON	0V	
33	Ground	Trunk cancel switch	Input	Trunk cancel	ON	0V	
(W)	Ciound	Traint Carlosi Switch	πραι	switch	OFF	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Win	e color)	Signal name	Input/ Output		Condition	(Approx.)
36 (Y)	Ground	Hazard switch	Input	Hazard switch	Pressed Not pressed	0 V (V) 15 10 5 10 ms JPMIA0012GB 1.1V
39 (L)	Ground	Shift N/P	Input	Selector lever	P or N position Except P and N positions	Battery voltage 0V
48 (SB)	Ground	High side start switch LED	Output	Push-button ignition switch illumination	ON OFF	5.5V 0V
52 (G)	Ground	Audio dongle	Input/ Output	Push-button ignition	on switch OFF	5V
54 (P)	Ground	Power window link	Input/ Output	Push-button ignition switch	ON	(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OF	OFF or ACC	0V Battery voltage
55 (BR)	Ground	Shift N/P	Input/ Output	Ignition switch ON		(V) 15 10 5 0 JPMIA0156GB 8.7 V
59 (P)	Ground	CAN low	Input/ Output		_	_
60 (L)	Ground	CAN high	Input/ Output		_	_
61 (Y)	Ground	Rear defogger relay output	Output	Rear window de- fogger	Active Not activated	Battery voltage 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
(V)	11233	, , , , , , , , , , , , , , , , , , , ,	- make and	tion switch ON	When selector lever is in P or N position and the brake is not depressed	0V
64	Ground	Buzzer output	Output	Outside warning	Sounding	0V
(P)	2.300			buzzer	Not sounding	Battery voltage

< ECU DIAGNOSIS INFORMATION >

[BCM]

	inal No. e color)	Description			Condition	Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
66	Ground	Blower fan relay out-	Output	Push-button igni-	OFF or ACC	0V	
(R)	Ground	put	Output	tion switch	ON	Battery voltage	
67	Ground	Ignition electrical re-	Output	Push-button igni-	OFF or ACC	0V	
(W)	Ground	lay output 2	Output	tion switch	ON	Battery voltage	
68 (P)		Output	Push-button ignition switch ON	Either of the following conditions: • Lighting switch OFF • The area around the vehicle is bright (Shine a light on the optical sensor)	0V		
00				The area around the vehi- cle is dark (Block the light from the optical sensor)	Battery voltage		
69 (L)	Ground	CVT device output	Output	_		Battery voltage	
70		IPDM E/R ignition	Output	Push-button igni-	OFF or ACC	Battery voltage	
	output 1	Output	tion switch	ON	0V		
					ON (pressed)	0V	
71 (V)	Ground	Front door request switch LH	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	
					ON (pressed)	0V	
72 (Y)	Ground	Front door request switch RH	Input	t Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	В

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Condition Condition Condition Condition Condition Combination switch output 5 Combination switch (Wiper intermittent dial 4) FR FOG Condition Combination switch (Wiper intermittent dial 4) FR FOG Combination switch (Wiper intermittent dial 4) FR FOG Condition Co	(Approx.)
Ground Combination switch output 5 Combination switch output 5 Combination switch (Wiper intermittent dial 4) INT VOLUME 2 RR WIPER ON FR FOG	15 10 5 0
(Wiper Intermittent dial 4) RR WIPER ON FR FOG	7.0 – 8.0V
OFF	(11)
Combination	1.2V (V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10
76 (W) Ground Combination switch output 4 Output switch (Wiper intermit-	-
tent dial 4) INT VOLUME 3	3 (V) 15 10
TAIL LAMP	10ms PKIB4958J 1.2V
OFF Combination switch Combination switch	(V) 15 10 5 0 ++10ms PKIB4960J 7.0 - 8.0V
(R) Ground output 3 Output (Wiper intermittent dial 4)	
RR WASHER	(V) 15 10
HEADLAMP 2	10
HI BEAM	→ →10ms

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
78		Combination switch		Combination switch	OFF	(V) 15 10 5 0 ++10ms PKIB4960J 7.0 - 8.0V	
(P) Ground	output 2	Output	(Wiper intermit- tent dial 4)	FR WIPER HI FR WIPER INT/AUTO PASSING	(V) 15 10		
				HEADLAMP 1	0 + 10ms PKIB4958J		
						(V)	
		Combination switch output 1		Combination switch (Wiper intermit- tent dial 4)	OFF	15 10 5 0	
79	Ground					PKIB4960J 7.0 – 8.0V	
(G)					FR WASHER	(V)	
					FR WIPER LOW TURN LH	(V) 15 10 5	
					TURN RH	0 → +10ms PKIB4958J	
					Open (trunk actuator is ac-	1.2V	
80 (BR)	Ground	Trunk/back door open switch	Output	Trunk switch	tivated) Close (trunk actuator is not activated)	Battery voltage 0V	
82 (Y)	Ground	Left rear door switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (when rear door LH opens)	0V	
83		Trunk/back door re-		Trunk request	ON (pressed)	0V	
(SB)	Ground	quest switch	Input	switch	OFF (not pressed)	Battery voltage	
85	Ground	Luggage room lamp	Output	Luggage room	ON	0V	
(BG)			Jaipai	lamp	OFF	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
89 (BR)	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
91 (V)	Ground	Trunk/back door open signal	Output	Trunk open switch	OFF ON Turn signal switch OFF	0V Battery voltage 0V
92 (LG)	Ground	Right rear flasher	Output	Push-button ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5V
93 (V)	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 (W)	Ground	Front door switch RH	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
96 (P)	Ground	Front door switch LH	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (front door LH OPEN)	11.8V 0V
					, , , , , , , , , , , , , , , , , , , ,	

< ECU DIAGNOSIS INFORMATION >

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	inal No.	Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
97 (L)	Ground	Trunk/back door switch	Input	Trunk switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB	В
						11.8V	D
					ON (trunk is open)	0V	
99		Inside key antenna		Push-button ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	E F
(G)	Ground	(luggage room) B	Output		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	Н
100	Ground	Inside key antenna	Outout	Push-button igni-	When Intelligent Key is in the passenger compartment	(V) 15 10 1	J K L
(R)	Ground	(luggage room) A	Output	Output Push-button ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	BC N

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
101	Cround	Outside key antenna	Output	When the trunk request switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(G)	Ground	(rear bumper) B	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
102	Ground	Outside key antenna	Output	When the trunk request switch is operated with push-button ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Clound	(rear bumper) A	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
-					Turn signal switch OFF	0V
103 (Y)	Ground	Left rear flasher	Output	Push-button ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s
					Turn signal switch OFF	6.5V 0V
105 (Y)	Ground	Right front flasher	Output	Push-button ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5V

