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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 "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precautions for Removing of Battery Terminal

 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

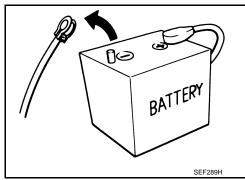
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

 For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
 NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
 NOTE:

The removal of 12V battery may cause a DTC detection error.



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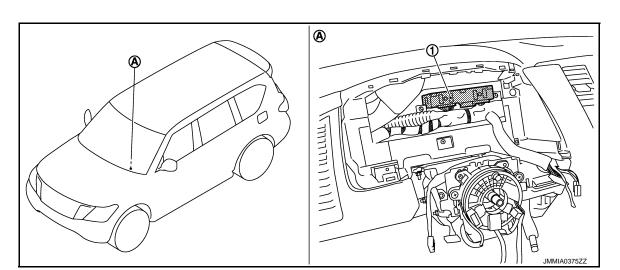
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SYSTEM DESCRIPTION

COMPONENT PARTS BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: Component Parts Location



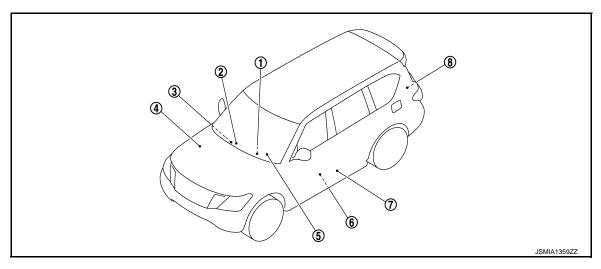
- 1. BCM
- A. Behind of combination meter

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM: Component Parts Location

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- BCM
 Refer to <u>BCS-4</u>. "<u>BODY CONTROL</u>
 <u>SYSTEM</u>: Component Parts Location".
- 2. TCU
 Refer to AV-315, "Component Parts
 Location".
- 3. CAN gateway
 Refer to LAN-116, "Component
 Parts Location".

COMPONENT PARTS

< SYSTEM DESCRIPTION >

4.	IPDM E/R
	Refer to PCS-4, "Component Parts
	Location".

- 7. Pre-crash seat belt control unit Refer to <u>SBC-5</u>, "Component Parts <u>Location"</u>.
- 5. Combination meter
- 6. Driver seat control unit
 Refer to ADP-7, "Component Parts
 Location".

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 Automatic back door control module Refer to <u>DLK-14</u>, "<u>AUTOMATIC</u> <u>BACK DOOR SYSTEM</u>: <u>Component Parts Location</u>".

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SYSTEM BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: System Description

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OUTLINE

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

BCM CONTROL FUNCTION LIST

System		Reference	
Combination switch reading system		BCS-8, "COMBINATION SWITCH READING SYSTEM: System Diagram"	
Signal buffer system		BCS-12, "SIGNAL BUFFER SYSTEM : System Diagram"	
Power consumption control system		BCS-13, "POWER CONSUMPTION CONTROL SYSTEM: System Diagram"	
Auto light system		EXL-11, "AUTO LIGHT SYSTEM : System Diagram"	
Turn signal and hazard warning lamp syste	em	EXL-17, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Diagram"	
Headlamp system		EXL-10, "HEADLAMP SYSTEM : System Diagram"	
Daytime running light system		EXL-13, "DAYTIME RUNNING LIGHT SYSTEM : System Diagram"	
Parking, license plate, side maker and tail	lamps system	EXL-18, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Diagram"	
Front fog lamp system		EXL-19, "FRONT FOG LAMP SYSTEM : System Diagram"	
Exterior lamp battery saver system		EXL-20, "EXTERIOR LAMP BATTERY SAVER SYSTEM : System Diagram"	
Interior room lamp control system		INL-6. "INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram"	
Interior room lamp battery saver system		INL-9, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM: System Diagram"	
Illumination control system		INL-10, "ILLUMINATION CONTROL SYSTEM : System Diagram"	
Auto light adjustment system		INL-11, "AUTO LIGHT ADJUSTMENT SYSTEM : System Diagram"	
Front wiper and washer system		WW-7, "FRONT WIPER AND WASHER SYSTEM : System Diagram"	
Rear wiper and washer system		WW-10, "REAR WIPER AND WASHER SYSTEM : System Diagram"	
Headlamp washer system		WW-12, "HEADLAMP WASHER SYSTEM : System Diagram"	
Warning chime system		WCS-6, "WARNING CHIME SYSTEM : System Diagram"	
Power door lock system		DLK-16, "System Diagram"	
Infiniti Vehicle immobilizer System (IVIS)		SEC-13, "INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS: System Diagram"	
Volciala a a curity a vatara	Theft warning alarm	CEC 45 WELLIOLE CECLIDITY CVCTEM - Cross-s- Bi	
Vehicle security system	Panic alarm	SEC-15, "VEHICLE SECURITY SYSTEM : System Diagram"	

SYSTEM

< SYSTEM DESCRIPTION >

System	Reference
Rear window defogger system	DEF-6, "System Diagram"
Intelligent Key system/engine start system	DLK-18, "INTELLIGENT KEY SYSTEM : System Diagram"
Power window system	PWC-9, "System Diagram"
Retained accessory power (RAP) system	PWC-9, "System Description"

BODY CONTROL SYSTEM: Fail-safe

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FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch $ON \rightarrow OFF$
B2198: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2608: STARTER RELAY	Inhibit engine cranking	 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B260F: ENG STATE SIG LOST	Inhibit engine cranking	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B261B: RES ENG RUN STUCK MALFUNC	Fuel cut	When engine status signal (CAN) is received normally
B26F1: IGN RELAY OFF	Inhibit engine cranking	When the following conditions are fulfilled Ignition switch ON signal (CAN: Transmitted from BCM): ON Ignition switch ON signal (CAN: Transmitted from IPDM E/R): ON
B26F2: IGN RELAY ON	Inhibit engine cranking	When the following conditions are fulfilled Ignition switch ON signal (CAN: Transmitted from BCM): OFF Ignition switch ON signal (CAN: Transmitted from IPDM E/R): OFF
B26F3: START CONT RLY ON	Inhibit engine cranking	When the following conditions are fulfilled • Starter control relay signal (CAN: Transmitted from BCM): OFF • Starter control relay signal (CAN: Transmitted from IPDM E/R): OFF
B26F4: START CONT RLY OFF	Inhibit engine cranking	When the following conditions are fulfilled • Starter control relay signal (CAN: Transmitted from BCM): ON • Starter control relay signal (CAN: Transmitted from IPDM E/R): ON
B26F7: BCM	Inhibit engine cranking by Intelligent Key sys- tem	When room antenna and luggage room antenna functions normally
B26FE: HOOD SW CAN DIAG ERROR	Inhibit remote engine start	When the following conditions are fulfilled • Power position ON • Hood switch signal (CAN) is received normally

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

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

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

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

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

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< SYSTEM DESCRIPTION >

Condition of cancellation

- 1. More than 1 minute is passed after the rear wiper stop.
- Turn rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

FAIL-SAFE CONTROL OF COMBINATION SWITCH READING FUNCTION CAUSED BY LOW POWER SUPPLY VOLTAGE

If voltage of battery power supply lower, BCM maintains combination switch reading to the status when input voltage is less than approximately 9 V.

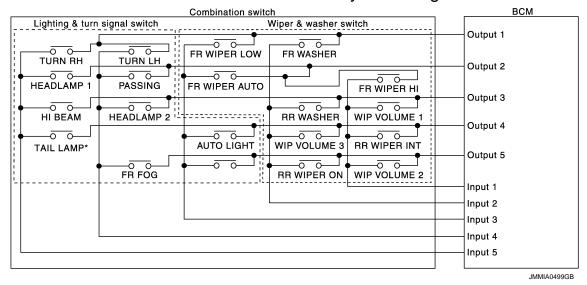
NOTE:

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

COMBINATION SWITCH READING SYSTEM

COMBINATION SWITCH READING SYSTEM: System Diagram

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NOTE

*: TAIL LAMP switch links lighting switch 1ST and 2ND positions.

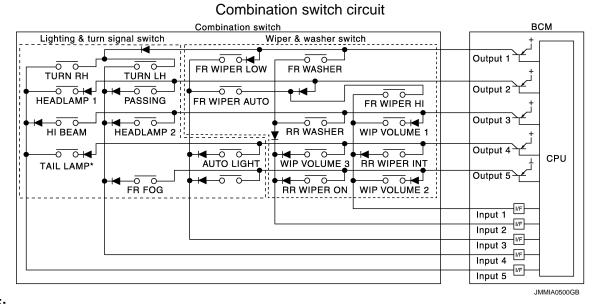
COMBINATION SWITCH READING SYSTEM: System Description

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OUTLINE

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

COMBINATION SWITCH MATRIX



NOTE:

*: TAIL LAMP switch links lighting switch 1ST and 2ND positions.

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 AUTO	PASSING	HEADLAMP 1
OUTPUT 3	WIP VOLUME 1	RR WASHER	_	HEADLAMP 2	HI BEAM
OUTPUT 4	RR WIPER INT	WIP VOLUME 3	AUTO LIGHT	_	TAIL LAMP
OUTPUT 5	WIP VOLUME 2	RR WIPER ON	_	FR FOG	_

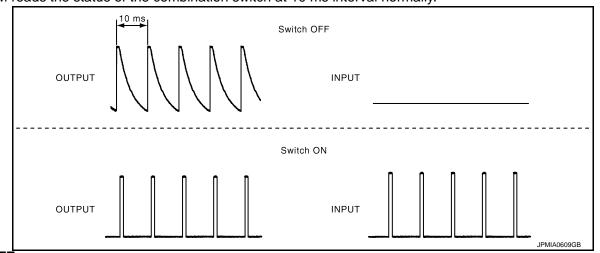
NOTE:

Headlamp has a dual system switch.

COMBINATION SWITCH READING FUNCTION

Description

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



NOTE:

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

- BCM operates as follows and judges the status of the combination switch.
- It operates the transistor on OUTPUT side in the following order: OUTPUT 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5, and outputs voltage waveform.

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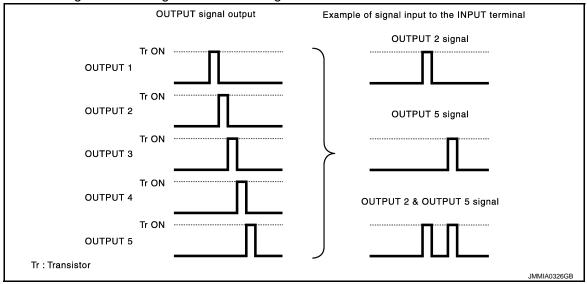
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- The voltage waveform of OUTPUT corresponding to the formed circuit is input into the interface on INPUT side if any (1 or more) switches are ON.
- It reads this change of the voltage as the status signal of the combination switch.

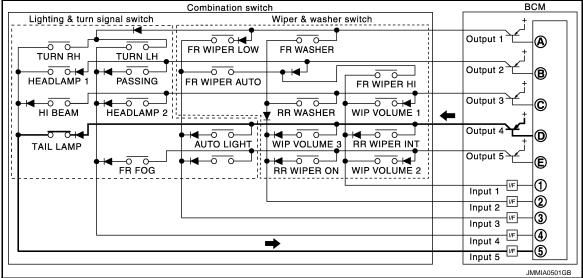


Operation Example

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 switch) is turned ON

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



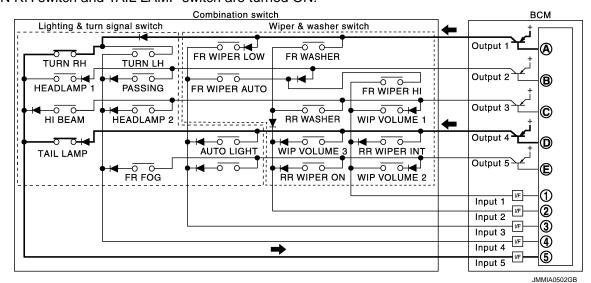
- BCM detects the combination switch status signal "5D" when the signal of OUTPUT 4 is input to INPUT 5.
- BCM judges that the TAIL LAMP switch is ON when the signal "5D" is detected.

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

SYSTEM

< SYSTEM DESCRIPTION >

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



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

WIPER VOLUME DIAL POSITION

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

Wiper volume	Switch status		
dial position	WIP VOLUME 1	WIP VOLUME 2	WIP VOLUME 3
1	ON	ON	ON
2	ON	ON	OFF
3	ON	OFF	OFF
4	OFF	OFF	OFF
5	OFF	OFF	ON
6	OFF	ON	ON
7	OFF	ON	OFF

NOTE:

For details of wiper volume dial position, refer to WW-7, "FRONT WIPER AND WASHER SYSTEM: System Description".

SIGNAL BUFFER SYSTEM

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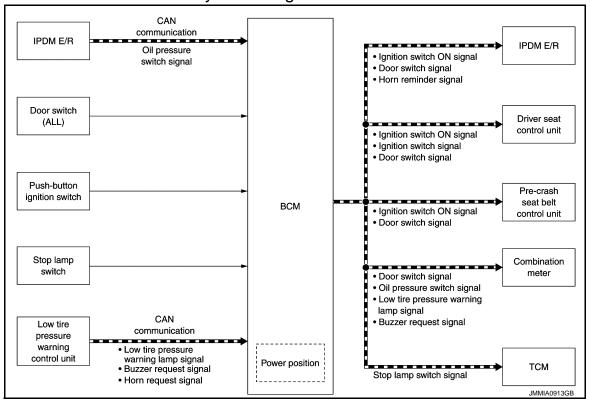
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SIGNAL BUFFER SYSTEM: System Diagram

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SIGNAL BUFFER SYSTEM: System Description

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OUTLINE

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

Signal name	Input	Output	Description
Ignition switch ON signal Ignition switch signal	Push-button ignition switch (Push switch)	IPDM E/R (CAN) Driver seat control unit (CAN) Pre-crash seat belt control unit (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) Driver seat control unit (CAN) Pre-crash seat belt control unit (CAN)	Inputs the door switch signal and transmits it via CAN communication.
Oil pressure switch signal	IPDM E/R (CAN)	Combination meter (CAN)	Transmits the received oil pressure switch signal via CAN communication.
Stop lamp switch signal	Stop lamp switch	TCM (CAN)	Inputs the stop lamp switch 1 signal and stop lamp switch 2 signal, and transmits it via CAN communication.
Low tire pressure warning lamp signal	Low tire pressure warning control unit	Combination meter (CAN)	Transmits the received low tire pressure warning signal via CAN communication.

Signal name	Input	Output	Description
Buzzer request signal	Low tire pressure warning control unit	Combination meter (CAN)	Transmits the received buzzer request signal via CAN communication.
Horn request signal	Low tire pressure warning control unit	IPDM E/R (CAN)	Received the horn request signal, transmits the horn reminder signal via CAN communication.

POWER CONSUMPTION CONTROL SYSTEM

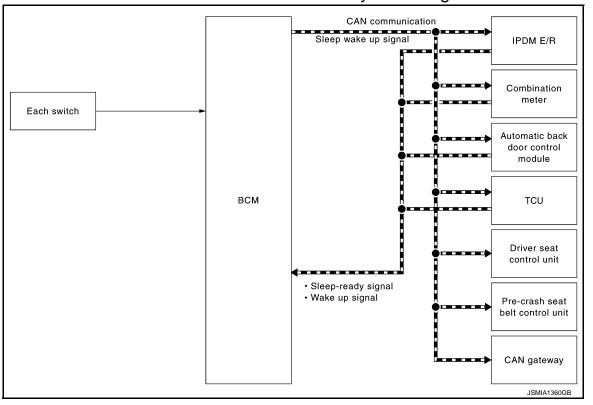
POWER CONSUMPTION CONTROL SYSTEM: System Diagram

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POWER CONSUMPTION CONTROL SYSTEM: System Description

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OUTLINE

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

Normal mode (wake-up)

- CAN communication is normally performed with other units
- Each control with BCM is operating properly

CAN communication sleep mode (CAN sleep)

- CAN transmission is stopped
- Control with BCM only is operating

Low power consumption mode (BCM sleep)

- Low power consumption control is active
- CAN transmission is stopped

LOW POWER CONSUMPTION CONTROL WITH BCM

BCM reduces the power consumption with the following operation in the low power consumption mode.

The reading interval of the each switches changes from 10 ms interval to 60 ms interval.

