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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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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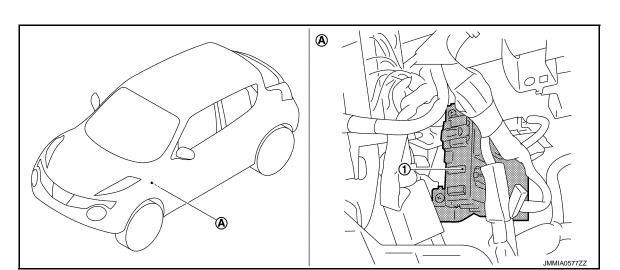
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SYSTEM DESCRIPTION

COMPONENT PARTS BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: Component Parts Location



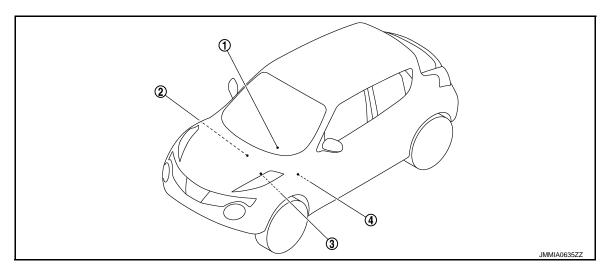
- 1. BCM
- A. Behind of instrument lower panel LH (Left side)

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM: Component Parts Location

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- 1. Combination meter
- Multi display unit
 Refer to DMS-3, "Component Parts
 Location".
- IPDM E/R
 Refer to PCS-5, "Component Parts
 Location".

4. BCM
Refer to BCS-6, "BODY CONTROL
SYSTEM: Component Parts Location".

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-9, "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-8, "AUTO LIGHT SYSTEM : System Diagram"	
Turn signal and hazard warning lamp sy	rstem	EXL-12, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Diagram"	
Headlamp system		EXL-7, "HEADLAMP SYSTEM : System Diagram"	
Parking, license plate, side maker and to	ail lamps system	EXL-13, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Diagram"	
Front fog lamp system		EXL-11, "FRONT FOG LAMP SYSTEM : System Diagram"	
Exterior lamp battery saver system		EXL-14, "EXTERIOR LAMP BATTERY SAVER SYSTEM : System Diagram"	
Daytime running light system		EXL-10, "DAYTIME RUNNING LIGHT SYSTEM : System Diagram"	
Interior room lamp control system		INL-6, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram"	
Interior room lamp battery saver system		INL-8, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM: System Diagram"	
Illumination control system		INL-9, "ILLUMINATION CONTROL SYSTEM: System Diagram"	
Front wiper and washer system		WW-6, "FRONT WIPER AND WASHER SYSTEM : System Diagram"	
Rear wiper and washer system		WW-9, "REAR WIPER AND WASHER SYSTEM : System Diagram"	
Warning chime system		WCS-6, "WARNING CHIME SYSTEM : System Diagram"	
Power door lock system		DLK-13, "System Diagram"	
Nissan Vehicle Immobilizer System (NVIS) - NATS		SEC-15, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS : System Diagram"	
Vahiala aggurity ayatam	Theft warning alarm	SEC-18, "VEHICLE SECURITY SYSTEM : System Diagram"	
Vehicle security system	Panic alarm	OLO-10, VEHICLE SECONTI (STOTEM : System Diagram	
Rear window defogger system		DEF-6, "WITH AUTO A/C : System Diagram" (With automatic A/C) DEF-6, "WITHOUT AUTO A/C : System Diagram" (Without automatic A/C)	
Intelligent Key system/engine start system		DLK-15, "INTELLIGENT KEY SYSTEM : System Diagram"	

System Reference		Reference	
Back door opener system		DLK-26, "System Diagram"	
Automatic A/C		HAC-11, "System Diagram"	
Air conditioning control system	Manual A/C	HAC-99, "System Diagram"	
Power window system		PWC-8, "POWER WINDOW SYSTEM: System Diagram"	
Retained accessory power (Retain power operation)		PWC-8, "POWER WINDOW SYSTEM : System Description"	
Tire pressure monitoring system (TPMS)		WT-8. "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 $ON \rightarrow OFF$
B2196: DONGLE NG	Inhibit engine cranking	Erase DTC
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)
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 system	When room antenna and luggage room antenna functions normally