< ECU DIAGNOSIS INFORMATION >

COIOI)	Terminal No. Description (Wire color)		O and differen		Value	
(-)	Signal name	Input/ Output		Condition	(Approx.)	
				Turn signal switch OFF	0V	
Ground	Door mirror RH turn signal	Output	Push-button ignition switch ON	Turn signal switch ON	(V) 15 10 5 0	
				OFF	6.5V 0V	
Ground	Low side start switch LED	Output	Push-button ignition switch	NOTE: When the illumination brightening/dimming level is in the neutral position ON	10 0 2 ms	
0 1	Shift lock solenoid		nput Selector lever	P position	JSNIA0010GB	
Ground	output	input		Any position other than P	Battery voltage	
	nd Bayaraa sisaad Outsut	Push-button igni-	R position	Battery voltage		
G) Ground Reverse signal C	Output	tion switch ON	Any position other than R	0V		
	100150		Push-button iani-	OFF	Battery voltage	
Ground	ACC LED	Output	tion switch	ACC or ON	0V	
0	ACC mal=	Ot. 1	Push-button igni-	OFF	0V	
Ground	ACC relay output	Output	tion switch	ACC or ON	Battery voltage	
(BR) Glound				When Intelligent Key is in the antenna detection area	(V) 15 10 5 0	
Ground	Outside key antenna	Output	door RH request switch is operat-		JMKIA0062GB	
	(passenger side) A		ed with push-but- ton ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0	
					1 s	
	Ground Ground Ground	Ground Low side start switch LED Ground Shift lock solenoid output Ground Reverse signal Ground ACC LED Ground ACC relay output	Ground Signal Output Cround Shift lock solenoid output Ground Reverse signal Output Ground ACC LED Output Ground ACC relay output Output Output	Ground Low side start switch LED Output Push-button ignition switch Ground Shift lock solenoid output Input Selector lever Ground Reverse signal Output Push-button ignition switch ON Ground ACC LED Output Push-button ignition switch ON Ground ACC relay output Output Push-button ignition switch Ground ACC relay output Output Push-button ignition switch When the front door RH request switch is operated with push-button ignition switch is operated with push-button ignition switch	Ground Door mirror RH turn signal Output Push-button ignition switch ON Ground LeD Output Push-button ignition switch ON Ground Shift lock solenoid output Input Output Push-button ignition switch ON Ground Reverse signal Output Push-button ignition switch ON Ground ACC LED Output Push-button ignition switch ON Ground ACC relay output Output Push-button ignition switch ON Ground ACC relay output Output Push-button ignition switch ON Ground ACC relay output Output Push-button ignition switch ON Ground Output Push-button ignition switch ON Ground ACC relay output Output Push-button ignition switch OFF When the illumination brightening/dimming level is in the neutral position ON Any position other than P Push-button ignition switch OFF ACC or ON When Intelligent Key is in the antenna detection in the	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
115	Cround	Outside key antenna	Output	When the front door RH request switch is operat-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(R)	Ground	(passenger side) B	Output	ed with push-but- ton ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
116	Ground	Inside key antenna	Output	Push-button ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
(W)	Clound	(console) A	Output		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
					Turn signal switch OFF	0V
117 (V)	Ground	Left front flasher	Output	Push-button ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 PKID0926E
					Turn signal switch OFF	6.5V 0V
118 (SB)	Ground	Door mirror LH turn signal	Output	Push-button ignition switch ON	Turn signal switch ON	(V) 15 10 5 0 1 s PKID0926E 6.5V

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			0 1111	Value	A
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
119	Cround	Remote keyless entry	Input/	Push-button igni-	Standby state	(V) 6 4 2 0 • • 0.2s OCC3881D	
(G)			tion switch ON	When receiving the signal from the transmitter	(V) 6 4 2 0 + 0.2s OCC3880D	F	
121	Const	Outside key antenna	0.4.1	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	F
(R)	Ground	und Outside key antenna (driver side) B Output door LH request switch is operated with push-but	ed with push-but- ton ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	K	
122	Comment	Outside key antenna	Outed	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	ВС
(P) Ground	(driver side) A	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 1 s JMKIA0063GB	F	

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			0 199	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
126 (G)	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 (W)	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.
128	Ground	Inside key antenna	Output	Push-button igni-	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(BG)	Ground	(console) B	Output	tion switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
129 (V)	Ground	Driver and passenger door unlock	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage
					OFF	Battery voltage
130	Ground	Room lamp control	Output	Interior room	ON	0V
(P)		, , , , , , , , , , , , , , , , , , ,		lamp	Other than UNLOCK (actuator is not activated)	0V
131	Ground	Driver and passenger	Output	All doors	LOCK (actuator is activated)	Battery voltage
(BR)	Oround	door lock	Output	711 00013	Other than LOCK (actuator is not activated)	0V
132 (B)	Ground	Ground 2	_	Push-button ignition switch ON		0V
133	Ground	Rear door unlock	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(Y)	Ground	Real door unlock	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
134	0	Dana dana lank	0	All de see	LOCK (actuator is activated)	Battery voltage
(L)	Ground	Rear door lock	Output	All doors	Other than LOCK (actuator is not activated)	0V
135 (LG)	Ground	BCM battery fuse	Input	Push-button ignition	on switch OFF	Battery voltage
136	0	Passenger door un-	O. 14m - 14	Front door DU	UNLOCK (actuator is activated)	Battery voltage
(SB)	Ground	lock	Output	Front door RH	Other than UNLOCK (actuator is not activated)	0V

< ECU DIAGNOSIS INFORMATION >

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_	ninal No.	Description			Value
(Wire	e color)	Signal name	Input/ Output	Condition	(Approx.)
137	Cround	Pottony ogyar autnut	Output	After passing the interior room lamp battery saver operation time	0V
(G)	Ground	Battery saver output	Output	Any other time after passing the interior room lamp battery saver operation time	Battery voltage
138 (B)	Ground	Ground 1	_	Push-button ignition switch ON	0V
139 (SB)	Ground	Front door battery	Input	Push-button ignition switch OFF	Battery voltage
140 (V)	Ground	Power window bat- tery power supply	Output	Push-button ignition switch OFF	Battery voltage
141 (LG)	Ground	Power window ignition power supply	Output	Push-button ignition switch ON	Battery voltage
142 (W)	Ground	Fusible link battery power	Input	Push-button ignition switch OFF	Battery voltage
143 (V)	Ground	Rear door battery	Input	Push-button ignition switch OFF	Battery voltage

Fail Safe

FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC
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)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
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
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions are fulfilled Power position changes to ACC Receives engine status signal (CAN)

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< ECU DIAGNOSIS INFORMATION >

[BCM]

DTC Inspection Priority Chart

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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	 B219B: SVT ID ERROR B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING B2196: DONGLE UNIT B2198: NATS ANTENNA AMP
4	 B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2606: STARTER RELAY B2606: SIARTER RELAY B2607: IGNITION RELAY B2616: BLOWER RELAY CICRC B2615: BLOWER RELAY CICRC B2616: IGN RELAY CICRC B2616: IGN RELAY CICRC B2618: BCM B2609: ENG STATE SIG LOST B2611: PUSH-BTN IGN SW B2611: PUSH-BTN IGN SW B2611: GINITION RELAY B2612: VEHICLE TYPE B2671: IGNITION RELAY B2672: IGNITION RELAY B2673: STARTER CONTROL RELAY B2676: BCM B2676: BCM B2677: BCM B2677: BCM B2679: SHIFT LOCK SOLENOID B2679: INITELLIGENT TUNER C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG