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SYSTEM

< SYSTEM DESCRIPTION >

Sleep mode activation

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

Sleep condition

CAN sleep condition	BCM sleep condition
Receiving the sleep-ready signal (ready) from all units Ignition switch: OFF Vehicle security system: Not operation Warning chime: Not operation Intelligent Key system buzzer: Not operation Stop lamp switch: OFF Turn signal indicator lamp: Not operation Exterior lamp: OFF Door lock status: No change CONSULT communication status: Not 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 IVIS: Not operation Remote keyless entry receiver communication status: No communication LOCK indicator lamp: Not operation ACC indicator lamp: Not operation ON indicator lamp: Not operation

Wake-up operation

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

Wake-up condition

BCM wake-up condition	CAN wake-up condition
Back door opener switch: OFF → ON	 Receiving the sleep-ready signal (Not-ready) from any units Push-button ignition switch (push switch): OFF→ ON Hazard switch: ON HI BEAM switch: OFF → ON, ON → OFF PASSING switch: OFF → ON, ON → OFF HEADLAMP 1 switch: OFF → ON, ON → OFF HEADLAMP 2 switch: OFF → ON, ON → OFF TAIL LAMP switch: OFF → ON FR FOG switch: OFF → ON, ON → OFF TURN RH: OFF → ON TURN LH: OFF → ON Driver door switch: OFF → ON, ON → OFF Passenger door switch: OFF → ON, ON → OFF Rear RH door switch: OFF → ON, ON → OFF Rear LH door switch: OFF → ON, ON → OFF Back door switch: OFF → ON, ON → OFF Driver door request switch: OFF → ON Passenger door request switch: OFF → ON Stop lamp switch: ON Door lock and unlock switch: NEUTRAL → LOCK, NEUTRAL → UNLOCK Door key cylinder switch: NEUTRAL → UNLOCK Remote keyless entry receiver communication: Receiving Front door lock assembly (driver side) (unlock sensor): OFF → ON, ON → OFF

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description		
Work Support	Changes the setting for each system function.		
Self Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-57, "DTC Index".		
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.		
Data Monitor	The BCM input/output signals are displayed.		
Active Test	The signals used to activate each device are forcibly supplied from BCM.		
Ecu Identification	The BCM part number is displayed.		
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM. 		

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

x: Applicable item Diagnosis mode System Sub system selection item Work Support **Data Monitor** Active Test Door lock DOOR LOCK × X X REAR DEFOGGER Rear window defogger X × Warning chime **BUZZER** × X Interior room lamp timer INT LAMP × × × Exterior lamp **HEAD LAMP** × × × **WIPER** Wiper and washer × **FLASHER** Turn signal and hazard warning lamps × AIR CONDITONER* × X · Intelligent Key system INTELLIGENT KEY × × X · Engine start system Combination switch COMB SW X Body control system **BCM** × **IVIS IMMU** X \times \times **BATTERY SAVER** Interior room lamp battery saver X \times X Back door **TRUNK** × THEFT ALM Vehicle security system X \times \times RAP system **RETAINED PWR** X Signal buffer system SIGNAL BUFFER X X AIR PRESSURE MONITOR* X X X

FREEZE FRAME DATA (FFD)

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

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^{*:} This item is indicated, but not used.

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer	r value) of 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 stopping and selector lever is except P position.)	
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)	
	ACC>OFF		While turning power supply position from "ACC" to "OFF"	
	OFF>LOCK	_	While turning power supply position from "OFF" to "LOCK"	
Vehicle Condition	OFF>ACC	Power position status of the moment a particular	While turning power supply position from "OFF" to "ACC"	
	ON>CRANK	DTC is detected	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 with steering is locked.)	
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)	
	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 switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

DOOR LOCK

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000009325311

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

WORK SUPPORT

< SYSTEM DESCRIPTION >

Monitor item	Description		
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operation with this mode On: Operate Off: Non-operation		
AUTOMATIC DOOR LOCK SE- LECT	 Automatic door lock function mode can be selected from the following in this mode VH SPD: All doors are locked when vehicle speed more than 24 km/h (15 MPH) P RANGE: All doors are locked when shifting the selector lever from P position to other than the P position 		
AUTOMATIC DOOR UNLOCK SELECT	 Automatic door unlock function mode can be selected from the following in this mode MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF MODE 2: All doors are unlocked when shifting the selector lever from any position other than the P to P position MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF MODE 4: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position MODE 5: This item is displayed, but cannot be used MODE 6: This item is displayed, but cannot be used 		
AUTOMATIC LOCK/UNLOCK SET	Automatic door lock/unlock function mode can be selected from the following in this mode Off: Non-operation Unlock Only: Door unlock operation only Lock Only: Door lock operation only Lock/Unlock: Lock and unlock operation		

DATA MONITOR

NOTE:

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

Monitor Item	Contents
REQ SW-DR	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-BD/TR	Indicated [On/Off] condition of back door request switch
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK	Indicated [On/Off] condition of back door switch
CDL LOCK SW	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW	Indicated [On/Off] condition of lock signal from door key cylinder switch
KEY CYL UN-SW	Indicated [On/Off] condition of unlock signal from door key cylinder switch

ACTIVE TEST

Test item	Description		
DOOR LOCK	This test is able to check door lock/unlock operation The all door lock actuators are locked when "ALL LOCK" on CONSULT screen is touched The all door lock actuators are unlocked when "ALL UNLK" on CONSULT screen is touched The front door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT screen is touched The front door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT screen is touched The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT screen is touched		

REAR WINDOW DEFOGGER

Revision: 2013 September BCS-17 2014 QX80

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< SYSTEM DESCRIPTION >

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

INFOID:0000000009325323

DATA MONITOR

NOTE:

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

Monitor Item	Description		
REAR DEF SW	This is displayed even when it is not equipped.		
PUSH SW	Indicates [ON/OFF] condition of push switch.		

ACTIVE TEST

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

BUZZER

BUZZER: CONSULT Function (BCM - BUZZER)

INFOID:0000000009325324

CONSULT APPLICATION ITEMS

Test item	Diagnosis mode	Description	
BUZZER	Data Monitor	Displays BCM input data in real time.	
DOZZEN	Active Test	Operation of electrical loads can be checked by sending driving signal to them.	

DATA MONITOR

NOTE:

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

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

ACTIVE TEST

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

INT LAMP

INT LAMP: CONSULT Function (BCM - INT LAMP)

INFOID:0000000009325320

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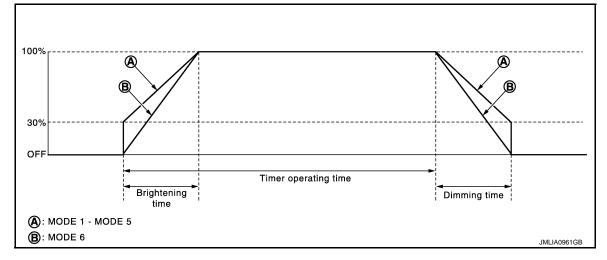
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WORK SUPPORT



Service item	Setting item	Setting	
SET I/L D-UNLCK INTCON	On*	With the interior room lamp timer function	
SET I/L D-UNLER INTOON	Off	Without the interior room lamp timer function	
	MODE 2	7.5 sec.	
ROOM LAMP TIMER SET	MODE 3*	15 sec.	Sets the interior room lamp ON time. (Timer operating time)
	MODE 4	30 sec.	
	MODE 1	0.5 sec.	
	MODE 2	1 sec.	
ROOM LAMP ON TIME SET	MODE 3	2 sec.	Sets the interior room lamp gradual brightening time.
ROOM LAMP ON TIME SET	MODE 4	3 sec.	
	MODE 5	0 sec.	
	MODE 6*	Gradually brightens from 0% to 100% brightness in 1 second.	
	MODE 1	0.5 sec.	
	MODE 2	1 sec.	
ROOM LAMP OFF TIME SET	MODE 3	2 sec.	Sets the interior room lamp gradual dimming time.
ROOM LAMP OFF TIME SET	MODE 4	3 sec.	
	MODE 5	0 sec.	
	MODE 6*	Gradually dims from 100% to 0% in 1 second.	
R LAMP TIMER LOGIC SET	MODE 1*	Interior room lamp timer activates with synchronizing all doors.	
R LAWIP HIVIER LOGIC SET	MODE 2	Interior room lamp timer activates with synchronizing the driver door only.	

DATA MONITOR

NOTE:

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

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Monitor item [Unit]	Description
REQ SW-DR [On/Off]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: This item is displayed, but cannot be monitored
REQ SW-RL [On/Off]	NOTE: This item is displayed, but cannot be monitored
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR [On/Off]	Indicates [On/Off] condition of driver door UNLOCK status
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW- RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW- BK [On/Off]	Indicated [On/Off] condition of back door switch
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder switch
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder switch
TRNK/HAT MNTR [On/Off]	NOTE: This item is displayed, but cannot be monitored
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key

ACTIVE TEST

Test item	Operation	Description	
INT I AMP		Outputs the interior room lamp control signal.	
INT LAWF	Off	Stops the interior room lamp control signal.	
STEP LAMP TEST	On	Outputs the step lamp control signal.	
STEF LAWIF TEST	Off	Stops the step lamp control signal.	

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEAD LAMP)

INFOID:0000000009325317

WORK SUPPORT

< SYSTEM DESCRIPTION >

Service item	Setting item	Setting		
	MODE 1*1	Normal		
CUSTOM A/LIGHT SETTING	MODE 2	More sensitive setting than normal setting (Turns ON earlier than normal operation)		
	MODE 3	More sensitive setting than MODE 2 (Turns ON earlier than MODE 2)		
	MODE 4	Less sensitiv	e setting than normal setting (Turns ON later than normal operation)	
BATTERY SAVER SET	On* ¹	With the exte	rior lamp battery saver function	
DATTERT DAVER DET	Off	Without the e	exterior lamp battery saver function	
	MODE 1*1	45 sec.		
	MODE 2	Without the function		
	MODE 3	30 sec.		
ILL DELAY SET	MODE 4	60 sec.	Sets delay timer function timer operation time (All doors closed)	
	MODE 5	90 sec.	(All doors closed)	
	MODE 6	120 sec.		
	MODE 7	150 sec.		
	MODE 8	180 sec.		
	MODE 1*1	With twilight ON custom & with wiper INT, LO and HI		
AUTO LIGHT LOGIC SET*2	MODE 2	With twilight ON custom & with wiper LO and HI		
	MODE 3	With twilight ON custom & without		
	MODE 4	Without twilight ON custom & with wiper INT, LO and HI		
	MODE 5	Without twilight ON custom & with wiper LO and HI		
	MODE 6	Without twilight ON custom & without		

^{*1:} Factory setting

DATA MONITOR

NOTE:

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

Monitor item [Unit]	Description
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
ENGINE STATE [Stop/Stall/Crank/Run]	Indicates [Stop/Stall/Crank/Run] condition of engine states
VEH SPEED 1 [km/h]	Display the vehicle speed signal received from combination meter by numerical value [Km/h]

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^{*2:} For models for Canada, this item is displayed but is not operated.

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description	
TURN SIGNAL R [On/Off]		
TURN SIGNAL L [On/Off]		
TAIL LAMP SW [On/Off]		
HI BEAM SW [On/Off]		
HEAD LAMP SW1 [On/Off]	Each switch status that BCM judges from the combination switch reading function	
HEAD LAMP SW2 [On/Off]		
PASSING SW [On/Off]		
AUTO LIGHT SW [On/Off]		
FR FOG SW [On/Off]		
RR FOG SW [Off]	NOTE: This item is displayed, but cannot be monitored	
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)	
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)	
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH	
DOOR SW- RL [On/Off]	Indicated [On/Off] condition of rear door switch LH	
DOOR SW-BK [On/Off]	Indicated [On/Off] condition of back door switch	
OPTICAL SENSOR [Off]	NOTE: This item is displayed, but cannot be monitored	
OPTI SEN (DTCT) [V]	The value of outside brightness voltage input from the optical sensor	
OPTI SEN (FILT) [V]	The value of outside brightness voltage filtered by BCM	

ACTIVE TEST

Test item	Operation	Description	
TAIL LAMP	On	Transmits the position light request signal to IPDM E/R via CAN communication to turn the tail lamp ON	
	Off	Stops the tail lamp request signal transmission	
	Hi	Transmits the high beam request signal via CAN communication to turn the headlamp (HI)	
HEAD LAMP	Lo	Transmits the low beam request signal via CAN communication to turn the headlamp (LO)	
	Off	Stops the high & low beam request signal transmission	
FR FOG LAMP	On	Transmits the front fog lights request signal to IPDM E/R via CAN communication to turn the front fog lamp ON	
	Off	Stops the front light request signal transmission	

< SYSTEM DESCRIPTION >

Test item	Operation	Description
RR FOG LAMP	On	NOTE:
RR FOG LAWIP	Off	This item is indicated, but can not tested
DAYTIME RUNNING LIGHT*	On	Transmits the front fog lights request signal to IPDM E/R via CAN communication to turn the front fog lamp ON (daytime running light system)
DAY TIME RUNNING LIGHT	Off	Stops the front light request signal transmission (daytime running light system)
ILL DIM SIGNAL	On	Transmits the dimmer signal to combination meter via CAN communication and dims combination meter Transmits the dimmer signal to AV control unit and dims display
	Off	Stops the dimmer signal transmission

^{*:} Only models for Canada display this item.

WIPER

WIPER: CONSULT Function (BCM - WIPER)

INFOID:0000000009325322

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WORK SUPPORT

Service item	Setting item	Description		
On*		With rain sensor (Front wiper intermittent time linked with the rain sensor, vehicle speed, and AUTO dial position)	The setting of front wiper AUTO operation can	
FUNC SET Off	Without rain sensor (Front wiper intermittent time linked with the vehicle speed and AUTO dial position)	be changed		
MODE1		Front wiper and rear wiper OFF		
DROP WIPE MODE2* FUNC SET MODE3 MODE4	MODE2*	Front wiper ON and rear wiper OFF	The setting of drop wipe operation can be	
	MODE3	Front wiper OFF and rear wiper ON	changed	
	MODE4	Front wiper and rear wiper ON		

^{*:}Factory setting

DATA MONITOR

NOTE:

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

Monitor Item [Unit]	Description		
PUSH SW [Off/On]	The switch status input from push-button ignition switch.		
VEH SPEED 1 [km/h]	Displays the value of the vehicle speed signal received from combination meter via CAN communication.		
FR WIPER HI [Off/On]			
FR WIPER LOW [Off/On]			
FR WASHER SW [Off/On]	Status of each switch judged by BCM using the combination switch reading function		
FR WIPER INT [Off/On]			
FR WIPER STOP [Off/On]	Displays the status of the front wiper stop position signal received from IPDM E/R via CAN communication.		
INT VOLUME [1 – 7]	Status of each switch judged by BCM using the combination switch reading function		

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< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description		
RR WIPER ON [Off/On]			
RR WIPER INT [Off/On]	Status of each switch judged by BCM using the combination switch reading function		
RR WASHER SW [Off/On]			
RR WIPER STOP [Off/On]	Rear wiper motor (stop position) status input from the rear wiper motor		
H/L WSR SW [Off/On]	NOTE: This item is indicated, but not monitored		
RAIN SENSOR [OFF/LOW/HIGH/SPLASH/NG]	Request signal from rain sensor detected by BCM is displayed		

ACTIVE TEST

Test item	Opera- tion	Description		
	Hi	Transmits the front wiper request signal (HI) to IPDM E/R via CAN communication to operate the front wiper HI operation.		
FR WIPER	Lo	Transmits the front wiper request signal (LO) to IPDM E/R via CAN communication to operate the front wiper LO operation.		
	INT	Transmits the front wiper request signal (INT) to IPDM E/R via CAN communication to operate the front wiper INT operation.		
	Off	Stops transmitting the front wiper request signal to stop the front wiper operation.		
RR WIPFR	On	Output the voltage to operate the rear wiper motor.		
IXIX WIF LIX	Off	Stops the voltage to stop the rear wiper motor.		
HEADLAMP WASHER*	On	Transmits the headlamp washer request signal to IPDM E/R via CAN communication operate the headlamp washer operation.		

^{*:} The item is displayed but not operated on models without headlamp washer.

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

INFOID:0000000009325319

WORK SUPPORT

Service item	Setting item	Setting		
	Lock Only	With locking only		
HAZARD ANSWER BACK	Unlk Only	With unlocking only	Sets the hazard warning lamp answer back function when the door is lock/unlock with the request switch or	
	Lock&Unlk*	With locking/unlocking	the key fob.	
	Off	Without the function		

^{*:} Factory setting

DATA MONITOR

NOTF:

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

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description	
REQ SW-DR [On/Off]	Indicates [On/Off] condition of door request switch (driver side)	
REQ SW-AS [On/Off]	Indicates [On/Off] condition of door request switch (passenger side)	
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch	
TURN SIGNAL R [On/Off]		
TURN SIGNAL L [On/Off]	Each switch status that BCM detects from the combination switch reading function	
HAZARD SW [On/Off]	The switch status input from the hazard switch	
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key	
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key	
RKE-PANIC [On/Off]	Indicates [On/Off] condition of PANIC button of Intelligent Key	

ACTIVE TEST

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

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000009325312

WORK SUPPORT

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch mode can be changed to operation in this mode On: Operate Off: Non-operation
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this mode On: Operate Off: Non-operation
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by back door opener switch can be changed to operation with this mode On: Operate Off: Non-operation
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key button can be selected from the following with this mode • MODE 1: 0.5 sec. • MODE 2: Non-operation • MODE 3: 1.5 sec.