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

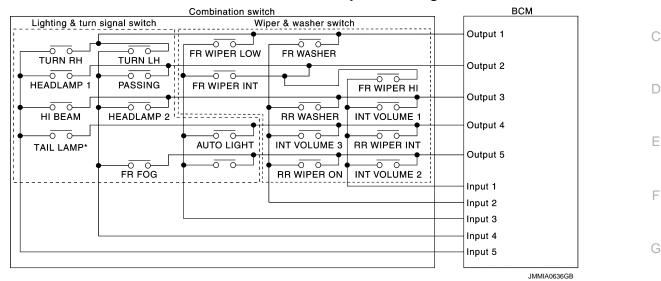
If voltage of battery power supply lower, BCM maintains combination switch reading to the status when input voltage is less than approximately 9 V.

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



NOTE:

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

COMBINATION SWITCH READING SYSTEM: System Description

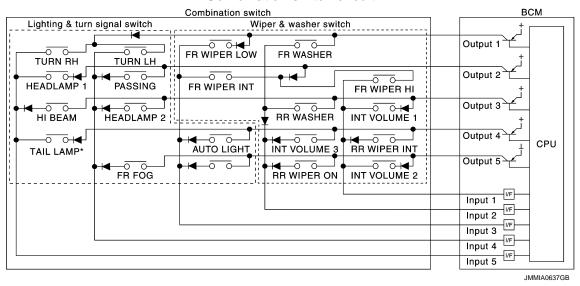
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OUTLINE

- 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

Combination switch circuit



NOTE:

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

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

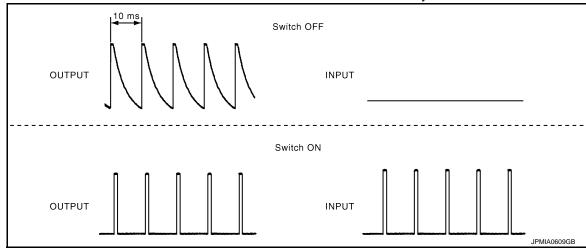
NOTE:

Headlamp has a dual system switch.

COMBINATION SWITCH READING FUNCTION

Description

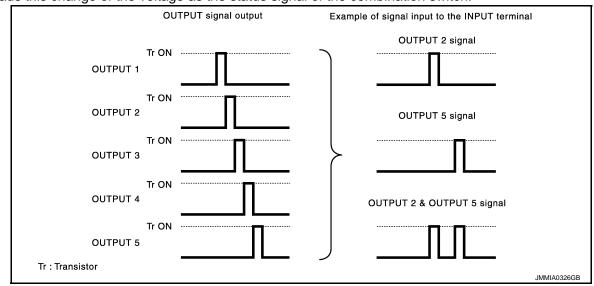
BCM reads the status of the combination switch at 10 ms interval normally.



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.
- 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.

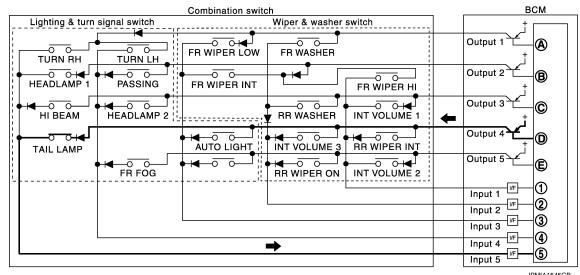


Operation Example

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

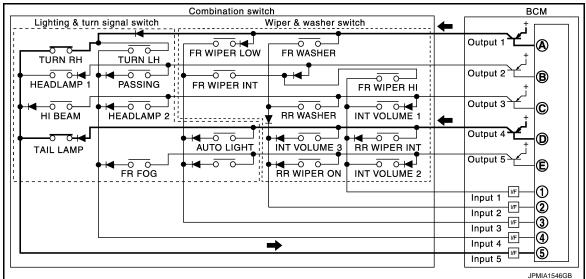
The circuit between OUTPUT 4 and INPUT 5 is formed when the TAIL LAMP switch is turned ON.