< ECU DIAGNOSIS INFORMATION >

[BCM]

Priority	DTC	
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR	- A
	 C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR 	В
	 C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR 	С
	 C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1730: FLAT TIRE FL 	D
5	 C1731: FLAT TIRE FR C1732: FLAT TIRE RR C1733: FLAT TIRE RL C1734: CONTROL UNIT 	Е
	 C1735: IGNITION SIGNAL C1761: TEMPERATURE DATA FL C1762: TEMPERATURE DATA FR C1763: TEMPERATURE DATA RR 	F
	C1764: TEMPERATURE DATA RL C1769: CONFIG SETTING C1770: G SENSOR FL C1771: G SENSOR FR	G
	C1772: G SENSOR RL C1773: G SENSOR RR	Н
6	B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA B2626: OUTSIDE ANTENNA B2627: OUTSIDE ANTENNA B2628: OUTSIDE ANTENNA	-
7	B259A: ROOM LAMP FUSE	_

DTC Index

NOTE:

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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 is switched 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-67, "DTC Description"
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-68, "DTC Description"
U0415: VEHICLE SPEED SIG	_	_	_	BCS-69, "DTC Description"
B219B: SVT ID ERROR	_	_	_	BCS-70, "DTC Description"
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-65, "DTC Description"
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-67, "DTC Description"
B2195: ANTI SCANNING	×	_	_	SEC-69, "DTC Description"
B2196: DONGLE UNIT	_	_	_	SEC-71, "DTC Description"

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2198: NATS ANTENNA AMP.	_	_	_	SEC-73, "DTC Description"
B2555: STOP LAMP	_	_	_	SEC-75, "DTC Description"
32556: PUSH-BTN IGN SW	_	×	_	SEC-79, "DTC Description"
B2557: VEHICLE SPEED	_	×	_	SEC-82, "DTC Description"
B2560: STARTER CONT RELAY	X	×	_	SEC-84, "DTC Description"
B2562: LOW VOLTAGE	X	_	_	BCS-72, "DTC Description'
B259A: ROOM LAMP FUSE	_	_	_	BCS-73, "DTC Description'
B2601: SHIFT POSITION	_	×	_	SEC-86, "DTC Description"
B2602: SHIFT POSITION	_	×	_	SEC-89, "DTC Description"
B2603: SHIFT POSI STATUS	_	×	_	SEC-92, "DTC Description'
B2604: PNP SW	_	×	_	SEC-96, "DTC Description"
B2605: PNP SW	_	×	_	SEC-99, "DTC Description"
B2608: STARTER RELAY	×	×	_	SEC-102, "DTC Description
B260A: IGNITION RELAY	×	×	_	PCS-62, "DTC Description"
B2614: ACC RELAY CIRC		×	_	PCS-64, "DTC Description"
B2615: BLOWER RELAY CIRC	_	×	_	PCS-67, "DTC Description"
32616: IGN RELAY CIRC		×	_	PCS-70, "DTC Description"
B2618: BCM	×	×	_	PCS-73, "DTC Description"
3260F: ENG STATE SIG LOST	×	×	_	SEC-110, "DTC Description
B261A: PUSH-BTN IGN SW	_	×	_	PCS-74, "DTC Description"
3261B: RES ENG RUN		_	_	DLK-74, "DTC Description"
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-104, "DTC Description
B2622: INSIDE ANTENNA	_	_	_	DLK-75, "DTC Description'
B2623: INSIDE ANTENNA	_	_	_	DLK-78, "DTC Description'
B2626: OUTSIDE ANTENNA	_	_	_	DLK-89, "DTC Description"
B2627: OUTSIDE ANTENNA		_	_	DLK-92, "DTC Description"
32628: OUTSIDE ANTENNA	_	_	_	DLK-95, "DTC Description"
B26F1: IGNITION RELAY		_	_	PCS-77, "DTC Description"
B26F2: IGNITION RELAY		_	_	PCS-79, "DTC Description"
B26F3: STARTER CONTROL RELAY	_	_	_	SEC-106, "DTC Description
326F4: STARTER CONTROL RELAY	_	_	_	SEC-107, "DTC Description
B26F6: BCM	_	_	_	PCS-81, "DTC Description"
B26F7: BCM	_	_	_	SEC-109, "DTC Description
B26FC: KEY REGISTRATION	_	_	_	SEC-108, "DTC Description
B26FD: SHIFT LOCK SOLENOID	_	_	_	DLK-81, "DTC Description"
326FE: HOOD SWITCH	_	_	_	DLK-83, "DTC Description"
B26FF: REMOTE KEYLESS ENTRY RE- CEIVER	_	_	_	DLK-85, "DTC Description"
C1704: LOW PRESSURE FL	_	_	×	
C1705: LOW PRESSURE FR	_	_	×	
C1706: LOW PRESSURE RR		_	×	WT-29, "DTC Description"
C1707: LOW PRESSURE RL		_	×	

< ECU DIAGNOSIS INFORMATION >

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- - - - - -	- - - - -	× × × × × ×	WT-31, "DTC Description"	В
- - - - -	_ _ _ _ _	×	WT-31, "DTC Description"	
- - - -	_ _ _ _	×	W1-31, "DTC Description"	0
_ _ _ _	_ _ _			0
_ _ _		×		
_ _	_			
_		×	WT 25 "DTC Description"	
	_	×	WT-35, "DTC Description"	D
_	_	×		
_	_	×	WT-37, "DTC Description"	_
_	_	×		Е
_	_	×	WT 00 IIDTO Decembricanii	
_	_	×	<u>vv1-39, "DTC Description"</u>	F
_	_	×		
_	_	×	WT-41, "DTC Description"	
_	_	_	WT-43, "DTC Logic"	G
_	_	_		
_	_	_	VA/T AF UDTO Description	Н
_	_	_	vv 1-45, "DTC Description"	
_	_	_		
_	_	_	WT-47, "DTC Description"	- 1
_	_	_		
_	_	_	VA/T 40 IIDTO Deserviciti. II	J
_	_	_	vv i-49, "DTC Description"	J
_	_	_		
			-	— — × WT-37, "DTC Description" — — × — — × — — × — — × — — XT-41, "DTC Description" — — WT-43, "DTC Logic" — — WT-45, "DTC Description" — — WT-47, "DTC Description"