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< SYSTEM DESCRIPTION >

Monitor item	Description
TRUNK OPEN DELAY	Back door open button pressing to Intelligent Key button can be selected as per the following in this mode • MODE 1: Press and hold • MODE 2: Press twice • MODE 3: Press and hold, or press twice
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operation with this mode On: Operate Off: Non-operation
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operation with this mode On: Operate Off: Non-operation
HAZARD ANSWER BACK	Hazard reminder function mode by door request switch and Intelligent Key button can be selected from the following with this mode Lock Only: Door lock operation only Unlock Only: Door unlock operation only Lock/Unlock: Lock and unlock operation Off: Non-operation
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch can be selected from the following with this mode • Horn Chirp: Sound horn • Buzzer: Sound Intelligent Key warning buzzer • Off: Non-operation
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operation with this mode On: Operate Off: Non-operation
SHORT CRANKING OUTPUT	Starter motor can operate during the times below • 70 msec • 100 msec • 200 msec
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode
AUTO LOCK SET	Auto door lock operation time can be changed in this mode • MODE 1: OFF • MODE 2: 30 sec. • MODE 3: 1 minute • MODE 4: 2 minutes • MODE 5: 3 minutes • MODE 6: 4 minutes • MODE 7: 5 minutes
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be selected from the following with this mode On: Operate Off: Non-operation
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode • MODE 1: 3 sec. • MODE 2: Non-operation • MODE 3: 5 sec.
WELCOME LIGHT SELECT	Welcome light function mode can be selected from the following with this mode Puddle/Outside Handle Room lamp Head & Tail Lamps (this item is displayed, but cannot be used) Heart Beat
WELCOME LIGHT OP SET	Welcome light function mode can be changed to operation with this mode On: Operate Off: Non-operation

SELF-DIAG RESULT

Refer to BCS-57, "DTC Index".

< SYSTEM DESCRIPTION >

DATA MONITOR

NOTE:

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

Monitor Item	Condition
REQ SW -DR	Indicates [On/Off] condition of door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
CLUTCH SW	NOTE: This item is displayed, but cannot be monitored
BRAKE SW 1	Indicates [On/Off]* condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
DETE/CANCL SW	Indicates [On/Off] condition of P position
SFT PN/N SW	Indicates [On/Off] condition of P or N position
S/L -LOCK	NOTE: This item is displayed, but cannot be monitored
S/L -UNLOCK	NOTE: This item is displayed, but cannot be monitored
S/L RELAY -F/B	NOTE: This item is displayed, but cannot be monitored
UNLK SEN -DR	Indicates [On/Off] condition of driver door UNLOCK status
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
DETE SW -IPDM	Indicates [On/Off] condition of P position
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
SFT P -MET	Indicates [On/Off] condition of P position
SFT N -MET	Indicates [On/Off] condition of N position
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states
S/L LOCK-IPDM	NOTE: This item is displayed, but cannot be monitored
S/L UNLK-IPDM	NOTE: This item is displayed, but cannot be monitored
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be monitored
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h]
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [Km/h]
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of unlock sensor
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger side door status
ID OK FLAG	Indicates [Set/Reset] condition of key ID
PRMT ENG STRT	Indicates [Set/Reset] condition of engine start possibility
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored

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< SYSTEM DESCRIPTION >

Monitor Item	Condition
RKE-PANIC	Indicates [On/Off] condition of PANIC button of Intelligent Key
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored
SHFTLCK SLNID PWR SPLY	Indicates [On/Off] condition of shift lock solenoid

^{*:} OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation On: Operate Off: Non-operation
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation On: Operate Off: Non-operation
INSIDE BUZZER	This test is able to check warning chime in combination meter operation • Take Out: Take away warning chime sounds when CONSULT screen is touched • Key: Key warning chime sounds when CONSULT screen is touched • Knob: OFF position warning chime sounds when CONSULT screen is touched • Off: Non-operation
INDICATOR	This test is able to check warning lamp operation KEY ON: "KEY" Warning lamp illuminates when CONSULT screen is touched KEY IND: "KEY" Warning lamp blinks when CONSULT screen is touched Off: Non-operation
INT LAMP	This test is able to check interior room lamp operation On: Operate Off: Non-operation
LCD	This test is able to check meter display information • Engine start information displays when "BP N" on CONSULT screen is touched • Engine start information displays when "BP I" on CONSULT screen is touched • Key ID warning displays when "ID NG" on CONSULT screen is touched • ROTAT: This item is displayed, but cannot be monitored • P position warning displays when "SFT P" on CONSULT screen is touched • INSRT: This item is displayed, but cannot be monitored • BATT: This item is displayed, but cannot be monitored • Take away through window warning displays when "NO KY" on CONSULT screen is touched • Take away warning display when "OUTKEY" on CONSULT screen is touched • OFF position warning display when "LK WN" on CONSULT screen is touched
FLASHER	This test is able to check security hazard lamp operation The hazard lamps are activated after "LH/RH/Off" on CONSULT screen is touched
P RANGE	This test is able to check A/T shift selector power supply On: Operate Off: Non-operation
ENGINE SW ILLUMI	This test is able to check push-button ignition switch illumination operation Push-ignition switch illumination illuminates when "ON" on CONSULT screen is touched
LOCK INDICATOR	This test is able to check LOCK indicator (push-button ignition switch) operation On: Operate Off: Non-operation
ACC INDICATOR	This test is able to check ACC indicator (push-button ignition switch) operation On: Operate Off: Non-operation

< SYSTEM DESCRIPTION >

Test item	Description
IGNITION ON IND	This test is able to check ON indicator (push-button ignition switch) operation On: Operate Off: Non-operation
HORN	This test is able to check horn operation On: Operate Off: Non-operation
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be used

COMB SW

COMB SW: CONSULT Function (BCM - COMB SW)

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DATA MONITOR

NOTE:

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

Monitor item [UNIT]	Description
FR WIPER HI [Off/On]	Displays the status of the FR WIPER HI switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER LOW [Off/On]	Displays the status of the FR WIPER LOW switch in combination switch judged by BCM with the combination switch reading function.
FR WASHER SW [Off/On]	Displays the status of the FR WASHER switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER INT [Off/On]	Displays the status of the FR WIPER AUTO switch in combination switch judged by BCM with the combination switch reading function.
INT VOLUME [1 - 7]	Displays the status of wiper volume dial position judged by BCM with the combination switch reading function.
RR WIPER ON [Off/On]	Displays the status of the RR WIPER ON switch in combination switch judged by BCM with the combination switch reading function.
RR WIPER INT [Off/On]	Displays the status of the RR WIPER INT switch in combination switch judged by BCM with the combination switch reading function.
RR WASHER SW [Off/On]	Displays the status of the RR WASHER switch in combination switch judged by BCM with the combination switch reading function.
TURN SIGNAL R [Off/On]	Displays the status of the TURN RH switch in combination switch judged by BCM with the combination switch reading function.
TURN SIGNAL L [Off/On]	Displays the status of the TURN LH switch in combination switch judged by BCM with the combination switch reading function.
TAIL LAMP SW [Off/On]	Displays the status of the TAIL LAMP switch in combination switch judged by BCM with the combination switch reading function.
HI BEAM SW [Off/On]	Displays the status of the HI BEAM switch in combination switch judged by BCM with the combination switch reading function.
HEAD LAMP SW 1 [Off/On]	Displays the status of the HEADLAMP 1 switch in combination switch judged by BCM with the combination switch reading function.
HEAD LAMP SW 2 [Off/On]	Displays the status of the HEADLAMP 2 switch in combination switch judged by BCM with the combination switch reading function.
PASSING SW [Off/On]	Displays the status of the PASSING switch in combination switch judged by BCM with the combination switch reading function.
AUTO LIGHT SW [Off/On]	Displays the status of the AUTO LIGHT switch in combination switch judged by BCM with the combination switch reading function.

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< SYSTEM DESCRIPTION >

Monitor item [UNIT]	Description
FR FOG SW [Off/On]	Displays the status of the FR FOG switch in combination switch judged by BCM with the combination switch reading function.
RR FOG SW [Off/On]	NOTE: The item is indicated, but not monitored.

BCM

BCM: CONSULT Function (BCM - BCM)

INFOID:0000000009010755

WORK SUPPORT

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

IMMU

IMMU: CONSULT Function (BCM - IMMU)

INFOID:0000000009325315

DATA MONITOR

NOTE:

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

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

ACTIVE TEST

Test item	Description
THEFT IND	This test is able to check security indicator lamp operation. Security indicator lamp is turned on when "ON" on CONSULT screen touched.

WORK SUPPORT

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

BATTERY SAVER

BATTERY SAVER: CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000009325321

WORK SUPPORT

< SYSTEM DESCRIPTION >

Service item	Setting item		Setting
	MODE 1	30 min.	
ROOM LAMP TIMER SET	MODE 2	60 min.	Sets the interior room lamp battery saver timer operating time.
	MODE 3*	15 min.	
BATTERY SAVER SET	On*	With the exterior lamp battery saver function	
DATIERT SAVER SET	Off	Without th	ne exterior lamp battery saver function

^{*:} Factory setting

DATA MONITOR

NOTE:

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

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: This item is displayed, but cannot be monitored
REQ SW-RL [On/Off]	NOTE: This item is displayed, but cannot be monitored
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR [On/Off]	Indicates [On/Off] condition of driver door UNLOCK status
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW- RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW- BK [On/Off]	Indicated [On/Off] condition of back door switch
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder switch
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder switch
TRNK/HAT MNTR [On/Off]	NOTE: This item is displayed, but cannot be monitored
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key

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< SYSTEM DESCRIPTION >

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

TRUNK

TRUNK: CONSULT Function (BCM - TRUNK)

INFOID:0000000009325313

DATA MONITOR

NOTE:

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

Monitor Item	Contents
PUSH SW	Indicates [On/Off] condition of push switch
UNLK SEN -DR	Indicates [On/Off] condition of unlock sensor
VEH SPEED 1	Indicates [Km/h] condition of vehicle speed signal from combination meter
TR/BD OPEN SW	Indicates [On/Off] condition of back door opener switch
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored

THEFT ALM

THEFT ALM: CONSULT Function (BCM - THEFT)

INFOID:0000000009325314

DATA MONITOR

NOTE:

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

Monitored Item	Description
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW -RR	NOTE: This item is displayed, but cannot be monitored.
REQ SW -RL	NOTE: This item is displayed, but cannot be monitored.
REQ SW -BD/TR	Indicates [ON/OFF] condition of back door request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
DOOR SW-BK	Indicates [ON/OFF] condition of back door switch.
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/unlock switch LH and RH.
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/unlock switch LH and RH.
KEY CYL LK-SW	Indicates [ON/OFF] condition of lock signal from door key cylinder.
KEY CYL UN-SW	Indicates [ON/OFF] condition of unlock signal from door key cylinder.
TR/BD OPEN SW	Indicates [ON/OFF] condition of back door opener switch.

< SYSTEM DESCRIPTION >

Monitored Item	Description	_
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored.	
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.	
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.	
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored.	

WORK SUPPORT

Service Item	Description
SECURITY ALARM SET	This mode is able to confirm and change security alarm ON-OFF setting.
THEFT ALM TRG	The switch which triggered vehicle security alarm is recorded. This mode is able to confirm and erase the record of vehicle security alarm. The trigger data can be erased by touching "CLEAR" on CONSULT screen.

ACTIVE TEST

Test Item	Description
THEFT IND	This test is able to check security indicator lamp operation. Security indicator lamp is turned on when "ON" on CONSULT screen is touched.
VEHICLE SECURITY HORN	This test is able to check horn operation. Horn is activated for 0.5 seconds after "ON" on CONSULT screen is touched.
HEADLAMP(HI)	This test is able to check headlamp operation. Headlamps are activated for 0.5 seconds after "ON" on CONSULT screen is touched.
FLASHER	This test is able to check hazard warning lamp operation. Hazard warning lamps are activated after "ON" on CONSULT screen is touched.

RETAIND PWR

RETAIND PWR: CONSULT Function (BCM - RETAINED PWR)

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Data monitor

NOTE:

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

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

SIGNAL BUFFER

SIGNAL BUFFER: CONSULT Function (BCM - SIGNAL BUFFER)

INFOID:0000000009010761

DATA MONITOR

NOTE:

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

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

ACTIVE TEST

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< SYSTEM DESCRIPTION >

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

ECU DIAGNOSIS INFORMATION

BCM

Reference Value INFOID:0000000009010762

VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

CONSULT MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch AUTO	Off
	Front wiper switch AUTO	On
ED WIDED STOD	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
NT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume dial position
RR WIPER ON	Other than rear wiper switch ON	Off
	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
OD WIDED CTOD	Rear wiper is in STOP position	Off
RR WIPER STOP	Rear wiper is not in STOP position	On
FUDAL CICALAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
FLIDAL CICALAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
	Lighting switch 1ST or 2ND	On
JI DEAM OW	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
IEAD LAMB CVA/ C	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
24.001110.0144	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIQUIT CIV	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
ED EOC SW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DOOD CW DK	Back door closed	Off
DOOR SW-BK	Back door opened	On
SDL LOCK SW	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
VEV 0VI 114 0VV	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
(E) (O) (1 LIN LOW)	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
14.74.D.D. O.W.	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
FAN ON SIG	NOTE: The item is indicated, but not monitored.	Off
AIR COND SW	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the key is not pressed	Off
NL-LOOK	LOCK button of the key is pressed	On
DKETINI OCK	UNLOCK button of the key is not pressed	Off
RKE-UNLOCK	UNLOCK button of the key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
DIVE DANIC	PANIC button of the key is not pressed	Off
RKE-PANIC	PANIC button of the key is pressed	On
RKE-MODE CHG	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the key is pressed and held simultaneously	On

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
ODTI CENI (DTCT)	Bright outside of the vehicle	Close to 5 V
OPTI SEN (DTCT)	Dark outside of the vehicle	Close to 0 V
ODTI CENI (EILT)	Bright outside of the vehicle (Lighting switch AUTO)	Close to 5 V
OPTI SEN (FILT)	Dark outside of the vehicle (Lighting switch AUTO)	Close to 1.50 V
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	Off
	No rain (or very light rain)	Off
	Light rain	LOW
RAIN SENSOR	Heavy rain	HIGH
	When liquid is splashed on the front window	SPLSH
	Rain sensor internal error	NG
DEC 0W DD	Driver door request switch is not pressed	Off
REQ SW -DR	Driver door request switch is pressed	On
D=0.0W.4.0	Passenger door request switch is not pressed	Off
REQ SW -AS	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
DEO OW DD/TD	Back door request switch is not pressed	Off
REQ SW -BD/TR	Back door request switch is pressed	On
DUOU OW	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
DDAKE OWA	The brake pedal is not depressed	Off
BRAKE SW 1	The brake pedal is depressed	On
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 2	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
	Selector lever in P position	Off
DETE/CANCL SW	Selector lever in any position other than P	On
OFT DAIAL CO.	Selector lever in any position other than P and N	Off
SFT PN/N SW	Selector lever in P or N position	On
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off
HNIK CEN DD	Driver door is locked	Off
UNLK SEN -DR	Driver door is unlocked	On
DUOLLOW IDEA	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On
10N BLV4 = 75	Ignition switch in OFF or ACC position	Off
IGN RLY1 -F/B	Ignition switch in ON position	On