- 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

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



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

WIPER INTERMITTENT DIAL POSITION

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

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

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

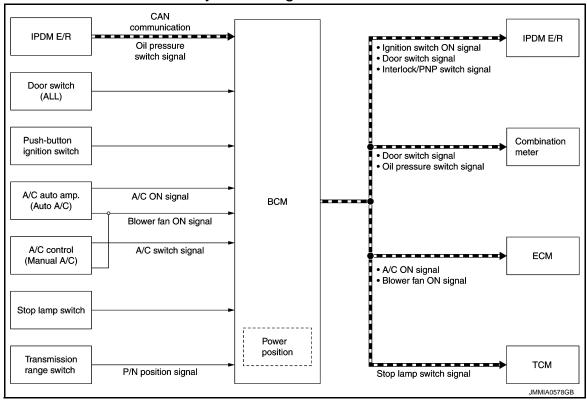
NOTE:

For details of wiper intermittent dial position, refer to WW-6, "FRONT WIPER AND WASHER SYSTEM: System Description".

SIGNAL BUFFER SYSTEM

SIGNAL BUFFER SYSTEM: System Diagram

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NOTE:

If vehicle models is gasoline engine models, oil pressure switch is not applied.

SIGNAL BUFFER SYSTEM: System Description

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OUTLINE

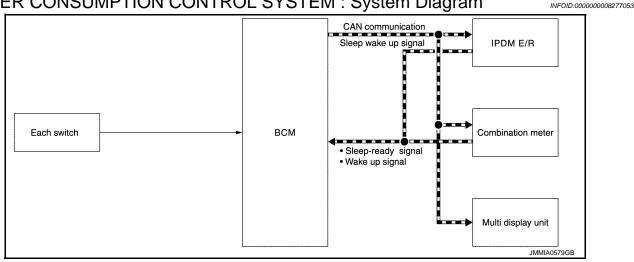
BCM has the signal transmission function that outputs/transmits each input/received signal to each unit. Signal transmission function list

Signal name	Input	Output	Description
Ignition switch ON signal	Push-button ignition switch (Push switch)	IPDM E/R (CAN)	Inputs the push-button ignition switch (push switch) signal and transmits the ignition switch status judged with BCM via CAN communication.
Door switch signal	Any door switch	Combination meter (CAN) IPDM E/R (CAN)	Inputs the door switch signal and transmits it via CAN communication.
Blower fan ON signal	A/C auto amp. (Auto A/C) A/C control (Manual A/C)	ECM (CAN)	Input blower fan switch signal, and transmit the blower fan ON signal via CAN communication.

Signal name Input		Output	Description	
A/C ON signal	 A/C auto amp. (Auto A/C) A/C control (Manual A/C) 	ECM (CAN)	Input A/C ON signal (automatic A/C) or A/C switch signal (manual A/C), and transmit the A/C ON 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.	
Interlock/PNP switch signal	Transmission range switch	IPDM E/R (CAN)	Inputs the P/N position signal, and transmits the interlock/PNP switch signal via CAN communication.	

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM: System Diagram



POWER CONSUMPTION CONTROL SYSTEM: System Description

OUTLINE

- BCM incorporates a power saving control function that reduces the power consumption according to the
- 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 and multi display unit) that operates with the ignition switch OFF.

Normal mode (wake-up)

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

CAN communication sleep mode (CAN sleep)

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

Low power consumption mode (BCM sleep)

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

LOW POWER CONSUMPTION CONTROL WITH BCM

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

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

Sleep mode activation

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< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- BCM receives the sleep-ready signal (ready) from IPDM E/R and combination meter via CAN communication
- BCM transmits the sleep wake up signal (sleep) to each unit when all of the CAN sleep conditions are fulfilled.
- Each unit stops the transmission of CAN communication with the sleep 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 I minute after turning ignition switch OFF Theft warning alarm and panic alarm: 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	Interior room lamp battery saver: Time out* RAP system: No communication Nissan Vehicle Immobilizer System (NVIS) - NATS: Not operation Remote keyless entry receiver communication status: No communication Tire pressure monitoring system (TPMS): Stop ACC/ON indicator lamp: Not operation

NOTE:

*: Refer to <u>INL-8</u>, "<u>INTERIOR ROOM LAMP BATTERY SAVER SYSTEM</u>: <u>System Description</u>" for details of the interior room lamp battery saver time.