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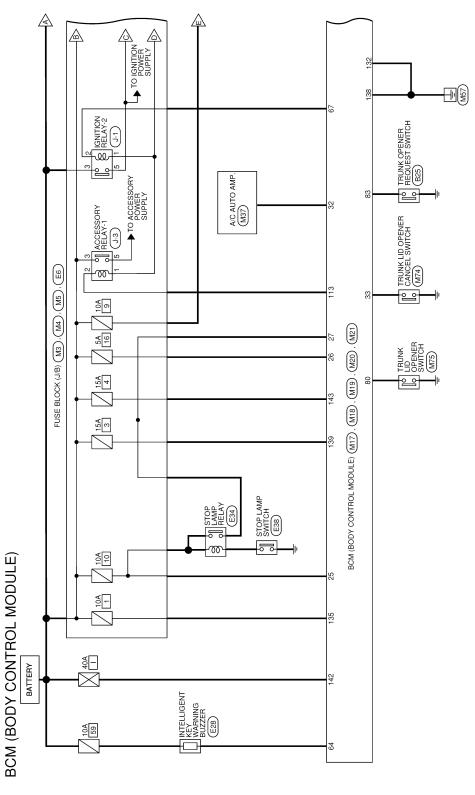
Р

< WIRING DIAGRAM > [BCM]

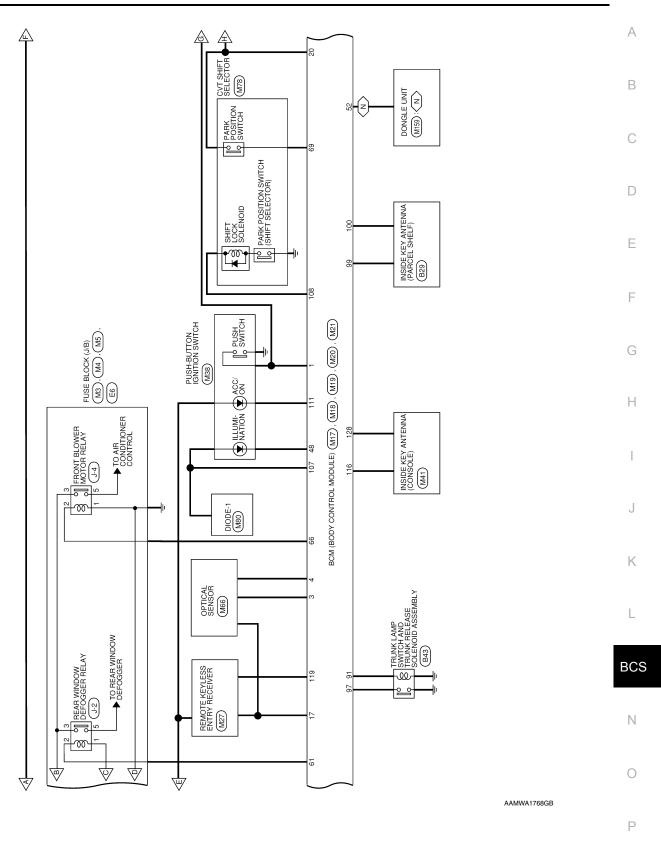
WIRING DIAGRAM

BCM (BODY CONTROL MODULE)

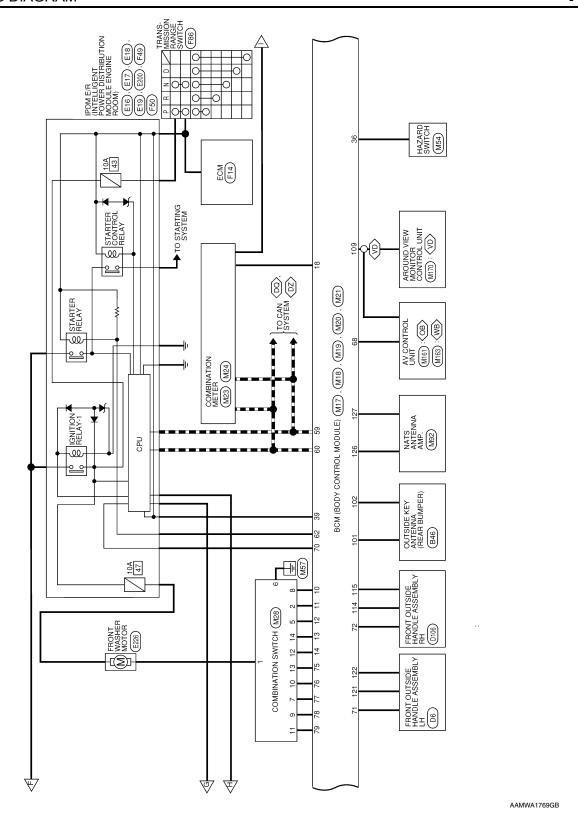
Wiring Diagram

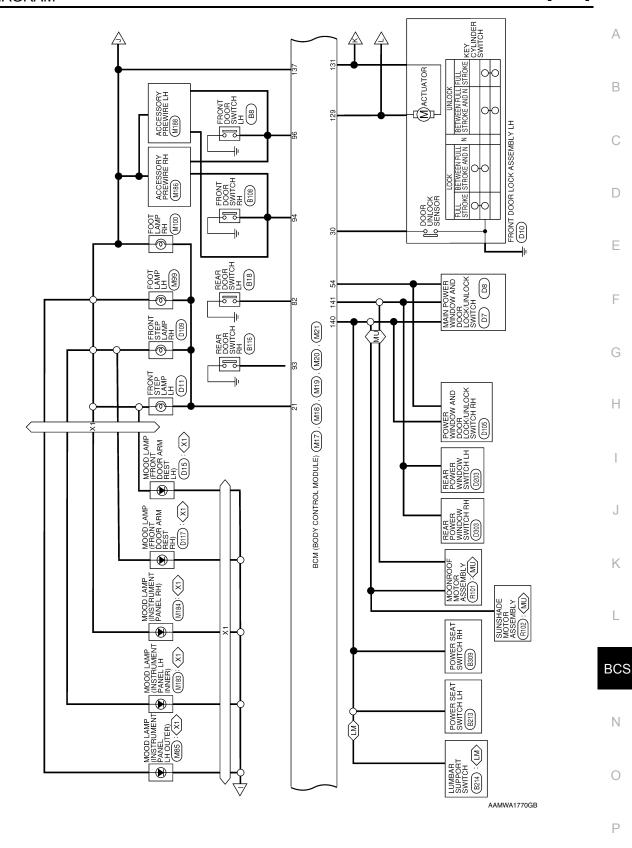


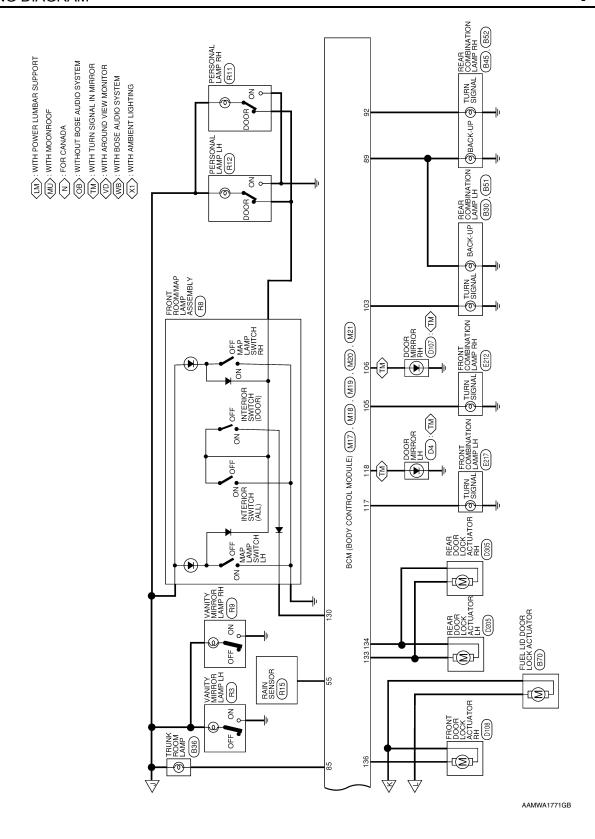
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INECTORS
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NTROL MODULE)
8
(BOD)
BCM