< ECU DIAGNOSIS INFORMATION >

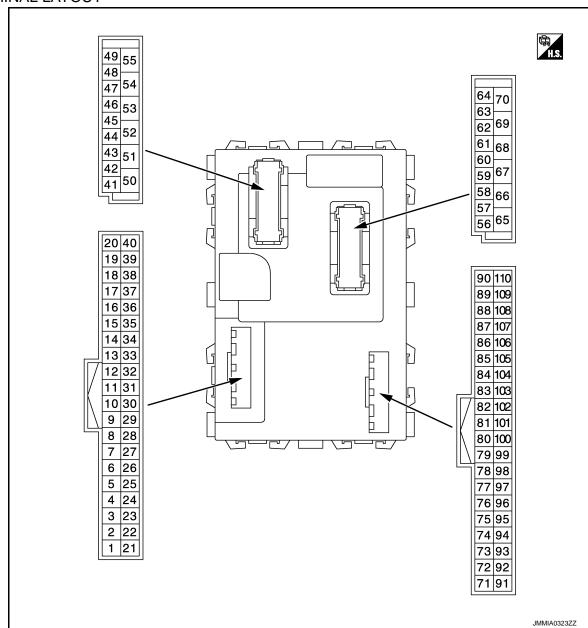
Monitor Item	Condition	Value/Status
DETE SW -IPDM	Selector lever in any position other than P	Off
DETE SW -IFDIVI	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N	Off
SEL EN -IEDINI	Selector lever in P or N position	On
OFT D. MET	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On
OFT N. MET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speed ometer reading
VEH SPEED 2	While driving	Equivalent to speed ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Shift position is in the P position)	Reset
	Ignition switch ON	Set
PRMT ENG STRT	The engine start is prohibited	Reset
PRIVIT ENGISTRI	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
RKE OPE COUN1	During the operation of the key	Operation frequency of the key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The key ID that the NATS antenna amp. receives is not recognized by any key ID registered to BCM.	Yet
CONFRINTID ALL	The key ID that the NATS antenna amp. receives is recognized by any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the NATS antenna amp. receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the NATS antenna amp. receives is recognized by the fourth key ID registered to BCM.	Done

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	- A
CONFIRM ID3	The key ID that the NATS antenna amp. receives is not recognized by the third key ID registered to BCM.	Yet	- A
CONFIRM ID3	The key ID that the NATS antenna amp. receives is recognized by the third key ID registered to BCM.	Done	В
CONFIRM ID2	The key ID that the NATS antenna amp. receives is not recognized by the second key ID registered to BCM.	Yet	_
CONFIRM ID2	The key ID that the NATS antenna amp. receives is recognized by the second key ID registered to BCM.	Done	_ C
CONFIRM ID1	The key ID that the NATS antenna amp. receives is not recognized by the first key ID registered to BCM.	Yet	D
CONTINUED I	The key ID that the NATS antenna amp. receives is recognized by the first key ID registered to BCM.	Done	
NOT REGISTERED	BCM detects registered key ID, or BCM does not detect key ID.	ID OK	Е
NOT REGISTERED	BCM detects non-registration key ID.	ID NG	_
TP 4	The ID of fourth key is not registered to BCM	Yet	– F
IF 4	The ID of fourth key is registered to BCM	Done	_ '
TP 3	The ID of third key is not registered to BCM	Yet	
IF 3	The ID of third key is registered to BCM	Done	G
TD 2	The ID of second key is not registered to BCM	Yet	
TP 2	The ID of second key is registered to BCM	Done	
ΓP 1	The ID of first key is not registered to BCM	Yet	_
IF I	The ID of first key is registered to BCM	Done	_
AIR PRESS FL	NOTE: The item is indicated, but not used.	0kPa	ı
AIR PRESS FR	NOTE: The item is indicated, but not used.	0kPa	 J
AIR PRESS RR	NOTE: The item is indicated, but not used.	0kPa	
AIR PRESS RL	NOTE: The item is indicated, but not used.	0kPa	K
D REGST FL1	NOTE: The item is indicated, but not used.	Done	_ L
D REGST FR1	NOTE: The item is indicated, but not used.	Done	_
D REGST RR1	NOTE: The item is indicated, but not used.	Done	ВС
WARNING LAMP	NOTE: The item is indicated, but not used.	Off	_ N
BUZZER	NOTE: The item is indicated, but not used.	Off	_
	Normal engine run mode (brake pedal is depressed)	On	_ 0
SHFTLCK SLNID PWR SPLY	 Normal engine run mode (brake pedal is not depressed) Remote engine run mode 	Off	

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TERMINAL LAYOUT



PHYSICAL VALUES

	nal No.	Description				Value						
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)						
					All switches OFF	0 V						
					Turn signal switch RH							
					Lighting switch HI	(V) 15						
2 (BR/Y)	Ground	Combination switch INPUT 5	Input	Input Combination switch (Wiper volume dial 4)	Lighting switch 1ST	10 5 0 PKIB4958J						
					Lighting switch 2ND	(V) 15 10 5 0 **10 ms JPMIAD342JP						
					All switches OFF	0 V						
				_	Turn signal switch LH	40						
					Lighting switch PASS	(V) 15						
3 (GR)	Ground	Combination switch INPUT 4	Input	t Combination switch (Wiper volume dial 4)	Lighting switch 2ND	10 5 0 ++10ms PKIB4958J 1.0 V						
,					Front fog lamp switch ON	(V) 15 10 5 0 ++10ms PKIB4956J						
					All switches OFF	0.8 V						
							Front wiper switch LO	-				
								O-militarii i	Combination	Front wiper switch MIST	(V)	
4	Graves	Combination switch	lnn::4	switch (Wiper volume dial 4)	Front wiper switch AUTO	(V) 15 10 5						
(L)	Ground	INPUT 3	Input		(Wiper volume	(Wiper volume	(Wiper volume	(Wiper volume	(Wiper volume	(Wiper volume	(Wiper volume	Lighting switch AUTO
						PKIB4958J 1.0 V						

	nal No.	Description			0 1111	Value
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	0 V
					Front washer switch ON (Wiper volume dial 4)	(V) 15
					Rear washer switch ON (Wiper volume dial 4)	10 5
5 (G)	Ground	Combination switch INPUT 2	Input	Combination switch	Any of the condition below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6	++10ms PKIB4958J
					Rear wiper switch ON (Wiper volume dial 4)	(V) 15 10 5 0
					All switches OFF	0.8 V
					(Wiper volume dial 4)	0 V
					Front wiper switch HI (Wiper volume dial 4)	(V) 15
					Rear wiper switch INT (Wiper volume dial 4)	10 5 0
					Wiper volume dial 3 (All switches OFF)	→ +10ms PKIB4958J
6 (V)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2	(V) 15 0 5 0 1.9 V
					Any of the condition below with all switches OFF • Wiper volume dial 6 • Wiper volume dial 7	(V) 15 10 5 0 ++10ms PKIB4956J 0.8 V

	inal No. e color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
8 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 20ms PKIA7023E 9.0 - 10 V
9 (R)	Ground	Stop lamp switch 1	Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(K)				SWIICH	ON (Brake pedal is depressed)	Battery voltage
				Ignition switch O	FF	12 V
11 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch O	DN .	(V) 15 10 5 0 JPMIA0156GB 8.0 - 9.0 V
14	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P/B)			•	ON	When dark outside of the vehicle	Close to 0 V
16 (L/O)	Ground	Dimmer signal	Output	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)	0 V
					The area around the vehi- cle is dark (Block the light from the optical sensor)	12 V
17 (Y/G)	Ground	Sensor power sup- ply	Output	Ignition switch	OFF, ACC	0 V 5 V
18 (B/Y)	Ground	Receiver and sensor ground	Input	Ignition switch O)N	0 V
19 (BR)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch O	PFF	(V) 15 10 5 0 MKIA3838GB

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
20	Ground	Remote keyless entry receiver commu-	Input	Ignition switch	Waiting	(V) 15 10 5 0 500 ms JMKIA3838GB
(G/R)	Godine	nication	mpu.	OFF	When operating either button on Intelligent Key	(V) 15 10 5 0 1 ms JMKIA3841GB
21 (P)	Ground	NATS antenna amp.	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 tester should move.
22	Ground	Remote keyless en-	Input	Ignition switch	Waiting	(V) 6 4 2 0 100 ms JMKIA5952GB
(W/B)				OFF	When pressing and hold- ing either button on Intelli- gent Key	(V) 6 4 2 0 100 ms JMKIA5953GB
					ON	0 V
23 (GR/R)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking (Ignition switch OFF)	(V) ₁₅ 10 5 0 → 1s JPMIA0590GB 11.0 - 12.0 V
					OFF	Battery voltage
24* (SB)	Ground	Dongle link	Input/ Output	Ignition switch O	FF 	5 V
25 (LG/R)	Ground	NATS antenna amp.	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 tester should move.

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Value	A		
+	-	Signal name	Input/ Output		Condition	(Approx.)			
26	Ground	Intelligent Key iden-	Output		DFF → ON, after unlocking registered to BCM	5 V	Е		
(O)	Cround	tification	Julput		OFF → ON, after unlocking registered to BCM	0 V			
29 (W)	Ground	Hazard switch	Input	Hazard switch	OFF ON	12 V 0 V			
(**)					Pressed	0 V			
30 (W/L)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.0 - 1.5 V	E		
31 (W/G)	Ground	Front door lock as- sembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V	H		
					UNLOCK status (Unlock sensor switch ON)	0 V			
00					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V	k L		
32 (LG)	Ground	Combination switch OUTPUT 5		Combination switch	Front fog lamp switch ON (Wiper volume dial 4)	(V)	В		
				Rear wiper switch ON (Wiper volume dial 4)	(V) 15 10 5	1			
							Any of the condition below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 6 • Wiper volume dial 7	PKIB4956J	

		Description				Value
(Wire	33 (Y) Ground	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 - 8.0 V
	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper volume dial 4)	
, ,					Lighting switch AUTO (Wiper volume dial 4)	(V) 15 10
					Rear wiper switch INT (Wiper volume dial 4)	5 0
					Any of the condition below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6	PKIB4958J 1.2 V
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 - 8.0 V
	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper volume dial 4)	
					Lighting switch HI (Wiper volume dial 4)	(V) 15 10
					Rear washer switch ON (Wiper volume dial 4)	5
					Any of the condition below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 3	PKIB4958J

	nal No.	Description	l			Value	Λ	
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	А	
35		Combination switch		Combination switch	All switches OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V	B C D	
(R/W)	Ground	OUTPUT 2	Output	(Wiper volume dial 4)	Lighting switch 2ND	(1)		
				,	Lighting switch PASS Front wiper switch AUTO	(V) 15 10 5	Е	
			Front wiper switch HI	Front wiper switch HI	0 → +10ms PKIB4958J	F		
						1.2 V	G	
36		Combination switch	TPUT 1 Output (Wiper volume	Output switch	cwitch	All switches OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V	Н
(SB)	Ground	OUTPUT 1		Output (V		Turn signal switch RH		J
						Turn signal switch LH	(V) 15 10	J
					Front wiper switch LO Front wiper switch MIST	5	K	
					Front washer switch ON	→ →10ms PKIB4958J	L	
37	Ground	P position	Input	Selector lever	P position	0 V		
(G/Y)	Ground	η ρυσιμυπ	Input	Selector level	Any position other than P	12 V	BCS	
39 (L)	Ground	CAN-H	Input/ Output		_	_		
40 (P)	Ground	CAN-L	Input/ Output		_	_	Ν	
43 (Y/L)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) ₁₅ 10 5 0 + 10ms JPMIA0593GB 9.0 - 10.0 V	O P	
					ON (When back door opened)	0 V		

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
44		Rear wiper stop po-		Ignition switch	Rear wiper stop position	12 V
(G/W)	Ground	sition	Input	ON ON	Any position other than rear wiper stop position	0 V
45 (W)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) 15 0 5 0 → 10ms PKIB4960J 7.0 - 8.0 V
					ON (When passenger door opened)	0 V
46 (GR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (When rear RH door closed)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
					ON (When rear RH door opened)	0 V
47 (GR/R)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
					ON (When driver door opened)	0 V
48 (O)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (When rear LH door closed)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
					ON (When rear door LH opened)	0 V
49	Ground	Luggage room lamp	Output	Luggage room	OFF	12 V
(BR/Y)	Crodila		Carput		ON un mode (Brake pedal is de-	0 V
50 (B/Y)	Ground	Remote engine start	Output	Normal engine not depressed Remote engine		Battery voltage

	inal No. e color)	Description			0 100	Value	/
+	-	Signal name	Input/ Output		Condition	(Approx.)	,
51	Ground	Back door request	Input	Back door re-	ON (Pressed)	0 V	[
(W/R)	Glound	switch	прис	quest switch	OFF (Not pressed)	12 V	
54	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V	
(L)	Ground	iteal wipel	Output	Real Wiper	ON (Activated)	12 V	
55	Ground	Rear door UNLOCK	Output	Rear door	UNLOCK (Actuator is activated)	12 V	
(G)	Ground	real door one one	Output	real door	Other then UNLOCK (Actuator is not activated)	0 V	
					p battery saver is activated. room lamp power supply)	0 V	
56 (W/R)	Ground	Interior room lamp power supply	Output	vated.	p battery saver is not acti- rior room lamp power sup-	12 V	
57 (LG)	Ground	Battery power sup- ply	Input	Ignition switch Ol	FF	Battery voltage	
58 (R/W)	Ground	Air bag signal	Input	_		_	
59	Ground	Passenger door UN-	Output	Passenger door	UNLOCK (Actuator is activated)	12 V	
(G)	Greana	LOCK	Gaipai	r acconger acci	Other then UNLOCK (Actuator is not activated)	0 V	
					Turn signal switch OFF	0 V	
60 (G)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s 1s PKIC6370E 6.0 - 7.0 V	
					Turn signal switch OFF	0 V	
61 (G/Y)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 PKIC6370E 6.0 - 7.0 V	В
62 (B)	Ground	Step lamp	Output	Step lamp	ON	0 V	
(R)			•		OFF	12 V	
63 (BB)	Ground	Interior room lamp	Output	Interior room	OFF	12 V	
(BR)		control	•	lamp	ON	0 V	

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
					Engine stopped (Selector lever is in P position)	0 V
64 (GR/R)	Ground	Cranking request	input	Ignition switch ON	Engine stopped (Selector lever is not in P position)	12 V
					Engine running	12 V
65	Ground	All doors, fuel lid	Output	All doors, fuel lid	LOCK (Actuator is activated)	12 V
(R)	Ground	LOCK	Output	7 III doors, ruci iid	Other then LOCK (Actuator is not activated)	0 V
66	Ground	Driver door, fuel lid	Output	Driver door, fuel	UNLOCK (Actuator is activated)	12 V
(V)	Oround	UNLOCK	Output	lid	Other then UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch Ol	N	0 V
68 (Y)	Ground	P/W power supply (IGN)	Output	Ignition switch Ol	N	12 V
69 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch O	FF	12 V
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage
72 (P)	Ground	Puddle lamp control	Output	Puddle lamp	OFF ON	12 V 0 V
73	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(W)		,			ON	0 V
					Turn signal switch OFF	Battery voltage
74 (Y/B)	Ground	Trailer turn signal RH control	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 PKIC6370E 6.0 - 7.0 V
75		Driver door request		Driver door re-	ON (Pressed)	0 V
(LG/R)	Ground	switch	Input	quest switch	OFF (Not pressed)	12 V
76		Push-button ignition		Push-button ig-	Pressed	0 V
(SB)	Ground	switch (push switch)	Input	nition switch (push switch)	Not pressed	12 V
					Turn signal switch OFF	Battery voltage
77 (O/L)	Ground	Trailer turn signal LH control	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s 1s PKIC6370E 6.0 - 7.0 V

	inal No. e color)	Description			Condition	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
78	Ground	Driver door antenna	Output	When the driver door request	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0	(
(P/B)	Glound	(+)	Output	switch is operat- ed with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 5 0 JMKIA5955GB	
79	Constitution	Driver door antenna	0.4-4	When the driver door request	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 500 ms JMKIA5954GB	
(V)	Ground	(-)	Output	switch is operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 JMKIA5955GB	
80	Ground	Passenger door an-	Output	When the passenger door request switch is	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 JMKIA5954GB	В
(LG/B)	Glound	tenna (+)	Cutput	operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 JMKIA5955GB	