Wake-up operation

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

SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

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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.
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

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

NOTE

FREEZE FRAME DATA (FFD)

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

^{*:} For models with automatic A/C, this diagnosis mode is not used.

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power position is "LOCK"*.)	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power position is "OFF".)	
	LOCK>ACC		While turning power position from "LOCK"* *to "ACC"	
	ACC>ON		While turning power position from "ACC" to "IGN"	
	RUN>ACC		While turning power position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)	
	CRANK>RUN	Power position status of the moment a particular DTC is detected	While turning power position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
Vehicle Condition	RUN>URGENT		While turning power position from "RUN" to "ACC" (Emergency stop operation)	
	ACC>OFF		While turning power position from "ACC" to "OFF"	
	OFF>LOCK		While turning power position from "OFF" to "LOCK"*	
	OFF>ACC		While turning power position from "OFF" to "ACC"	
	ON>CRANK		While turning power position from "IGN" to "CRANKING"	
	OFF>SLEEP		While turning BCM status from normal mode (Power position is "OFF".) to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode (Power position is "LOCK"*.) to low power consumption mode	
	LOCK		Power position is "LOCK"*	
	OFF		Power position is "OFF" (Ignition switch OFF)	
	ACC		Power position is "ACC" (Ignition switch ACC)	
	ON		Power position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power position is "RUN" (Ignition switch ON with engine running)	
	CRANKING		Power 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. 		

NOTE:

*: Power position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models and CVT models), and any of the following conditions are met.

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

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

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

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Monitor item	Description
DOOR LOCK-UNLOCK SET	Anti-hijack 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 24km/h (15MPH) • 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 the 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 monitored MODE 6: This item is displayed, but cannot be monitored
AUTOMATIC LOCK/UNLOCK SET	Automatic door lock/unlock function mode can be selected from the following in this mode Off: Non-operational Unlock Only: Door unlock operation only Lock Only: Door lock operation only Lock/Unlock: Lock and unlock operation

^{*:} P range interlock door lock can be selected for M/T models, but automatic door lock/unlock function does not operate.

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
KEY CYL UN-SW	Indicated [On/Off] condition of unlock signal from door key cylinder

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 door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT screen is touched The 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

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

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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	
REAR DEF SW	Displays "Press (ON)/other (OFF)" status determined with the rear window defogger switch.	
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:0000000008880065

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

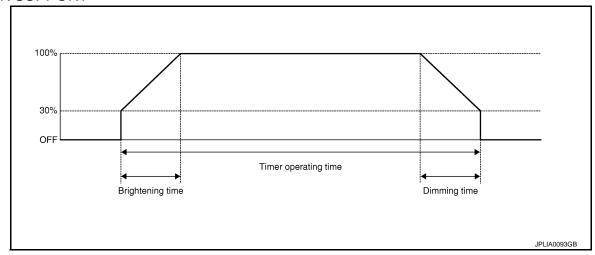
Display item [Unit]	Description
SEAT BELT WARN TEST	The seat belt warning chime operation can be checked by operating the relevant function (On/Off).
KEY REMINDER WARN	The key warning chime operation can be checked by operating the relevant function (On/Off).
LIGHT WARN ALM	The light warning chime operation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

INT LAMP

INT LAMP: CONSULT Function (BCM - INT LAMP)

INFOID:0000000008880059

WORK SUPPORT



Service item	Setting item		Setting	
	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.		
SET I/L D-UNLCK INTCON	On*	With the i	With the interior room lamp timer function	
SET I/L D-UNLER INTCOM	Off	Without th	ne interior room lamp timer function	
	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.	
	MODE 4	3 sec.		
	MODE 5	0 sec.		
	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.	
	MODE 4	3 sec.		
	MODE 5	0 sec.		
	MODE 1*	Interior room lamp timer activates with synchronizing all doors.		
R LAMP TIMER LOGIC SET	MODE 2	Interior ro only.	om lamp timer activates with synchronizing the driver door	