			112	-			A	TRUNK ANT A	
Connector No.		M17	113	#	ACC RELAY OUT	103	>	RL FLASHER	Γ
Connector Name		BCM (BODY CONTROL MODULE)	114	۵	AS DOOR ANT A			1	Τ
Connector Type		FEA09FW-FHA6-SA	115		AS DOOR ANT B				1
Connector Color		WHITE	116	>	ROOM ANT 2 A				
			117	>	FL SL FLASHER				
			118	SB	FL SL FLASHER 2				
Y	L		119	g	RF NIMOCO				
Ö.E	Ī	129 130 131 132 133 134 135 136 137	120	-	1				
			121	œ	DR DOOR ANT B				
		138 139 140 141 142 143	122	Δ.	DR DOOR ANT A				
			123	1	1				
			124		1				
			125	-	1				
Ierminal	Color of	Signal Name	126	5	IMMO ANT B				
5 5	>	DOOD INI OCK DB/48/EI	127	>	IMMO ANT A				
3 5		BOOM I AMB CONT	128	BG	ROOM ANT 2 B				
95	. 8	POOM LAWIT CON							
2 3	5 0	DOOR LOCK DRASFIL		ľ					
261	: ا ۵	GNDZ	Connector	1	811				
133	-	DOOR UNLOCK AS/RR/RL	Connector Name		BCM (BODY CONTROL MODULE)				
134	_	DOOR LOCK AS/RR/RL	Connector Type		TH24FGY-NH				
135	PC	BAT BCM FUSE	Connector Color		GBAV				
136	SB	DOOR UNLOCK AS							
137	g	BATTERY SAVER OUT	E						
138	В	GND1							
139	SB	BAT FRONT DOOR	E S						
140	^	P/W POWER SUPPLY BAT			92 91 90 89 88 87 86 85 84 83 82 81				
141	ΓG	P/W POWER SUPPLY IGN			96 95				
142	W	BAT-POWER F/L							
143	^	BAT REAR DOOR							
Connector No.		M18	Terminal	Color of	Signal Name				
Connector Name		BCM (BODY CONTROL MODULE)	2	1					
Connector Type		TH24FB-NH	5 &	>	BI DOOB SW				
Connector Color		BLACK	88	88	TRUNK BEOUEST SW				
- Gu			28	1	1				
F			88	BG	TRUNK LAMP CONT				
Į			98	'	1				
H.S.			87	-	1				
		116 115 114 113 112 111 110 109 108 107 106 105	88		1				
		128 127 126 125 124 123 122 121 120 119 118 117	88	BB	REVERSE LAMP OUT				
			06	1	1				
			16	>	TRUNK OPEN OUT				
Terminal	Color of		95	97	RR FLASHER				
No.	Wire	Signal Name	88	>	RR DOOR SW				
105	>	FB SB FI ASHEB	94	8	AS DOOR SW				
106		FB SB FI ASHER 2	96	-	1				
107	3 >	I OW SIDE START SWIFD	96	۵	DR DOOR SW				
108	: B	SHIFT LOCK SOLENOID OUT	26	7	TRUNK SW				
109	5	REVERSE SIGNAL	86	-	-				
110			66	g	ROOM ANT 3 B				
=======================================	>	ACCLED	100	œ	ROOM ANT 3 A				
	-								

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Connector No.		M20	80	BR	TRUNK OPEN SW	38	١.	-	
Connector Name		BCM (BODY CONTROL MODULE)	30000		PON.	40	٠ ا	NIN ININ	
Connector Type		TH40FB-NH	Connector No.	\top	M21				,
Connector Color		BLACK	Connector Name		BCM (BODY CONTROL MODULE)	ON rotograd		MOD	
E			Connector Type		TH40FG-NH	Connector Name	\top	COMBINATION SWITCH (LIGHTING AND	_
								TURN SIGNAL SWITCH)	
H.S.		7	E			Connector Type		TH16FW-NH	-
	60 59 58 80 79 78	60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 81 82 41 82 81 81 82 81	H.S.			Connector Color		WHILE	_
				20 19 18 40 39 38	19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 39 38 37 36 36 34 33 32 31 30 29 28 27 26 25 24 23 22 21				
Terminal No.	Color of Wire	ار Signal Name						2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
41		1	Terminal	Color of	Signal Name			0 3 11 01 6 0	
45	1	-	ġ,	Wire	ENG CTADT CW NO ECO				
84 43			- 2	c 1	ENG STATI SW NO ESSE	Terminal	Color of	S. C.	
45		1	3	BR	A/L POWER SUPPLY 5V	No.	Wire	olgna name	
46	1	-	4	*	A/L SIGNAL	-	2	ı	
47	'	1	£	-	1	2 .	g d	1	
48	SB	HIGH SIDE START SW LED	9 1		1	n w	x a		
8		1	- α		1 1	2	0	1	_
8 15	·		6	1	1	80	*	1	
52	5	AUDIO DONGLE(FOR CANADA)	10	W	COMBI SW IN 5	6	۵	1	,
23		1	11	BG	COMBI SW IN 4	10	*	1	
54	۵	PW LIN	12	œ	COMBI SW IN 3	1	g	1	
55	æ	L&R SENSOR K-LINE	13	g	COMBI SW IN 2	12	۵	1	
56	-	1	14	۵.	COMBI SW IN 1	13	BB	-	
22	1	1	15		1	14	σ	1	_
28		1	2 !		1 0000				
29	۵.	CAN-L	7 0	a 0	GND HF AVL				
9 5	<u>-</u> ک	REAR DEFOGGER RELAY OLIT	61	3 1					
6 6	- >	STARTER RELAY OUT	20	*	SHIFT P				
63	ŀ		21	W	STEP LAMP CONT				
64	۵	BUZZER OUT	22	-	1				
99	-	1	23	-	1				
99	æ	BLOWER FAN RELAY OUT	24	1	1				
29	*	IGN ELEC RELAY OUT 2	25	BG	BRAKE SW FUSE				
89	۵	MROUTPUT	56	>	SHORTING INPUT				
69	_	AT DEVICE OUT	27	5	BRAKE SW LAMP				
20	5	IGN USM OUT 1	87		1				
17	>	DR REQUEST SW	82 8	1 4					
72	>	AS REQUEST SW	90 5		DH DOOH LOCK STALOS				
2 2	<u>.</u>	1	3 8	٠ =	BEAB DEFORCER SW				
4	. 6	THOMOGRAPO	3 8	3 >	TRINK CANCEL SW				
و ا	58 3	COMBI SW OUT S	3 2	: 1					
9/ 1	× 0	COMBI SW OUT 4	4 4						
77	x a	COMBI SW OUT 3	8 8	>	HAZABD SW				
6/	5	COMBISW OUT 1	37		-				