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
81	Ground	Passenger door an-	Output	When the passenger door request switch is	When Intelligent Key is not in the antenna detec- tion area (The distance between In- telligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 JMKIA5954GB
(Y/R)	Ciodila	tenna (-)	Output	operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 JMKIA5955GB
82	Ground	Back door antenna	Output	When the back door request	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 JMKIA5954GB
(W/G)	Glound	(+)	Output	switch is operat- ed with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 JMKIA5955GB
83	Ground	Back door antenna (-	Output	When the back door request	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 JMKIA5954GB
(B/W)	Ground		Output	switch is operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 JMKIA5955GB

	inal No. e color)	Description	1		Condition	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	,
84		Room antenna 1 (+)		Ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 11 1 III 1)
(BR)	Ground	(Instrument center)	Output	ŎN	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB	ı
85	Ground	Room antenna 1 (-)	Output	Ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 1	
(Y)	Glound	(Instrument center)	Output	ON	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB	ı
86	Ground	Room antenna 2 (+)	Output	Ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB	В
(W)	Ground	(Console)	Output	ON	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB	[

	nal No.	Description				Value
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)
87		Room antenna 2 (–)		Ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB
(B)	Ground	(Console)	Output	ŎN	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB
88	Ground	Luggage room an-	Output	Ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB
(V)	Sidurid	tenna (+)	Сири	ON	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB
89	Ground	Luggage room an-	Output	Ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB
(G)	Glound	tenna (-)	Output	ON	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB

	nal No. color)	Description			On a distant	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
90		Push-button ignition		Push-button ig-	ON	12 V	
(Y)	Ground	switch illumination	Output	nition switch illu- mination	OFF	0 V	
91	Ground	LOCK indicator lamp	Output	LOCK indicator	OFF (Ignition switch OFF)	Battery voltage	
(O)	Giodila	LOCK mulcator lamp	Output	lamp	ON	0 V	
					OFF	0 V	
		Push-button ignition				NOTE: When the illumination brightening/dimming level is in the neutral position	
92 (L)	Ground	switch illumination ground	Output	Tail lamp	ON	15 10 5 0	
						JPMIA1554GB 6.0 - 7.0 V	
93	Ground	Intelligent Key warn-	Output	Intelligent Key	Sounding	0 V	
(GR/R)	Glodila	ing buzzer	Output	warning buzzer	Not sounding	12 V	
96	Ground	ACC relay control	Output	Ignition switch	OFF	0 V	
(BR)	Ground	Acc relay control	Output	ignition switch	ACC or ON	12 V	
97	Ground	Starter relay control	Output	Ignition switch	When selector lever is in P or N position	12 V	
(R/W)	Oround	Clarter relay control	Output	ON	When selector lever is not in P or N position	0 V	
98	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	12 V	
(O)	Ground	E/R) control	Output	ignition switch	ON	0 V	
99	Ground	Ignition relay-1 con-	Output	Ignition switch	OFF or ACC	0 V	
(R)	Cround	trol	Output	ignition switch	ON	12 V	
100	Ground	Passenger door re-	Input	Passenger door	ON (Pressed)	0 V	
(P/L)	J. Garia	quest switch	put	request switch	OFF (Not pressed)	12 V	
101	Ground	Ignition power sup-	Output	Ignition switch	OFF or ACC	0 V	
(W/B)		ply No. 2		g - 211 211.101.	ON	12 V	E
102	Ground	P/N position	Input	Selector lever	P or N position	12 V	
(BR)		·	1 2	5.5.	Except P and N positions	0 V	
104 (R/B)	Ground	A/T shift selector (detention switch) power supply	Output	Ignition switch O	N	12 V	
105 (O/L)	Ground	Stop lamp switch 2	Input	Ignition switch O	FF	Battery voltage	
106	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V	
(Y/G)	Giodila	lay control	Output	ignition switch	ON	12 V	
109 (L/W)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	
(L/ VV)		-			ACC	0 V	

^{*:} For Canada

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	Ignition switch ON → OFF
B2198: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2608: STARTER RELAY	Inhibit engine cranking	 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B260F: ENG STATE SIG LOST	Inhibit engine cranking	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B261B: RES ENG RUN STUCK MALFUNC	Fuel cut	When engine status signal (CAN) is received normally
B26F1: IGN RELAY OFF	Inhibit engine cranking	When the following conditions are fulfilled Ignition switch ON signal (CAN: Transmitted from BCM): ON Ignition switch ON signal (CAN: Transmitted from IPDM E/R): ON
B26F2: IGN RELAY ON	Inhibit engine cranking	When the following conditions are fulfilled Ignition switch ON signal (CAN: Transmitted from BCM): OFF Ignition switch ON signal (CAN: Transmitted from IPDM E/R): OFF
B26F3: START CONT RLY ON	Inhibit engine cranking	When the following conditions are fulfilled • Starter control relay signal (CAN: Transmitted from BCM): OFF • Starter control relay signal (CAN: Transmitted from IPDM E/R): OFF
B26F4: START CONT RLY OFF	Inhibit engine cranking	When the following conditions are fulfilled Starter control relay signal (CAN: Transmitted from BCM): ON Starter control relay signal (CAN: Transmitted from IPDM E/R): ON
B26F7: BCM	Inhibit engine cranking by Intelligent Key sys- tem	When room antenna and luggage room antenna functions normally
B26FE: HOOD SW CAN DIAG ERROR	Inhibit remote engine start	When the following conditions are fulfilled • Power position ON • Hood switch signal (CAN) is received normally

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

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

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

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

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

- 1. More than 1 minute is passed after the rear wiper stop.
- Turn rear wiper switch OFF.
- Operate the rear wiper switch or rear washer switch.

FAIL-SAFE CONTROL OF COMBINATION SWITCH READING FUNCTION CAUSED BY LOW POWER SUPPLY VOLTAGE

< ECU DIAGNOSIS INFORMATION >

If voltage of battery power supply lower, BCM maintains combination switch reading to the status when input voltage is less than approximately 9 V.

NOTE:

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

DTC Inspection Priority Chart

INFOID:0000000009010764

Α

В

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

Priority	DTC	г
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM U1010: CONTROL UNIT (CAN)	
3	B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI-SCANNING B2196: DONGLE NG B2198: NATS ANTENNA AMP	ŀ
	B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2601: SHIFT POSITION B2602: SHIFT POSITION	
	B2603: SHIFT POSI STATUS B2604: PNP/CLUTCH SW B2605: PNP/CLUTCH SW B2608: STARTER RELAY	ŀ
	 B260F: ENG STATE SIG LOST B2614: BCM B2615: BCM B2616: BCM 	ı
4	 B2618: BCM B261A: PUSH-BTN IGN SW B261B: RES ENG RUN STUCK MALFUNC 	J
	 B26F1: IGN RELAY OFF B26F2: IGN RELAY ON B26F3: START CONT RLY ON B26F4: START CONT RLY OFF 	K
	B26F6: BCMB26F7: BCMB26F8: BCM	L
	 B26F9: CRANK REQ CIR SHORT B26FA: CRANK REQ CIR OPEN B26FC: KEY REGISTRATION B26FE: HOOD SW CAN DIAG ERROR U0415: VEHICLE SPEED 	ВС
5	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA	N
6	 B2626: OUTSIDE ANTENNA B2627: OUTSIDE ANTENNA B2628: OUTSIDE ANTENNA 	C
7	B26E7: TPMS CAN COMM	P

DTC Index INFOID:0000000009010765

The details of time display are as follows.

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

BCS-57 Revision: 2013 September 2014 QX80

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to BCS-15, "COM-MON ITEM: CONSULT Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM	_	_	_	BCS-83
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-84
U0415: VEHICLE SPEED	×	_	×	BCS-85
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-58
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-59
B2195: ANTI-SCANNING	×	_	_	SEC-60
B2196: DONGLE NG	×	_	_	<u>SEC-61</u>
B2198: NATS ANTENNA AMP	×	_	_	SEC-63
B2555: STOP LAMP	_	×	×	SEC-67
B2556: PUSH-BTN IGN SW	_	×	×	SEC-70
B2557: VEHICLE SPEED	×	×	×	SEC-72
B2562: LOW VOLTAGE	_	×	_	BCS-86
B2601: SHIFT POSITION	×	×	×	SEC-73
B2602: SHIFT POSITION	×	×	×	SEC-76
B2603: SHIFT POSI STATUS	×	×	×	SEC-79
B2604: PNP/CLUTCH SW	×	×	×	SEC-83
B2605: PNP/CLUTCH SW	×	×	×	SEC-85
B2608: STARTER RELAY	×	×	×	SEC-87
B260F: ENG STATE SIG LOST	×	×	×	SEC-89
B2614: BCM	_	×	×	PCS-57
B2615: BCM	_	×	×	PCS-60
B2616: BCM	_	×	×	PCS-62
B2618: BCM	_	×	×	PCS-64
B261A: PUSH-BTN IGN SW	_	×	×	PCS-65
B261B: RES ENG RUN STUCK MAL- FUNC	×	×	×	SEC-90
B2621: INSIDE ANTENNA	_	×	_	DLK-106
B2622: INSIDE ANTENNA	_	×	_	DLK-108
B2623: INSIDE ANTENNA	_	×	_	DLK-110
B2626: OUTSIDE ANTENNA	_	×	_	DLK-112
B2627: OUTSIDE ANTENNA	_	×	_	<u>DLK-114</u>
B2628: OUTSIDE ANTENNA	_	×	_	<u>DLK-116</u>
B26E7: TPMS CAN COMM	_	_	_	BCS-87
B26F1: IGN RELAY OFF	×	×	×	PCS-67
B26F2: IGN RELAY ON	×	×	×	PCS-69
B26F3: START CONT RLY ON	×	×	×	SEC-91
B26F4: START CONT RLY OFF	×	×	×	SEC-92
B26F6: BCM	_	×	×	PCS-71

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
B26F7: BCM	×	×	×	SEC-93
B26F8: BCM	_	×	×	SEC-94
B26F9: CRANK REQ CIR SHORT	_	×	×	SEC-95
B26FA: CRANK REQ CIR OPEN	_	×	×	SEC-97
B26FC: KEY REGISTRATION	_	×	×	SEC-99
B26FE: HOOD SW CAN DIAG ERROR	×	×	×	SEC-100

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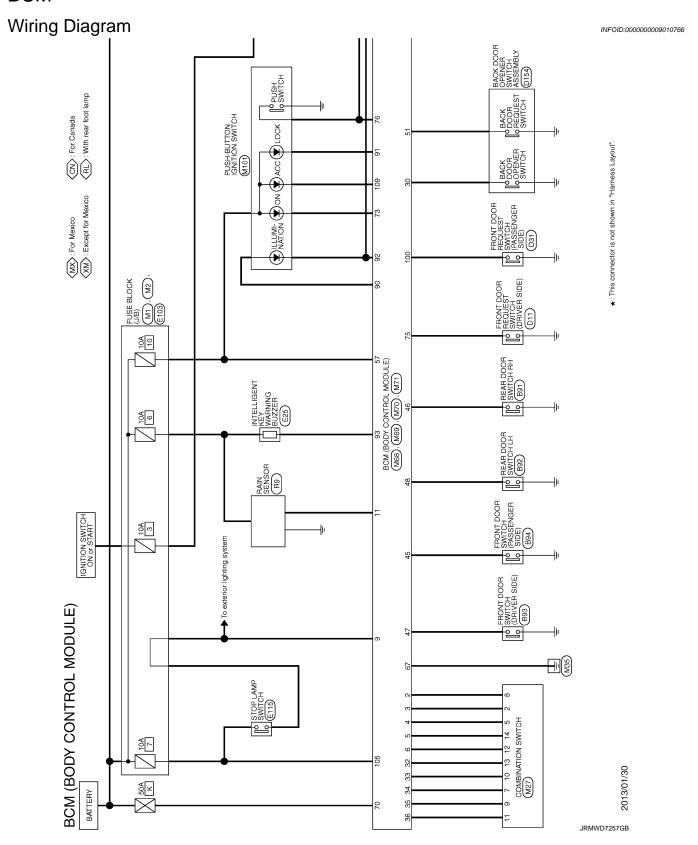
BCS

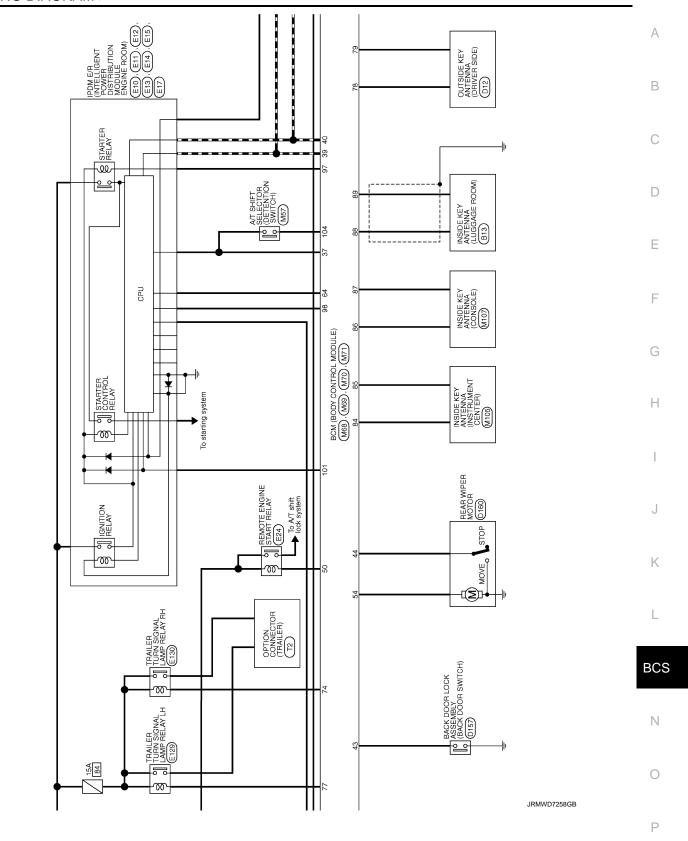
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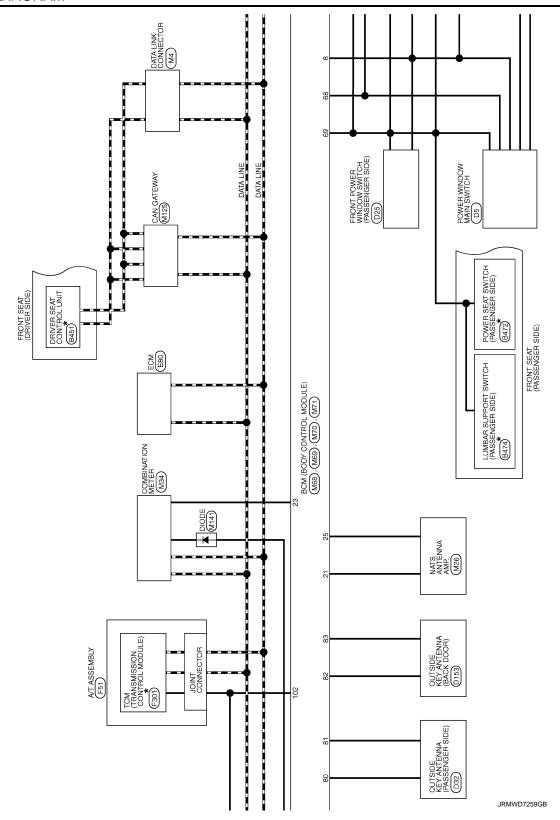
0