^{*:} 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)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor item [Unit]	Description		
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		
TRNK/HAT MNTR [On/Off]	NOTE: This item is displayed, but cannot be monitored		
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder		
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder		
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key		
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key		

ACTIVE TEST

Test item	Operation	Description	
INT LAMP	On	Outputs the interior room lamp control signal.	
INT LAWP	Off	Stops the interior room lamp control signal.	
STEP LAMP TEST	On	NOTE: This item is indicated, but can not tested	
STEF LAWIF TEST	Off		

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEAD LAMP)

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Service item	Setting item	Setting			
	MODE 1*2	Normal			
CUSTOM A/LIGHT SET- TING* ¹	MODE 2	More sensitive setting than normal setting (Turns ON earlier than normal operation)			
TING	MODE 3	More sensitive setting than MODE 2 (Turns ON earlier than MODE 2)			
	MODE 4	Less sensitive setting than normal setting (Turns ON later than normal operation)			
BATTERY SAVER SET	On* ²	With the exte	With the exterior lamp battery saver function		
BATTERY ONVERCET	Off	Without the e	exterior lamp battery saver function		
	MODE 1*2	45 sec.			
	MODE 2	Without the function			
	MODE 3	30 sec.			
ILL DELAY SET*1	MODE 4	60 sec.	Sets delay timer function timer operation time (All doors closed)		
	MODE 5	90 sec.	(/iii doors closed)		
	MODE 6	120 sec.			
	MODE 7	150 sec.			
	MODE 8	180 sec.			
HEAD LIGHT TIMER	MODE 1	10 sec.	Sets follow me home function activating time		
HEAD LIGHT TIMER	MODE 2*2	30 sec.	Sets follow the nome function activating time		
	MODE 1*2	With twilight ON custom & with wiper INT, LO and HI			
	MODE 2	With twilight ON custom & with wiper LO and HI			
AUTO LIGHT LOGIC SET*1	MODE 3	With twilight ON custom & without			
AUTO LIGHT LOGIC SET	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:} For models without auto light system, this item is displayed, but cannot be used.

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]

^{*2:} Factory setting

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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]	
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 [On/Off/NG]	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)	The value of outside brightness voltage filtered by BCM

^{*:} For models without front fog lamp, this item is displayed, but cannot be monitored.

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

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< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Test item	Operation	Description
FR FOG LAMP* ¹	On	 Transmits the front fog lights request signal to IPDM E/R via CAN communication to turn the front fog lamp ON*3 Transmits the daytime running light request signal to IPDM E/R via CAN communication to turn the daytime running light ON*4
	Off	 Stops the front fog light request signal transmission*³ Stops the daytime running light request signal transmission*⁴
DAYTIME RUNNING LIGHT*2	On	Transmits the daytime running light request signal via CAN communication to IPDM E/R
	Off	Stop the daytime running light request signal transmission
ILL DIM SIGNAL	On	NOTE:
ILL DIW SIGNAL	Off	This item is indicated, but can not tested

^{*1:} Except for NISMO models without front fog lamp, this item is displayed, but cannot be tested.

WIPER

WIPER: CONSULT Function - WIPER

INFOID:0000000008880061

WORK SUPPORT

Service item	Setting item	Description
WIPER SPEED SETTING	On	With vehicle speed (Front wiper intermittent time linked with the vehicle speed and wiper intermittent dial position)
OLITINO .	Off*	Without vehicle speed (Front wiper intermittent time linked with the wiper intermittent dial position)

^{*:}Factory setting

DATA MONITOR

NOTE:

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

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

^{*2:} For NISMO models with daytime running light system, this item is displayed, but cannot be tested.

^{*3:} Except for NISMO models with daytime running light system.

^{*4:} For NISMO models with daytime running light system.