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INSPECTION AND ADJUSTMENT [BCM] < BASIC INSPECTION > **BASIC INSPECTION** Α INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description BEFORE REPLACEMENT When replacing BCM, save or print current vehicle specification with CONSULT configuration before replacement. Refer to BCS-63, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Work Proce-D dure". NOTE: If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replac-Е ing 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 Proce-Н dure INFOID:0000000012250201 1. SAVING VEHICLE SPECIFICATION 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. K >> GO TO 2. 2.REPLACE BCM Replace BCM. Refer to BCS-82, "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-64, "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-64, "CONFIGURATION (BCM): Work Procedure".

>> GO TO 4.

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4. REGISTER INTELLIGENT KEYS

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

BCS-63

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [BCM]

>> GO TO 5.

5. INITIALIZE TPMS

Perform TPMS initialization. Refer to WT-25, "Work Procedure".

>> Work End.

CONFIGURATION (BCM)

CONFIGURATION (BCM): Description

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-SILLT
- 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:0000000012250203

INFOID:0000000012250202

1. WRITING MODE SELECTION

(P)CONSULT

Select "Reprogramming, Configuration" of BCM.

When writing saved data>> GO TO 2.

When writing manually>> GO TO 3.

2.PERFORM "SAVED DATA LIST"

(P)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

- 1. Select "After Replace ECU" or "Manual Configuration".
- 2. Identify the correct model and configuration list.
- 3. Confirm and/or change setting value for each item.

CAUTION:

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

4. Select "Next".

CAUTION:

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

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

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [BCM]

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> Work End.

CONFIGURATION (BCM): Configuration List

INFOID:0000000012837091

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CAUTION:

- Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.
- The "setting value" of this vehicle is as follows: Never select any other value than the setting value shown below. (If there is only 1 item in "setting value" that means that item is the only choice for this certain vehicle.)

BCM

SETTING ITEM		NOTE	
Items	Setting value	NOTE	
RAIN SENSOR CONFIG	WITH ⇔ WITHOUT	WITH: With rain detecting wipers WITHOUT: Without rain detecting wipers	
CAN ERR DETECT TELEMATICS	WITH ⇔ WITHOUT	WITH: With telematics WITHOUT: Without telematics	
DONGLE	WITH ⇔ WITHOUT	WITH: With dongle (Canada) WITHOUT: Without dongle (USA)	

INTELLIGENT KEY

SETTING ITEM		NOTE	
Items	Setting value	NOTE	
Key Fob Type	LCK/UNLCK/TRNK ⇔ ENST/LCK/UN- LCK/TRK/ALR	LCK/UNLCK/TRK: Without remote engine start ENST/LCK/UNLCK/TRK/ALRM: With remote engine start	
ANSWER BACK I-KEY LOCK UNLOCK	BUZZER ⇔ OFF	BUZZER: With answer back lock/unlock feature OFF: Without answer back lock/unlock feature	

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SHIPPING MODE CANCEL OPERATION

< BASIC INSPECTION > [BCM]

SHIPPING MODE CANCEL OPERATION

Work Procedure

1. SHIPPING MODE CANCEL OPERATION

- 1. Turn ignition switch OFF.
- 2. Press in (turn on) the extended storage switch. Refer to PG-96, "How To Check".
- 3. Turn ignition switch ON.
- 4. Turn ignition switch OFF and wait at least 2 seconds.

NOTE:

Pressing in the extended storage switch moves the mode from Shipping to Normal.

>> GO TO 2.

2. SHIPPING MODE CANCEL CHECK

- 1. Turn ignition switch ON.
- 2. Check that extended storage warning message is not displayed in combination meter or display.

>> Work End.

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

DTC Description

INFOID:0000000012250279

Description

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN high line, CAN low line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-32, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart".

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
		Diagnosis condition	When ignition switch is ON.
111000	CAN COMM CIRCUIT	Signal (terminal)	_
	(CAN communication circuit)	Threshold	_
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

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Diagnosis Procedure

INFOID:0000000012250280

1. SELF DIAGNOSTIC RESULT

(P)CONSULT

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

Is DTC "U1000" displayed?

- YES >> Refer to LAN-17, "Trouble Diagnosis Flow Chart".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-41, "Intermittent Incident".
- NO–2 >> Confirmation after repair: Inspection End.

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U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

U1010 CONTROL UNIT (CAN)

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
'	U1010 CONTROL UNIT (Control unit)	Diagnosis condition	When ignition switch is ON.
111010		Signal (terminal)	_
01010		Threshold	_
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

BCM

FAIL-SAFE

Diagnosis Procedure

INFOID:0000000012250282

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to BCS-82, "Removal and Installation".

U0415 VEHICLE SPEED SIG

< DTC/CIRCUIT DIAGNOSIS >

U0415 VEHICLE SPEED SIG

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
		Diagnosis condition	When ignition switch is ON.
U1000	VEHICLE SPEED	Signal (terminal)	_
(Vehicle s	(Vehicle speed)	Threshold	_
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

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

FAIL-SAFE

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DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION PROCEDURE

(P)CONSULT

- Erase the DTC.
- Turn ignition switch OFF.
- Perform "Self Diagnostic Result" mode of "BCM", after the ignition switch has been turned ON for 2 seconds or more.

Is any DTC detected?

- YES >> Refer to BCS-69, "Diagnosis Procedure".
- NO-1 >> To check malfunction symptom before repair: Refer to GI-41, "Intermittent Incident".
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000012250284

[BCM]

INFOID:0000000012250283

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1.SELF DIAGNOSTIC RESULT

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "ABS".
- 3. Check DTC.

Is any DTC detected?

- YES >> Repair or replace the malfunctioning part.
- NO >> Replace BCM. Refer to BCS-82, "Removal and Installation".

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[BCM]

B219B SVT ID ERROR

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition		
		Diagnosis condition	When the ignition switch is ON.	
B219B SVT ID ERROR (Identification discord bod control module - telematic communication unit)		Signal (terminal)	_	
	control module - telematics	Threshold	The ID verification results between BCM and TCU are not matching	
		Diagnosis delay time	_	

POSSIBLE CAUSE

- · TCU is not registered/paired correctly with the BCM
- · Harness or connector
- BCM
- TCU

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

- 1. Turn ignition switch ON.
- 2. Check DTC in "Self Diagnostic Result" mode of "BCM".