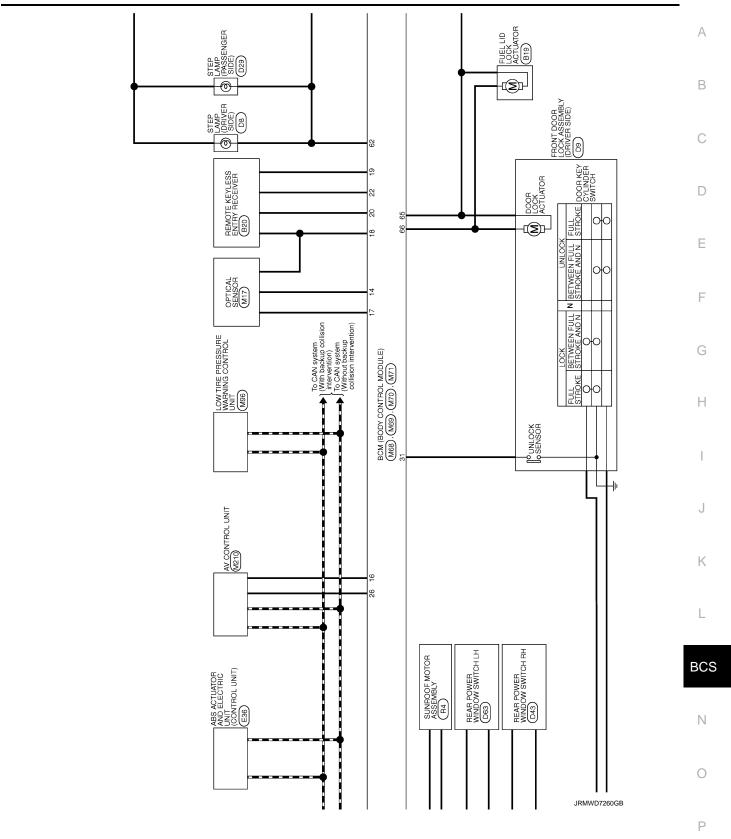
WIRING DIAGRAM

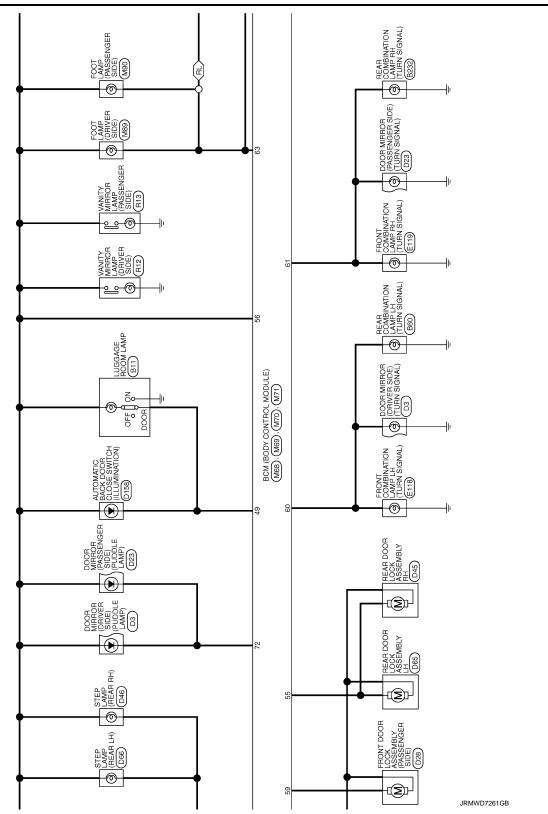
BCM

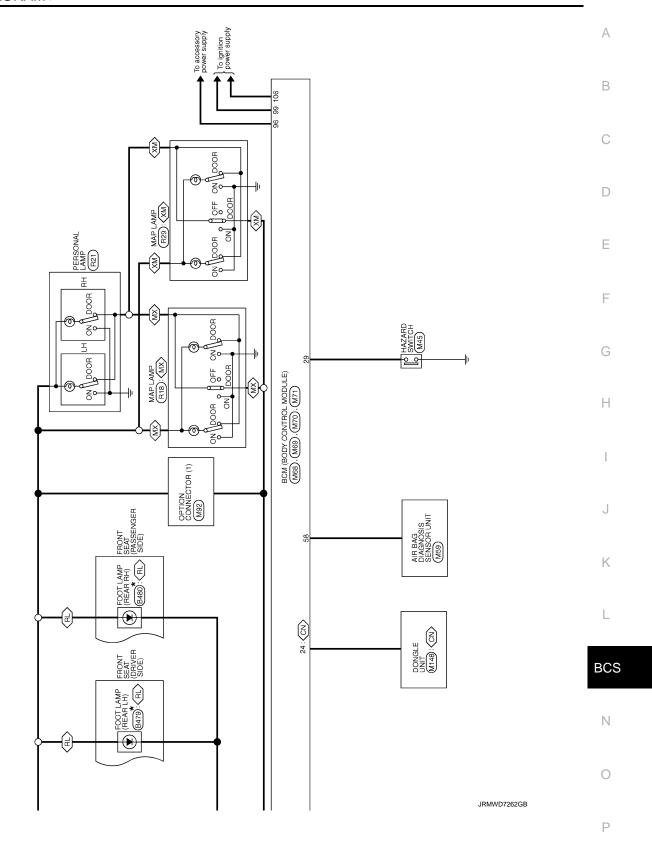












Corrector Ne. 892 Corrector Nerse REAR DOOR SWITCH LH Corrector Type THO4FW-NH	H.S.	Terminal Color Of Signal Name Specification 3	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) 3 GRR DOOR SW. DR 4 B GND G
Corrector No. BE0 Corrector Name REAR COMBINATION LAMP LH Corrector Type NSD4FW-CS	H.S.	No. No.	Terminal Cobor Of Signal Name [Specification] No. Wire Signal Name [Specification] A
Connector No. B19 Connector Name FUEL LID LOCK ACTUATOR Connector Type MOMEWLC.	H.S.	Terminal Color Of Signal Name (Specification) No. Wire 1 V 2 R Connector No. B20 Connector Name REMOTE KEYLESS ENTRY RECEIVER Connector Type TROAFW TROAFW	Terminal Color Of Signal Name [Specification] Wire Signal Name [Specification]
BCM (BODY CONTROL MODULE) Corrector Name LUGGAGE ROOM LAMP Corrector Name TKGSFW	H.S.	Termina Color Of Signal Name Specification No. Wure	Terminal Color Of Signal Name [Specification] No. Wire 1 V 2 G

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Comeder No. 1970	1 9	COLLIBERTO INGLIE	Connector Type A02FW	38 304 4230 1	Signal Name (Specification) Terminal Color Of Signal Name (Specification)	. 69			- Constitution No. 10.100	-	Connector Name FOOT LAMP (REAR RH)	- Connector Type A02FW			K	LUMBAR SUPPORT SWITCH (PASSENGER SIDE)	ho eo				<u>a</u>	No. Wire	43 33 40 45	. 99			Signal Name [Specification]						
Connector No BA72	9		Connector Type NS10FW-CS	H.S.	Terminal Color Of Signal Nar No. Wire	33 R	34 B	+	38 GR	- 2	-	43 -			Connector No. B474	Connector Name LUMBAR SUPPORTS	П	Connector Type NS04FW-CS	,	_		_	₩ ₩				nal Color Of	No. Wire	Ŧ	╁	╀	┨	
PAST	Connector Name DRIVER SEAT CONTROL INIT	DRIVER SEAL CONTROL ONL	TH32FW-NH	1 2 4 5 6 7 8 9 10 11 12 17 18 19 20 21 12 22 23 24 25 25 7 28	Of Signal Name [Specification]	CAN-H			TELE	ADDRESS Z	SLIDE SI	RECLINER SW (BACKWARD)	FRONT LIFTER SW (DOWNWARD)	REAR LIFTER SW (DOWNWARD)	SENSOR POWER SUPPLY				IN.	TILT SENSOR			4		FRONT LIFTER SW (UPWARD)	REAR LIF	SET SW						
Connector No	Connector Nam		Connector Type	H.S.	Terminal Color Of No. Wire	1 RY	2 R	+	+	0 1	8 SB	6	10 L/B	11 LW	12 L/R	+	+	+	+	┪	+	\dashv	+	25 Y/B	26 Y/R	27 Y/L	28 G						
BCM (BODY CONTROL MODULE)	FRONT DOOR SWITCH (PASSENGER SIDE)	OWI CT (TASSENGEN SIDE)	Connector Type TH04FW-NH	H.S.	Terminal Color Of Signal Name [Specification] T	3 W DOOR_SW_AS	4 B GND		A PANCO	COMPOSITOR INC. B232	Connector Name REAR COMBINATION LAMP RH	Connector Type NS04FW-CS				1					ā	_	7	2 R	3 G/Y -	4 B -							

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BCM (BODY CONTROL MODULE)			
Connector No. D3	Connector No. D5	Connector No. D9	Connector No. D12
Connector Name DOOR MIRROR (DRIVER SIDE)	Connector Name POWER WINDOW MAIN SWITCH	Connector Name FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)	Connector Name OUTSIDE KEY ANTENNA (DRIVER SIDE)
Connector Type TH24MW-NH	Connector Type NS16FW-CS	Connector Type E06FGY-RS	Connector Type RK02MGY
	-		<
	0 4		
12 11 10 9 8 7 6 5 3 2 2 2 2 1 20 19 18 17 16 15 14		H.S. (1 2 3 4 5 6)	H.S.
Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification]
+	+	$^{+}$	$^{+}$
T	H	2 v	2 \
9		3 W/G -	
7 SIDE CAMERA LA POWER SUPPLY	7 B	0 ≫	Connector No. 1723
8 0	<i>→</i> 6	+	1
Н	10 W/B		Comfector Name DOUR MIRROR (PASSENGER SIDE)
\top	+		Connector Type TH24MW-NH
+	12 G/W	Connector No. D11	
12 LW	13 V	Connector Name FRONT DOOR REQUEST SWITCH (DRIVER SIDE)	
F	-	Connector Type RK02FL	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
П			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SHIELD	- 1	<	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
18 B SIDE CAMERA LH GND	Connector No. D8		
19 %	Connector Name STEP LAMP (DRIVER SIDE)		Terminal Color Of
21	Connector Type TB02FW	GH CH	No. Wire Signal Name [Specification]
H			2 R/W -
23 W/L -			3 W SIDE CAMERA LH COMM
24 Y -		<u>la</u>	+
	1		w -
		1 LG/R	
		1	t
			10 V -
) lai		Н
			7
			\dashv
	2 R -		┪
			Т
			SHELD
			+
			+
			21 R/B .

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Corrector No. D45 Corrector Name REAR DOOR LOCK ASSENBLY RH Corrector Type ED6FGY-RS	H.S.	Terminal Color Of Signal Name (Specification) No. Wire 1 G 	Connector No. Du6 Connector Name STEP LAMP (REAR RH) Connector Type TB02FW	H.S.	Terminal Color Of Signal Name (Specification) No. Wife
Corrector No. D32 Corrector Name OUTSIDE KEYANTENNA (PASSENER SIDE) Corrector Type RK(C2M)GY	H.S.	Terminal Color Of Signal Name [Specification] No. Wire 1 LG/B 	Corrector No. D43 Corrector Name REAR POWER WINDOW SWITCH RH Corrector Type NS16FW-CS	H.S.	Terminal Color Of No. Wire Signal Name (Specification) No. Wire No. No. No.
Connector No. D29 Connector Name STEP LAMP (PASSENGER SIDE) Connector Type TB02FW	H.S.	Terminal Color Of Signal Name Specification No. Wire	Connector No. 1031 Connector Name recontroce recuest senticity connector Type RRUZFL	H.S.	Terminal Color Of Nore Signal Name (Specification) No. Wire Signal Name (Specification) 1 PPL
BCM (BODY CONTROL MODULE) 22 UR	Connector Name Rrow Powers wherew switch passeswent size; Connector Type NS16FW-CS	H.S. 8 9 100 11 12 16 16	0	12 G/Y 15 G/W 16 V	Cornector No. D28 Cornector Name Froot cock ASSEMBLY (PASSENGER SBE) Cornector Type E106FGY-RS Terminal Color Of Signal Name (Specification) 1

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BCM (BODY CONTROL MODULE) Connector No. D63	Connector No. D66	Connector No. D154	Connector No. D158	
Connector Name REAR POWER WINDOW SWITCH LH	Connector Name STEP LAMP (REAR LH)	Connector Name BACK DOOR OPENER SWITCH ASSEMBLY	Connector Name AUTOWATIC BACK DOOR CLOSE SWITCH	
Connector Type NS16FW-CS	Connector Type TB02FW	Connector Type TH04MW-NH	Connector Type TK06FGY	
H.S.	H.S.	H.S.	H.S.	
Terminal Color Of Signal Name [Specification] No. Wire 3 S.	Terminal Color Of Signal Name [Specification] No. Wine 1	Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification)	
	2 0 -		2 8	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Compediat No. 10153	4 W/R	4 BRY	
+	<u>p</u>	Connector No. D157	Corrector No. D160	
15 L	Connector Type RK02FL	Connector Name BACK DOOR LOCK ASSEMBLY	Connector Name REAR WIPER MOTOR	
	<	Connector Type NS08FW-CS	Connector Type CJ04FW-1V	
Connector No. D65 Connector Name REAR DOOR LOCK ASSEMBLY LH Connector Type E06EGY-RS	H.S.	H.S.	H.S.	
	Terminal Color Of Signal Name (Specification)			
	1 W/G -	Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification] No. Wire	
		+	+	
		4 G/Y	5 SWW	
Terminal Color Of Signal Name [Specification]		Н		
Wile		7 Y/L		
2 G -		8 B		

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60 V/R	Corrector No. E17 Corrector Name Power (Results) Power (Result	H.S.	3 5 5 5 5 5 5 5 5 5
Corrector No. E14 Corrector Name presse (no.) Corrector Name (NSTAFER-CS)	138 38	Terminal Color Of Nove Signal Name (Specification) Nove Signal Name (Specification) Signal Name (Specification)	<u>1 [</u>
Comedor No. E12 Comedor Name Inches recursion recover commence where it is not because recommended to the commence of the comm	H.S.	Terminal Color Of Signal Name (Specification) 18 E	0 S R R R R R R R R R R R R R R R R R R
BCM (BODY CONTROL MODULE) Cornector No. E10 Cornector None Person (Pinch and Control of Cornector Payer (NOSFW-LC) Cornector Type (MOSFW-LC)	H.S.	E11 PDM ERR II MO6FFB	Permisol Jodor OI Signal Name (Specification) 9 B

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BCM	(BOD	BCM (BODY CONTROL MODULE)							
Connector No.	No.	E25	37	Н	STP	158	W/B	STOP LAMP SWITCH	Connector No. E115
Connector Name		INTELLIGENT KEY WARNING BUZZER	38	W/l	VDC OFF SW	161	W/W	ECM COMMUNICATION LINE	Connector Name STOP LAMP SWITCH
Contractor Tuno	Т	000000	14	<u>ن</u> ا	CAN-H	163	570	ECM RELAY (SELF SHUT-OFF)	Company Time Management
0000	1	NNOSEBN	ŕ	+	SLOP EAWE SW ON	166	200	ECM COMMINICATION INE	
_	•					169	G/B	ENGINE SPEED SIGNAL OUTPUT	
	•	<	Conn	Connector No.	E80	171	×	POWER SUPPLY FOR ECM	
1	Į					12	3	POWER SLIPPLY FOR ECM	3 4
Ę	Ç		S	Connector Name	ECM	173	: 0	THROTTI E CONTROL MOTOR POWER SUPPLY	100
Ī	į		Conne	Connector Type	MAB55FB-MEB10-LH	174	- m	ECM GROUND	
	1					175	ď	FCM GROLIND	
			_	7		2			
Terminal Color Of	Color Of	3 3 3		•	to a large for the feet for the feet				Terminal Color Of
9	Wire	Signal Name [Specification]				Connector No.		E103	No. Wire Signal Name [Specification]
-	>		_	ý E	3 3 3			000000000000000000000000000000000000000	1 UB
3	GR/R	BUZZER SIGNAL	1	i i	2	Connect	Connector Name	FUSE BLOCK (J/B)	2 R
						Connector Type	Г	NS16FW-CS	3 6
									4 L/R
Connector No.	П	E36	Termina	0	Signal Name (Specification)		1		
Connector Name	Mama	ABS ACTUATOR AND REPOTRIC UNIT CONTROL LIND	ġ	. Wire			•		
	2		11	\dashv	FUEL INJECTOR DRIVER POWER SUPPLY			6F 4F 2F 1F	Connector No. E118
Connector	Type	Connector Type SAZ42FB-SJZ4	112	2 SB	FUEL INJECTOR DRIVER POWER SUPPLY		⊘	15F14F 10F 9F 8F	H AMB NOTE H AMB H
			113	9 8			1		CONTROLL CONTROLL CONTROLL CITY
-	7		114	4 B	ECM GROUND				Connector Type RS08FB-PR
	1		115	9 2	ECM GROUND				
		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	120	۸	EVAP CANISTER VENT CONTROL VALVE	Terminal	Color Of	1	[
Ę	ľ		122	2 BR/W	VVEL ACTUATOR MOTOR RELAY ABORT SIGNAL (VVEL CONTROL MODULE)	2		Signal Name [Specification]	
	j		123	3 V/R	THROTTLE CONTROL MOTOR RELAY	10F	Ø		((12) 3 4)
			125	┞	FUEL PUMP CONTROL MODULE (FPCM)	14F	>		(8 2 8)
			126	┡	ACCELERATOR PEDAL POSITION SENSOR 2	15F	c		
Terminal Color Of	Solor Of		128	╀	ASCD/ICC STEERING SWITCH	#	W/B		
٤	Wire	Signal Name [Specification]	120	Ľ	CNICOGO GOSNAS	д.	۵		
+	ď	RAT	130	+	SENSON CICCUM	4F	2 ر		Terminal Color Of
. ,	0	i d		ŀ	Vide in driving doors	į	, ,		No Mine Signal Name [Specification]
7 0	٥	GNS GNS	122	+	SENSOR FOWER SUFFL!	5 6	2 0		+
,	3	Siddle of order	3 3	+	THE TEMPERATURE SOFFEI	5 6	3 >		- 0
4 C	+		136	+	ACCELEDATOR DEDAIL DOSITION SENSOR	L D			9 9
9 5	2 2		2 2	+	SCHOOL DOWED SINDS				Ŧ
5 5	+	PDAKE ELIID I EVEL SIM	13 5	+	DATTEDY CLIBBENT SENSOR				ť
2 !	5	Brane rudio Level SW	2 3	+	DALIERT CORRENI SENSOR				$^{+}$
_	5	SIPZ	138	+	BALLERY LEMPERALORE SENSOR				9/5/1
18	W/B	IGN	140	4	SENSOR GROUND				. LG .
19	0	DS FR	141	-	IGNITION SWITCH				8 G
20	SB	DP FL	142	2 R/W	FUEL PUMP CONTROL MODULE (FPCM) CHECK				
21	R/O	DS RR	143	3 L/Y	EVAP CONTROL SYSTEM PRESSURE SENSOR				
22	^	DP RL	144	4 O/B	REFRIGERANT PRESSURE SENSOR				
27	Ь	CAN-L	146	- F	CAN COMMUNICATION LINE				
33	ΓG	DP FR	147	7 G/Y	ASCD/ICC BRAKE SWITCH				
34	9	DS FL	150	0 R	SENSOR GROUND				
32	BR	DP RR	151	1 P	CAN COMMUNICATION LINE				
36	Д	DS RL	156	9 F	POWER SUPPLY FOR ECM (BACK-UP)				