Is DTC B219B detected?

YES >> Refer to <u>BCS-70</u>, "<u>Diagnosis Procedure</u>".

NO-1 >> To check malfunction symptom before repair: Refer to GI-41, "Intermittent Incident".

NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000013015151

1. TCU ACTIVATION OPERATION

CONSULT

Register the TCU. Refer to AV-91, "Work Procedure".

Does telematics system operate?

YES >> Inspection End.

NO >> GO TO 2.

2.CHECK SELF-DIAGNOSIS RESULT

(P)CONSULT

- Select "Self Diagnostic Result" mode of "BCM".
- Erase DTC.
- Perform DTC CONFIRMATION PROCEDURE for DTC B219B. Refer to BCS-70, "DTC Description".

Is DTC B219B detected?

YES >> GO TO 3.

NO >> Inspection End.

3.REPLACE TCU

- 1. Replace TCU. Refer to AV-201, "Removal and Installation".
- Perform DTC CONFIRMATION PROCEDURE for DTC B219B. Refer to BCS-70, "DTC Description".

Is DTC B219B detected?

YES >> GO TO 4.

B219B SVT ID ERROR	racio.
< DTC/CIRCUIT DIAGNOSIS >	[BCM]
NO >> Inspection End. 4.REPLACE BCM	
Replace BCM. Refer to BCS-82, "Removal and Installation".	
Replace BCIVI. Refer to BC3-62, Removal and Installation.	
>> Inspection End.	

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[BCM]

B2562 LOW VOLTAGE

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
		Diagnosis condition	When ignition switch is ON.
B2562	LOW VOLTAGE	Signal (terminal)	BCM power circuit (terminal 135 and 142)
(Low volt	(Low voltage)	Threshold	Less than 8.8V
	•	Diagnosis delay time	120 seconds or more

POSSIBLE CAUSE

- · Harness or connector (power supply circuit)
- BCM

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1.DTC CONFIRMATION PROCEDURE

(P)CONSULT

- Erase DTC.
- Turn ignition switch OFF.
- Perform the "Self Diagnostic Result" mode of "BCM", after the ignition switch is turned ON for 120 seconds or more.

Is any DTC detected?

YES >> Refer to BCS-72, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-41, "Intermittent Incident".

NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000012250286

1. CHECK POWER SUPPLY CIRCUIT

Check BCM power supply circuit. Refer to BCS-75, "Diagnosis Procedure".

Is the circuit normal?

YES >> Replace BCM. Refer to BCS-82, "Removal and Installation".

NO >> Repair the malfunctioning part.

B259A ROOM LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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B259A ROOM LAMP FUSE

DTC Description

INFOID:0000000012250287

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition		
		Diagnosis condition	When ignition switch is ON.	
B259A	ROOM LAMP FUSE BLOWN	Signal (terminal)	BCM power circuit (terminal 135)	
DZJJA	(Room lamp fuse blown)	Threshold	Approx. 0V	
		Diagnosis delay time	120 seconds or more	

POSSIBLE CAUSE

- Fuse
- Harness or connector (power supply circuit is open or shorted)
- Harness or connector (interior room lamp power supply circuit is shorted)
- BCM

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

$1.\mathsf{DTC}$ CONFIRMATION PROCEDURE

CONSULT

- Erase DTC.
- Turn ignition switch OFF.
- 3. Perform the "Self Diagnostic Result" mode of "BCM", after the ignition switch has been turned ON for 120 seconds or more.

Is any DTC detected?

>> Refer to BCS-73, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-41, "Intermittent Incident".

NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000012250288

Regarding Wiring Diagram information, refer to BCS-56, "Wiring Diagram".

1. CHECK FUSE

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
135	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 M17.
- Check voltage between BCM connector M17 terminal 135 and ground.

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B259A ROOM LAMP FUSE

[BCM]

< DTC/CIRCUIT DIAGNOSIS >

всм		Crawad	Voltage (Approx.)
Connector Terminal		Ground	
M17	135	_	Battery voltage

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-82, "Removal and Installation".

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

${f 3}.$ CHECK BATTERY SAVER OUTPUT CIRCUIT FOR SHORT TO GROUND

1. Turn ignition OFF.

2. Check continuity between BCM connector M17 terminal 137 and ground.

BCM		Ground	Continuity
Connector	Terminal	Giodila	Continuity
M17	137	_	No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-82, "Removal and Installation".

NO >> Repair or replace harness or connectors.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000011934046

Regarding Wiring Diagram information, refer to BCS-56, "Wiring Diagram".

1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuses or fusible link are blown.

Signal name	Fuse and fusible link No.		
Fusible link battery power	I (40A)		
BCM battery fuse	1 (10A)		

Is the fuse or fusible link blown?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect BCM connector M17.
- Check voltage between BCM harness connector M17 and ground.

	Terminals					
	(+)	(-)	Voltage (Approx.)			
!	BCM		(Approx.)			
Connector	Terminal	Ground				
M17	135	Giouna	Dettem veltere			
IVI I /	142		Battery voltage			

Is the measurement normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector M17 and ground.

В	CM		Continuity		
Connector	Terminal	Ground	Continuity		
M17	138	Giouna	Yes		
14117	132		165		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness.

Special Repair Requirement

$1.\,$ REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to BCS-63, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) : Work Procedure".

>> Work End.

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INFOID:0000000011934047

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000011934048

Regarding Wiring Diagram information, refer to BCS-56. "Wiring Diagram".

1. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- 1. Turn the ignition switch OFF.
- 2. Disconnect BCM connector M20 and combination switch connector M28.
- 3. Check continuity between BCM harness connector M20 and combination switch harness connector M28.

Combination switch	В	СМ	Combina	Continuity	
signal	signal Connector Terminal		Connector	Terminal	Continuity
INPUT 1		79		11	
INPUT 2		78	-	9	
INPUT 3	M20	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.

2. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check for continuity between BCM harness connector M20 and ground.

Combination switch	ombination switch B			Continuity
signal	Connector	Connector Terminal		Continuity
INPUT 1		79		
INPUT 2		78	Ground	
INPUT 3	M20	77		No
INPUT 4		76		
INPUT 5		75		

Is the inspection result normal?

YES >> Repair or replace harness.

NO >> GO TO 3.

3. CHECK BCM OUTPUT SIGNAL

- 1. Connect BCM connector M20 and combination switch connector M28.
- 2. Turn ON any switch in the system that is malfunctioning.
- 3. Check voltage between BCM harness connector M20 and ground.

Combination switch	(-	+)	(-)	Voltage (Approx.)
signal	BC	CM	Ground	(Approx.)
	Connector	Terminal		

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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INPUT 1		79			
INPUT 2		78		D () D00 04 HD (
INPUT 3	M20	77	_	Refer to BCS-31, "Refer- ence Value".	
INPUT 4		76			
INPUT 5		75			

Is the measurement normal when any of the switches is turned ON?

YES >> Replace combination switch. Refer to <u>BCS-83</u>, "Removal and Installation".

NO >> Replace BCM. Refer to BCS-82, "Removal and Installation".

Special Repair Requirement

INFOID:0000000011934049

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to <u>BCS-63</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) : Description".

>> Work end.

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COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000011934050

Regarding Wiring Diagram information, refer to BCS-56, "Wiring Diagram".

1. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- 1. Turn the ignition switch OFF.
- 2. Disconnect BCM connector M21 and combination switch connector M28.
- 3. Check continuity between BCM harness connector M21 and combination switch harness connector M28.

Combination switch	ВС	M	Combinat	Continuity	
signal	Connector	Terminal	Connector	Terminal	Continuity
OUTPUT 1		14		12	
OUTPUT 2		13		14	
OUTPUT 3	M21	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.

2. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check for continuity between BCM harness connector M21 and ground.

Combination switch	E	BCM		Continuity	
signal	Connector	Terminal	-	Continuity	
OUTPUT 1		14	-		
OUTPUT 2		13	Ground		
OUTPUT 3	M21	12	-	No	
OUTPUT 4		11			
OUTPUT 5		10			

Is the inspection result normal?

YES >> Repair or replace harness.

NO >> GO TO 3.

3. CHECK BCM INPUT VOLTAGE

- 1. Connect BCM connector M21 and combination switch connector M28.
- 2. Turn ignition switch ON.
- 3. Check voltage between BCM harness connector M21 and ground.

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

		Terminals				
Combination switch	(+)		(-)	Voltage		
signal	BCM			(Approx.)		
	Connector	Terminal				
OUTPUT 1		14				
OUTPUT 2		13	Ground			
OUTPUT 3	M21	12		Refer to <u>BCS-31, "Refer</u> ence Value".		
OUTPUT 4		11		choe value.		
OUTPUT 5		10				

Is the measurement normal?

YES >> Replace BCM. Refer to BCS-82, "Removal and Installation".

NO >> Replace the combination switch. Refer to <u>BCS-83, "Removal and Installation"</u>.

Special Repair Requirement

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to <u>BCS-63</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) : Description"</u>.

>> Work end.

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COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SNOSIS > [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: x

		Data monitor item												
Malfunction combi- nation	FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	INT VOLUME	TURN SIGNAL R	TURN SIGNAL L	TAIL LAMP SW	HI BEAM SW	HEAD LAMP SW 1	HEAD LAMP SW 2	PASSING SW	AUTO LIGHT SW	FR FOG SW
A		×	×			×	×							
В	×			×						×		×		
С					×				×		×			
D					×			×					×	
E					×									×
F	×				×									
G			×		×									
Н		×		×									×	
ı							×				×	×		×
J						×		×	×	×				
K		All Items												
L			If only o	ne item	is detec	ted or th	e item is	not app	licable t	o the co	mbinatio	ns A to	J	

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-76, "Diagnosis Procedure".			
D	Combination switch INPUT 4 circuit	part. Note: to boo vo. biagnosis i roccutic.			
Е	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 <u>BCS-78</u> , " <u>Diagnosis Procedure</u> ".			
I	Combination switch OUTPUT 4 circuit	mig part. Note: to <u>bee 79, blughester recodure</u> .			
J	Combination switch OUTPUT 5 circuit				
K	BCM	Replace BCM. Refer to BCS-82, "Removal and Installation".			
L	Combination switch	Replace the combination switch. Refer to BCS-83, "Removal and Installation".			

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS > [BCM]

NORMAL OPERATING CONDITION

Description A

SHIPPING MODE

- Shipping mode inhibits battery power consumption during transportation or storage of the vehicle. Vehicle is set to shipping mode before being shipped from the factory.
- When ignition switch is OFF, BCM operates shipping mode.
- BCM control function is limited in shipping mode. Remote keyless entry function does not operate in shipping mode.
- For shipping mode cancel operation, refer to <u>BCS-66</u>, "Work <u>Procedure"</u>.

NOTE:

Do not cancel shipping mode during storage of the vehicle. Shipping mode should not be canceled until just prior to customer delivery.

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[BCM]

REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

Removal and Installation

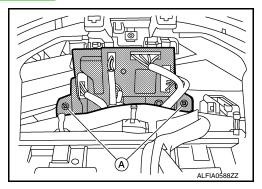
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REMOVAL

NOTE:

Before replacing BCM, perform "Before Replace ECU" of "Read/Write Configuration" to save or print current vehicle specification. Refer to BCS-63, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) : Description".

- 1. Disconnect negative battery terminal. Refer to PG-101, "Exploded View".
- 2. Remove combination meter. Refer to MWI-68, "Removal and Installation".
- 3. Remove screws (A) using a suitable tool.



4. Disconnect harness connectors from the BCM and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Be sure to perform "After Replace ECU" of "Read/Write Configuration" or "Manual Configuration" when replacing BCM. Refer to BCS-63, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description".

NOTE:

Be sure to perform system initialization (TPMS) when replacing BCM.

[BCM]

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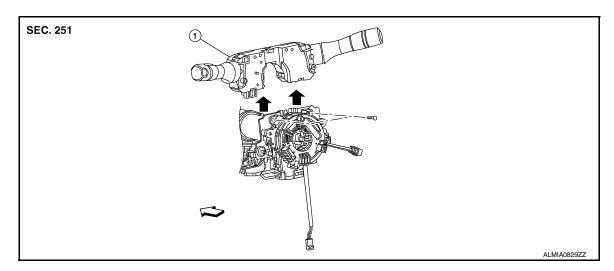
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COMBINATION SWITCH

Exploded View



. Combination switch <

NOTE:

Shown with the steering wheel removed for clarity only.

Removal and Installation

REMOVAL

CAUTION:

- Before servicing, turn the ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- · Do not use air tools or electric tools for servicing.
- Disconnect both the negative and positive battery terminals, then wait at least three minutes. Refer to <u>PG-101</u>, "Exploded View".
- Remove steering column covers. Refer to <u>IP-18</u>, "Removal and Installation <u>Electric steering column without paddle shifter</u>" (Electronic steering column without paddle shifter) <u>IP-18</u>, "Removal and Installation <u>Mechanical steering column with paddle shifter</u>" (Mechanical steering column with paddle shifter) <u>IP-19</u>, "Removal and Installation <u>Mechanical steering column without paddle shifter</u>" (Mechanical steering column without paddle shifter).
- Rotate steering wheel clockwise to access first combination switch bolt and remove.
- 4. Rotate steering wheel counterclockwise to access second combination switch bolt and remove.
- 5. Disconnect harness connector from combination switch and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After the work is completed, make sure no system malfunction is detected by air bag warning lamp.
- In case a malfunction is detected by the air bag warning lamp, reset with the self-diagnosis function and delete the memory with CONSULT.
- If a malfunction is still detected after the above operation, perform self-diagnosis to repair malfunctions. Refer to <u>SRC-16</u>, <u>"SRS Final Check"</u>.

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