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BCM (BODY CONTROL MODULE)	Connector No	E130	Connector No		1301	Connector No	Г	W	
_ e	Connector Name		Connec	Je J	TCM (TRANSMISSION CONTROL MODULE)	Connect	or Name	Connector Name FUSE BLOCK (J/B)	
Connector Type RS08FB-PR	Connector Type	MS02FL-M2-LC	Connec		SP10FG	Connect	Connector Type	NS10FW-CS	
		35]	7	12345		7	82 82 87	
H.S.	H.S.	2 <u>X1</u>	7	S.	01887		Ξ.	100 88 66 50	
Terminal Color Of Signal Name [Specification]	Terminal Color Of No. Wire	f Signal Name [Specification]	Terming No.	Terminal Color Of No. Wire	Signal Name [Specification]	Termina No.	Ferminal Color Of No. Wire	Signal Name [Specification]	
1 B	1 Y/B	-	-	ŀ	IGNITION POWER SUPPLY	10B	W/B		
2 B -	2 L		2		BATTERY POWER SUPPLY	18	ď		
3 B	+		9		CANH	3B	ď		
+	5 Y/G		4 4		K-LINE	48	œ 5		
			n 60		IGNITION POWER SUPPLY	8 8	¥ >		
H	Connector No.	F51	7		BACK-UP LAMP RELAY	8	. 0/1		
8 G/Y -	Connector Name	A/T ASSEMBLY	8 6		CAN-L STARTER REI AV				
	Connector Type RK10FG	RK10FG	9	ŀ	GROUND	Connector No.	Г	M4	
Connector No. E129		~				Connect	or Name	Connector Name DATA LINK CONNECTOR	
Connector Name TRAILER TURN SIGNAL LAMP RELAY LH			Connec	Connector No.	2	Connector Type	1	BD16FW	
Connector Type MS02FL-M2-LC	•	5 4 3 2 1	Connec	9	FLISE BLOCK (J/B)				
	H.S.	9 8 7 8	Connec	tor Type	Connector Type NS06FW-M2		1		
2] .	,		_	T	11 12 13 14 16	
	Terminal Color Of			1		7	Į.	3 4 5 6 7 8	
	No. Wire			Ţ	3A 2A 1A				
	+	IGNITION POWER SUPPLY	•	νį	8A 7A 6A 5A 4A	ŀ	0		
Terminal Color Of	2 8	DATTERY POWER SOFFICE	l	ĺ		S S	No. Wire	Signal Name [Specification]	
No. Wire Signal Name [Specification]	4 SB	K-LINE				က	97		
1 G/B -	Н	GROUND	Termina	Terminal Color Of	Sional Name [Specification]	4	Ф		
2 L	> 9	IGNITION POWER SUPPLY	ġ Ž	Wire	figure laboration of the state	2	В	•	
\forall	7 R	BACK-UP LAMP RELAY	4	>		9	7		
5 G/W	8	CAN-L	2A	S.		7	SB		
		STARTER RELAY	3A	×	•	00	GR		
	10 B	GROUND	4A	A/G		Ξ	gg I		
			5A	> 3		12	œ .		
			49 ×2	<u> </u>		£ 5	7 0		
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BCM (BODY CONTROL MODULE)				
Connector No. M17	Connector No. M27	8 P/L	TRIP RESET SWITCH SIGNAL	Connector No. M57
Connector Name OPTICAL SENSOR	Connector Name COMBINATION SWITCH	11 G	ENTER SWITCH SIGNAL	Connector Name A/T SHIFT SELECTOR
		+	+	\neg
Connector Type TK03FW	Connector Type TH16FW-NH		+	Connector Type TH16FW-NH
•		+	ILLUMINATI	
		+		
		+	_	
	1 2 3 4 5 6	7	A/C A/U	1 2 3 4 5
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	7 8 9 10 11 12 13 14	20 B	AMBIENT SENSOR GROUND	2 0 0 7
		+	CANT	0 7 1 0 6
		+	CAN-L	
		\dashv	GROUND	
ā	평	24 V	FUEL LEVEL SENSOR GROUND	a a
Organia I Marile	No. Wire Ogran wine Opcomentarion	25 O/L	_	No. Wire Ognariwanic Lepecinication
1 Y/G POWER	1 W/B	26 W	PARKING BRAKE SWITCH SIGNAL	1 G/W -
10	2 GR OUTPUT 4	_		2 L/W
3 B/Y GND	3 L/R	29 BR	-	3 Y/B
	4 W IGN	30 SB		4 B/SB -
	5 L OUTPUT 3	31 BR/W	/ VEHICLE SPEED SIGNAL (8-PULSE)	5 R/Y .
Connector No. M26	6 B GND	33 W		
Connector Name NATS ANTENNA AMP		\dashv	┪	10 B .
Company of the control of the contro	8 BRY OUTPUT 5	35 O/B		11 L/R
Connector Type TH04FW-NH	9 R/W INPUT 2	+	PASS	+
	>		┪	_
	11 SB INPUT 1	38 L/W	2	14 G/Y -
	>	+	MAN	
1031	97	40 G/W	MANUAL MODE SIGNAL	ſ
	14 G OUTPUT 2			Connector No. M59
		Connector No.	M45	Connector Name AIR BAG DIAGNOSIS SENSOR UNIT
	Connector No. M34		_	Connector Type NH28FY-EX
	١,	Connector Name	HAZARD SWITCH	
No. Wire Signal Name [Specification]	Connector Name COMISINATION METER	Connector Type TK04FW	TK04FW	
1 L BAT	Connector Type TH40FW-NH			8 9 7 6 2 4 3
2 P CLK				
3 LG/R DATA				19 2 2 2 2
4 B GND			2 1 2 4	18 60 59 25 57 1
	1 2 3 4 5 7 8 11 12 13 14 15	ΗS	+ 7	
	112 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			Territorio
				No. Wire Signal Name [Specification]
		Terminal Color Of	L	1 R/L IGN
	Terminal Color Of	No. Wire	Signal Name [Specification]	2 B GND
	No. Wire Signal Name [Specification]	- B		
	1 Y BATTERY POWER SUPPLY	2 W		4 Y/R DR1 (-) DR2 (-)
	2 GR IGNITION SIGNAL	3 1/0		6 Y/L AS1 (+)
		4 B		Y/B
	<u>в</u>			Β/Y
	— В 1			+
	7 R TOW MODE SIGNAL			18 0 ECZS (+)

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BC	1 (BOD	BCM (BODY CONTROL MODULE)										
19	W	ECZS (-)	35 F	R/W	COMBI SW OUTPUT 2	Terminal	Terminal Color Of	Cinciposition Concidential	88	9	LAGGAGE ROOM ANT-	
22	SHIELD	GND	36	SB	COMBI SW OUTPUT 1	ġ	Wire	oignal rame [opecincation]	90	Υ	PUSH-BTN IGN SW ILL PWR	
23	R/W	AIRBAG W/L	37 (G/Y	SHIFT P	26	W/R	INT ROOM LAMP PWR SPLY	91	0	LOCK IND	
24	ďς	SEATBELT W/L	39	_	CAN-H	22	ρ	BAT (FUSE)	95	7	LOW SIDE PUSH LED	
22	۲	CUTOFF TELLTALE	40	۵	CAN-L	28	R/W	SHOCK DETECT_SENS	93	GR/R	I-KEY WARN BUZZER	
22	W.	DEPLOYMENT_INFORMATION				29	g	PASSENGER DOOR UNLK OUTPUT	96	BR	ACC RELAY CONT	
29	_	CAN-H				09	O	TURN SIGNAL LH OUTPUT	26	RW	STARTER RELAY CONT	
09	Ь	CAN-L	Connector No.	lo. M69		19	УΘ	TURN SIGNAL RH OUTPUT	86	0	IGN RELAY (IPDM E/R) CONT	
			Connector Name	- MOG	G II IOOM IOBENOO AGOS MOS	62	ч	STEP LAMP CONT	66	ч	IGN RELAY (F/B) CONT	
				all le	(POD) COUNTY (POD)	63	BR	ROOM LAMP TIMER CONT	100	P/L	PASSENGER DOOR REQUEST SW	
Connector No.		M68	Connector Ty	ype FEA0	Connector Type FEA09FB-FHA6-SA	64	GR/R	CRANKING REQUEST	101	W/B	IGN PWR SPLY 2	
Jones	- Nomon	G II IGOW IOGENOO AGOO! WOO				65	۲	ALL DOOR LOCK OUTPUT	102	BR	SHIFT NP	
2		BOW (BOD) CONTROL MODOLE)		•		99	^	DR DOOR, FUEL LID UNLK OUTPUT	104	R/B	AVT SHIFT SELECT PWR SPLY	
Connec	Connector Type T	TH40FB-NH	1	5		29	В	GND	105	O/L	STOP LAMP SW 2	
					43 44 45 46 47 48 49	68	\	PW PWR SPLY (IGN)	106	J//G	BLWR FAN MTR RELAY CONT	
	7		Ę	7	50 51 54 55	69	W	PW PWR SPLY (BAT)	109	N/T	ACC IND	
	ļ			<u> </u>		70	>	BAT (F/L)				
_	É	2 3 4 5 6 8 9 11 14 17 18 19 20 21 22 23 24 5 8 8 9 11 22 23 24 15 15 15 25 25 25 25 25 25 25 25 25 25 25 25 25							Connector No.	Г	08W	
4	2		Terminal Color Of	ior Of		Connector No.	l	M71				
			o N	Wire	Signal Name [Specification]		Г		Connect	or Name	Connector Name FOOT LAMP (DRIVER SIDE)	
			t	<u> </u>	BK DOOR SW	Connecto	Connector Name	BCM (BODY CONTROL MODULE)	Connect	Connector Type A02FW	ANSEW	
Terming	Terminal Color Of		t	L	REAR WIPER STOP POSITION	Connecto	Connector Type	TH40FW-NH				
2	Wire	Signal Name [Specification]	t	Ļ	PASSENGER DOOR SW		7		_	7		
2	BR/Y	COMBI SW INPUT 5	H	GR	REAR RH DOOR SW		7			1	K	
က	GR	COMBI SW INPUT 4	H	GR/R	DRIVER DOOR SW		•		_	Ī	K	
4	_	COMBI SW INPUT 3	L	0	REAR LH DOOR SW		į	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5	Ø	12	
2	9	COMBI SW INPUT 2	Н		LUGGAGE ROOM LAMP CONT	4	ď	81 92 93 183 183 183 183 183 183 183 183 183 18		į]	
9	>	COMBI SW INPUT 1		B/≺	REMOTE ENGINE START		3					
∞	>	POWER WINDOW SW COMM	\dashv	W/R	BACK DOOR REQ SW							
6	ď	STOP LAMP SW 1	54		REAR WIPER OUTPUT				Termina	erminal Color Of	Signal Name [Specification]	
1	ч	RAIN SENSOR SERIAL LINK	55	g	REAR DOOR UNLK OUTPUT	Terminal	Terminal Color Of	Cianal Nama [Cracification]	ō N	Wire	orginal varies [openinearion]	
14	P/B	OPTICAL SENSOR				o N	Wire	orginal realite [opeomoaron]	-	W/R		
16	D/0	DIMMER SIGNAL				72	Ь	PUDDLE LAMP CONT	2	J/K		
17	5/A	SENSOR PWR SPLY	Connector No.	lo. M70		73	Μ	QNINO				
18	B/Y	RECEIVER/SENSOR GND	Connector Name		(3 II IUOW IOBINOS AUGB) MSB	74	Y/B	TRAILER TURN SIG RH CONT				
19	Ж	RECEIVER PWR SPLY			(Social Socialists)	75	LG/R	DRIVER DOOR REQUEST SW				
50	G/R	KYLS ENT RECEIVER COMM	Connector Type		FEA09FW-FHA6-SA	92	SB	PUSHSW				
21	۵	NATS ANT AMP.		,		77	J/O	TRAILER TURN SIG LH CONT				
22	W/B	KYLS ENT RECEIVER RSSI				78	P/B	DRIVER DOOR ANT+				
23	GR/R	SECURITY IND CONT		·	56 57 58 50 80 61 69 83 64	79	^	DRIVER DOOR ANT-				
24	SB	DONGLE LINK			3 3	80	LG/B	PASSENGER DOOR ANT+				
52	LG/R	NATS ANT AMP.	Ë	7	65 66 67 68 69 70	81	Y/R	PASSENGER DOOR ANT-				
56	0	INTELLIGENT KEY IDENTIFICATION	4	9		82	M/G	BACK DOOR ANT+				
58	W	HAZARD SW				83	B/W	BACK DOOR ANT-				
30	T/M	BK DOOR OPNR SW				84	BR	ROOM ANT1+				
31	M/G	DR DOOR UNLOCK SENSOR				85	>	ROOM ANT1-				
32	PP	COMBI SW OUTPUT 5				98	≯	ROOM ANT2+				
33	>	COMBI SW OUTPUT 4				87	ω	ROOM ANT2-				
34	W	COMBI SW OUTPUT 3				88	^	LAGGAGE ROOM ANT+				

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BCM (BODY CONTROL MODULE)								
Connector No. M90	Conne	Connector No.	M96	Connector No.	lo. M101	Connector No. M107		
Connector Name FOOT LAMP (PASSENGER SIDE)	Conne	Connector Name	LOW TIRE PRESSURE WARNING CONTROL UNIT	Connector Name	lame PUSH-BUTTON IGNITION SWITCH	Connector Name INSIDE K	INSIDE KEY ANTENNA (CONSOLE)	
Connector Type A02FW	Conne	sctor Type	Connector Type TH32FW-NH	Connector 1	Connector Type TK08FBR	Connector Type RK02FL		
	_	•			•	_	•	
			\$\frac{1}{2}\$					
H.S.	7	E.S.	22 23	Ħ	456/18	H.S.		
Terminal Color Of Signal Name [Specification]	Termi	erminal Color Of	Of Signal Name [Specification]	Terminal Color Of	Signal Name [Specification]	Terminal Color Of S	Signal Name [Specification]	
+	-	$^{+}$	CARL	+		+		
2 W/R	2	-	CAN-H	2		2 B		
	9	O/L	RR TIRE PRESSURE RECEIVER SIGNAL	3				
	4	٦	RL TIRE PRESSURE RECEIVER SIGNAL	4	SB .			
Connector No. M92	5	R/L	FR TIRE PRESSURE RECEIVER SIGNAL	5	. 0	Connector No. M125		
Connector Name OPTION CONNECTOR (1)	9		\vdash	9	r.w.	Connector Name CAN GATEWAY	FWAY	
	7	SB	┪	7				
Connector Type TH08MW-NH	80			89	re -	Connector Type TH12FW-NH	-NH	
	ტ	R/W	FR TIRE PRESSURE RECEIVER POWER SUPPLY					
	10	. LG	FL TIRE PRESSURE RECEIVER POWER SUPPLY					
	15	GR	\dashv	Connector No.	lo. M105		<u> </u>	
1 2 3	19	L/R	RR TIRE PRESSURE RECEIVER SIGNAL (SENSITIVITY)	Connector Name	INSIDE KEY ANTENNA (INSTRIMENT CENTER)		1 3 4 5 6	
	20	۵.	RL TIRE PRESSURE RECEIVER SIGNAL (SENSITIVITY)	000		٧ <u>-</u>	7 0 10 11 10	
0	21	\dashv	\dashv	Connector 1	Connector Type RK02FL		31	
	22	\dashv	\dashv					
	23	\dashv	\dashv		<			
ī	24	+	+	•	\langle	nal Color Of	Signal Name [Specification]	
No. wire	22	+	4	•		No. Wire		
1 ×	26	BR/W	FL TIRE PRESS	Ĭ		1 L	CAN-H	
2 GR -	32	В	GND)	3 У	BATTERY	
3 W/R						4 L	CAN-H	
9 J/V 9						5 B	GND	
8 B				al	lor Of Signal Nama [Specification]	7 9	CAN⁺H	
				o N	Wire Ugual rame [Specification]	7 P	CAN-L	
				1	BR .	9 GR	IGNITION	
				2	Υ .	10 R	CAN-L	
						11 B	GND	
						12 R	JANE	

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Corrector No. R12 Corrector Name VANITY/MRSCRIAMP (DRIVER SDE) Corrector Type MCAUZE/W	H.S.	Terminal Color Of Signal Name [Specification] No. Wire 1 B	
R4 SUNROOF MOTOR ASSEMBLY YEA10FGY	- 0 - 0 - 0 - 0	Signal Name (Specification) GND GND GND GND GND GND GND GN	
Connector No. Connector Name Connector Type	H.S.	Terminal Color Of Cornector No. Wire No. Wire No. No.	
Corrector No. M210 Corrector Name AV CONTROL UNIT Corrector Type THS2FWJMH	H.S.	Note	
BCM (BODY CONTROL MODULE) Connector No. M141 Connector Name DIODE Connector Type 24335_03800	H.S.	Terminal Color Of Signal Name [Specification] Ware Ware	

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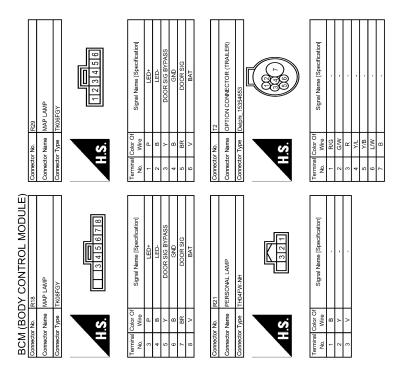
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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

BASIC INSPECTION

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description

INFOID:0000000009010767

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BEFORE REPLACEMENT

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

NOTE:

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

AFTER REPLACEMENT

CAUTION:

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

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

NOTE:

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

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

1. SAVING VEHICLE SPECIFICATION

©CONSULT Configuration

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>BCS-80, "CONFIGURATION (BCM)</u>: Description".

NOTE:

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

>> GO TO 2.

2.REPLACE BCM

Replace BCM. Refer to BCS-95, "Removal and Installation".

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

©CONSULT Configuration

Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to <u>BCS-80</u>, "CONFIGURATION (BCM): Work Procedure".

BCS-79

>> GO TO 4.

4.INITIALIZE BCM (NATS) (IF EQUIPPED)

Perform BCM initialization. (NATS)

>> WORK END

CONFIGURATION (BCM)

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

CONFIGURATION (BCM): Description

INFOID:0000000009010769

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

Function	Description
READ CONFIGURATION	Reads the vehicle configuration of current BCM.Saves the read vehicle configuration.
WRITE CONFIGURATION - Manual selection	Writes the vehicle configuration with manual selection.
WRITE CONFIGURATION - Config file	Writes the vehicle configuration with saved data.

NOTE:

Manual setting item: Items which need selection by vehicle specifications

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

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

CAUTION:

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

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

CONFIGURATION (BCM): Work Procedure

INFOID:0000000009010770

1. WRITING MODE SELECTION

(P)CONSULT Configuration

Select "CONFIGURATION" of BCM.

When writing saved data>>GO TO 2. When writing manually>>GO TO 3.

2.PERFORM "WRITE CONFIGURATION - CONFIG FILE"

(P)CONSULT Configuration

Perform "WRITE CONFIGURATION - Config file".

>> WORK END

${f 3.}$ PERFORM "WRITE CONFIGURATION - MANUAL SELECTION"

©CONSULT Configuration

- 1. Select "WRITE CONFIGURATION Manual selection".
- 2. Identify the correct model and configuration list. Refer to <u>BCS-81, "CONFIGURATION (BCM) : Configuration list".</u>
- 3. Confirm and/or change setting value for each item.

CAUTION:

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

NOTE:

If items are not displayed, touch "SETTING". Refer to <u>BCS-81, "CONFIGURATION (BCM): Configuration list"</u> for written items and setting value.

4. Select "SETTING".

CAUTION:

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

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

>> GO TO 4.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> WORK END

CONFIGURATION (BCM): Configuration list

INFOID:0000000009010771

CAUTION:

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

S	SETTING ITEM	NOTE
Items	Setting value	NOTE
UNLOCK WITH SHOCK	WITHOUT	_
CAN CONNECTION UNIT	MODE1 ⇔ MODE18	MODE1: Without telematics system MODE18: With telematics system
RAIN SENSOR CONFIG	WITH	_
A/LIGHT LOGIC	MODE2 ⇔ MODE4	MODE2: For Canada MODE4: Except for Canada

 $[\]Leftrightarrow : Items \ which \ confirm \ vehicle \ specifications$

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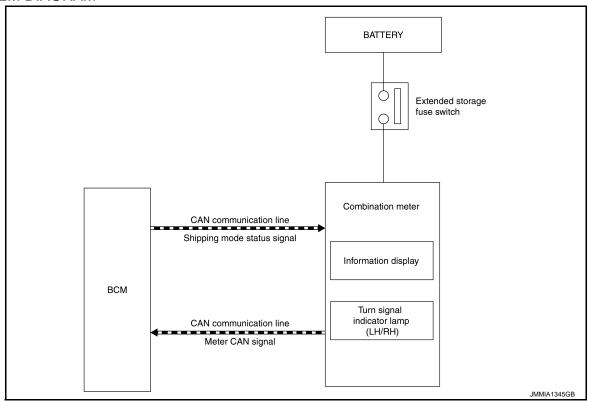
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SHIPPING MODE CANCEL OPERATION

Description INFOID:000000009298780

SYSTEM DIAGRAM



DESCRIPTION

- The combination meter transmits meter CAN signal*1 to BCM via CAN communication, when the extended storage fuse switch is ON.
- BCM switches the status (shipping mode or normal mode) by itself according to the meter CAN signal*1 from combination meter, and transmits shipping mode status signal to combination meter via CAN communication.
- The combination meter displays extended storage fuse warning message*2 on the information display, and turns the turn signal indicator lamp (LH/RH) ON, when BCM is in shipping mode.
- BCM control function is limited in shipping mode. Refer to BCS-94, "Description".
- *1: Odometer signal, wake up signal and each signal.
- *2: When shipping mode function operates, "SHIPPING MODE ON PUSH STORAGE FUSE" is displayed.

Work Procedure

1. SHIPPING MODE CANCEL OPERATION

- 1. Turn ignition switch OFF.
- 2. Push in (switch on) the extended storage fuse switch. Refer to PG-117, "How To Check".
- 3. Turn ignition switch ON.
- 4. Turn ignition switch OFF and wait at least 2 seconds.

>> GO TO 2.

2. SHIPPING MODE CANCEL CHECK

- 1. Turn ignition switch ON.
- 2. Check that extended storage fuse warning message is not displayed on information display.

>> WORK END

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM

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

CAN Communication Signal Chart. Refer to <u>LAN-32</u>, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible cause
U1000	CAN COMM	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

Diagnosis Procedure

1.PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000" displayed?

YES >> Refer to LAN-22, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-43, "Intermittent Incident".

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U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	BCM detected internal CAN communication circuit malfunction.	BCM

Diagnosis Procedure

INFOID:0000000009010778

1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to BCS-95, "Removal and Installation".

U0415 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

U0415 VEHICLE SPEED

Description INFOID:0000000009010779

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

DTC Logic INFOID:00000000009010780

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.DTC CONFIRMATION

- Erase the DTC.
- Turn ignition switch OFF.
- Perform the "Self Diagnostic Result" of BCM with CONSULT, when passed 2 seconds or more after the ignition switch is turned ON.

Is any DTC detected?

YES >> Refer to BCS-85, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF-DIAG RESULTS

Perform "Self-Diagnostic Result" of ABS actuator and electric unit (control unit) with CONSULT. Refer to BRC-39, "CONSULT Function".

Is any DTC detected?

YES >> Repair or replace the malfunctioning part.

NO >> Replace BCM. Refer to BCS-95, "Removal and Installation".

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BCS-85 Revision: 2013 September 2014 QX80

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B2562 LOW VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

B2562 LOW VOLTAGE

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC Detection Condition	Possible cause
B2562	LOW VOLTAGE	When the power supply voltage to BCM remains less than 8.8 V for 120 seconds or more	Harness or connector (power supply circuit)

DTC CONFIRMATION PROCEDURE

1.DTC CONFIRMATION

- 1. Erase DTC.
- 2. Turn ignition switch OFF.
- Perform the "Self Diagnostic Result" of BCM with CONSULT, when passed 120 seconds or more after the ignition switch is turned ON.

Is any DTC detected?

YES >> Refer to BCS-86, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009010783

1. CHECK POWER SUPPLY CIRCUIT

Check BCM power supply circuit. Refer to BCS-88, "Diagnosis Procedure".

Is the circuit normal?

YES >> Replace BCM. Refer to BCS-95, "Removal and Installation".

NO >> Repair the malfunctioning part.

B26E7 TPMS CAN COMM

< DTC/CIRCUIT DIAGNOSIS >

B26E7 TPMS CAN COMM

DTC Logic INFOID:0000000009010784

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Probable cause	
B26E7	TPMS CAN COMM	When ignition switch is ON, BCM cannot received CAN communication signal from low tire pressure warning control unit.	CAN communication system Low tire pressure warning control unit BCM	C

DTC CONFIRMATION PROCEDURE

1.DTC CONFIRMATION

- 1. Erase the DTC.
- Turn ignition switch OFF.
- Perform the "Self Diagnostic Result" of BCM with CONSULT, when passed 2 seconds or more after the ignition switch is turned ON.

Is any DTC detected?

YES >> Refer to BCS-87, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

NOTE:

If DTC "B26E7" detected along with DTC "U1000", first diagnose the DTC "U1000". Refer to BCS-83, "Diagnosis Procedure".

${f 1}$.LOW TIRE PRESSURE WARNING CONTROL UNIT SELF DIAGNOSTIC RESULT

Perform "Self Diagnostic Result" of low tire pressure warning control unit with CONSULT. Refer to WT-12, "CONSULT Function".

Is any DTC detected?

YES >> GO TO 2.

NO >> GO TO 4.

2.LOW TIRE PRESSURE WARNING CONTROL UNIT DIAGNOSIS

Perform low tire pressure warning control unit component diagnosis of detected DTC. Refer to WT-18, "DTC Index".

>> GO TO 3.

3.BCM SELF DIAGNOSTIC RESULT

Erase DTC of BCM, and perform "Self Diagnostic Result" again.

Is DTC "B26E7" detected?

YES >> Replace BCM. Refer to BCS-95, "Removal and Installation".

NO >> INSPECTION END

f 4.REPLACE LOW TIRE PRESSURE WARNING CONTROL UNIT TEMPORARILY

Remove low tire pressure warning control unit, and install normal low tire pressure warning control unit.

>> GO TO 5.

5.BCM SELF-DIAGNOSTIC RESULT

Erase DTC of BCM, and perform "Self Diagnostic Result" of BCM again.

Is DTC "B26E7" detected?

>> Replace BCM. Refer to BCS-95, "Removal and Installation". YES

>> Replace low tire pressure warning control unit. Refer to WT-64, "Removal and Installation". NO

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000009010786

1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.
Rattery power supply	К
Battery power supply	10

Is the fuse fusing?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

1	Terminals							
(+)	(-)	Voltage (Approx.)					
В	СМ							
Connector	Terminal	Ground						
M70	70	Glound	Battery voltage					
IVI7O	57		Dattery Voltage					

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M70	67		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

1. CHECK OUTPUT 1 - 5 CIRCUIT FOR OPEN

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

System	ВС	CM	Combinat	Continuity		
System	Connector	Terminal	Connector	Terminal	Continuity	
OUTPUT 1		36		11		
OUTPUT 2		35		9		
OUTPUT 3	M68	34 M27		7	Existed	
OUTPUT 4		33		10		
OUTPUT 5		32		13		

Does continuity exist?

YES >> GO TO 2.

NO >> Repair harnesses or connectors.

2.CHECK OUTPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

System	В	CM		Continuity	
System	Connector	Terminal		Continuity	
OUTPUT 1		36			
OUTPUT 2		35	Ground		
OUTPUT 3	M68	34		Not existed	
OUTPUT 4		33			
OUTPUT 5		32			

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> GO TO 3.

3.CHECK BCM OUTPUT VOLTAGE

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

		Terminals		
System	(-	+)	(-)	Voltage
System	ВС	CM		(Approx.)
	Connector	Terminal		
OUTPUT 1		36		
OUTPUT 2		35	0	(V) 15
OUTPUT 3		34	Ground	10 5
OUTPUT 4	M68	33		0
OUTPUT 5		32		7.0 - 8.0 V

Is the measurement value normal?

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COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace combination switch.

NO >> Replace BCM. Refer to BCS-95, "Removal and Installation".

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

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1. CHECK INPUT 1 - 5 CIRCUIT FOR OPEN

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

System	ВС	M	Combinat	Continuity		
System	Connector	Terminal	Connector	Terminal	Continuity	
INPUT 1		6		12		
INPUT 2		5		14		
INPUT 3	M68	4	M27	5	Existed	
INPUT 4		3		2	ĺ	
INPUT 5		2		8		

Does continuity exist?

YES >> GO TO 2.

NO >> Repair harnesses or connectors.

2.CHECK INPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

System	В	CM		Continuity
System	Connector	Terminal		Continuity
INPUT 1		6		
INPUT 2		5	Ground	
INPUT 3	M68	4		Not existed
INPUT 4		3		
INPUT 5		2		

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> GO TO 3.

3. CHECK BCM INPUT SIGNAL

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

System	(+	-)	(-)	Voltage
System	BC	M		(Approx.)
	Connector	Terminal		
INPUT 1		6		
INPUT 2		5	Ground	Refer to BCS-
INPUT 3	M68	4		35, "Refer-
INPUT 4		3		ence Value".
INPUT 5		2		

Is the measurement value normal?

Yes >> Replace BCM. Refer to BCS-95, "Removal and Installation".

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COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

No >> Replace combination switch.

COMBINATION SWITCH SYSTEM SYMPTOMS

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Malfunction item: ×

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SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table

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

							Data	monito	r item								
FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	RR WIPER ON	RR WIPER INT	RR WASHER SW	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	Malfunc- tion com- bination
	×	×						×	×								А
×			×									×		×			В
						×	×				×		×				С
					×		×			×					×		D
				×			×									×	E
×					×		×										F
		×		×		×	×										G
	×		×												×		Н
									×				×	×		×	I
								×		×	×	×					J

3. Identify the malfunctioning part from the agreed combination and repair or replace the part.

All Items

If only one item is detected or the item is not applicable to the combinations A to K

Malfunction combination	Malfunctioning part	Repair or replace
А	Combination switch OUTPUT 1 circuit	
В	Combination switch OUTPUT 2 circuit	
С	Combination switch OUTPUT 3 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to BCS-89, "Diagnosis Procedure".
D	Combination switch OUTPUT 4 circuit	ing parts (Color to <u>200 cc) Bragnoole (1000dare</u> .
Е	Combination switch OUTPUT 5 circuit	
F	Combination switch INPUT 1 circuit	
G	Combination switch INPUT 2 circuit	
Н	Combination switch INPUT 3 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-91, "Diagnosis Procedure".
I	Combination switch INPUT 4 circuit	
J	Combination switch INPUT 5 circuit	
K	BCM	Replace BCM. Refer to BCS-95, "Removal and Installation".
L	Combination switch	Replace combination switch.

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NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

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 functions are limited in shipping mode. The limited items that are not operated during the shipping mode are as follows.
- Door lock and unlock switch function
- Remote keyless entry function
- Theft warning alarm function
- Lighting & turn signal switch function
- Interior room lamp timer control function
- For shipping mode cancel operation, refer to BCS-82, "Description".

NOTE:

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

REMOVAL AND INSTALLATION

BCM

Removal and Installation

CAUTION:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-80, "CONFIGURATION (BCM): Description".

REMOVAL

- 1. Remove combination meter. Refer to MWI-87, "Removal and Installation".
- 2. Remove bolts.
- 3. Remove BCM and disconnect the connectors.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Be sure to perform "WRITE CONFIGURATION" when replacing BCM.
- Be sure to perform the system initialization (IVIS) when replacing BCM. Refer to <u>BCS-80, "CONFIGU-RATION (BCM): Work Procedure"</u>.

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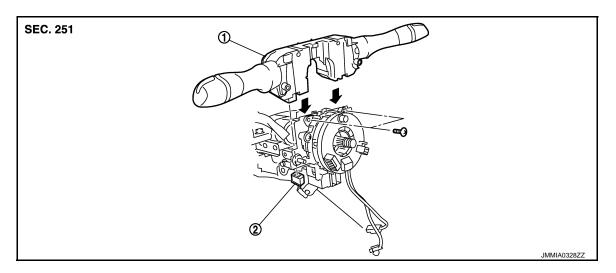
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COMBINATION SWITCH

Exploded View



- 1. Combination switch
- 2. Combination switch connector

Removal and Installation

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REMOVAL

- 1. Remove steering column cover. Refer to IP-13, "Exploded View".
- 2. Remove screws.
- 3. Disconnect the connector.
- 4. Pull up the combination switch to remove it.

INSTALLATION

Install in the reverse order of removal.