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[WITH INTELLIGENT KEY SYSTEM]

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: The item is indicated, but not monitored

ACTIVE TEST

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

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

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	
	Lock&Unlk*	With locking/unlocking	when the door is lock/unlock with the request switch or the Intelligent Key.	
	Off	Without the function		

^{*:} Factory setting

DATA MONITOR

NOTE:

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

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch

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[WITH INTELLIGENT KEY SYSTEM]

Monitor item [Unit]	Description
TURN SIGNAL R [On/Off]	Each switch status that BCM detects from the combination switch reading function
TURN SIGNAL L [On/Off]	
HAZARD SW [On/Off]	The switch status input from the hazard switch
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-PANIC [On/Off]	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

AIR CONDITIONER

AIR CONDITIONER : CONSULT Function (BCM - AIR CONDITIONER) (Automatic A/C)

DATA MONITOR

Display Item List

NOTE:

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

Monitor Iten	n [Unit]	Contents
FAN ON SIG	[On/Off]	Displays the blower fan status as jugged from the A/C auto amp.
AIR COND SW	[On/Off]	Displays [COMP (On)/COMP (Off)] status as judged from the A/C auto amp.

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000008880050

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	NOTE: This item is displayed, but cannot be monitored	

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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Monitor item	Description	
IORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or operate (OFF) with this mode On: Operate Off: Non-operation	
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode • MODE 1: 0.5 sec • MODE 2: Non-operation • MODE 3: 1.5 sec	
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be monitored	
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	
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	

SELF-DIAG RESULT

Refer to BCS-59, "DTC Index".

DATA MONITOR

NOTE:

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

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

Monitor Item	Condition		
PUSH SW	Indicates [On/Off] condition of push-button ignition switch		
CLUTCH SW*1	Indicates [On/Off] condition of clutch interlock switch		
BRAKE SW 1	Indicates [On/Off]*2 condition of stop lamp switch power supply		
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch		
DETE/CANCL SW	Indicates [On/Off] condition of P position		
SFT PN/N SW	Indicates [On/Off] condition of P or N position		
UNLK SEN -DR	Indicates [On/Off] condition of driver door UNLOCK status		
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch		
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1		
DETE SW -IPDM	Indicates [On/Off] condition of P position		
SFT PN -IPDM	Indicates [On/Off] condition of P or N position		
SFT P -MET	Indicates [On/Off] condition of P position		
SFT N -MET	Indicates [On/Off] condition of N position		
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states		
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 driver side door status		
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		
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		

^{*1:} It is displayed but does not operate on CVT models.

ACTIVE TEST

 $^{^{\}star2}$: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

Test item	Description			
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 BP N: Engine start operation indicator lamp indicate when CONSULT screen is touched BP I: Engine start operation indicator lamp indicate when CONSULT screen is touched ID NG: This item is displayed, but cannot be monitored ROTAT: This item is displayed, but cannot be monitored SFT P: Shift P warning lamp indicate when CONSULT screen is touched INSRT: This item is displayed, but cannot be monitored BATT: Key warning lamp indicator when CONSULT screen is touched NO KY: Key warning lamp indicator when CONSULT screen is touched OUTKEY: Engine start operation indicator lamp indicate when CONSULT screen is touched LK WN: Engine start operation indicator lamp indicate when 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			
HORN	This test is able to check horn operation The horn is activated after "ON" on CONSULT screen is touched			
P RANGE	This test is able to check CVT shift selector power supply On: Operate Off: Non-operation			
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation Push-ignition switch illumination illuminates when "ON" on CONSULT screen is touched			
PUSH SWITCH INDICATOR	This test is able to check LOCK indicator in push-ignition switch operation LOCK indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched			
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT screen is touched.			
TRUNK/BACK DOOR	This test is able to check back door opener actuator open operation. This actuator opens when "Open" on CONSULT screen is touched.			

COMB SW

COMB SW: CONSULT Function (BCM - COMB SW)

INFOID:0000000008277065

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.

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< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

BCM

BCM: CONSULT Function (BCM - BCM)

INFOID:0000000008277066

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:0000000008880052

WORK SUPPORT

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

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 igni-		
CONFIRM ID2	tion switch.		
CONFIRM ID1			

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor item	Content	
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 ibs 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 is touched.

BATTERY SAVER

BATTERY SAVER: CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000008880060

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WORK SUPPORT

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.	. unc.
BATTERY SAVER SET	On*	With the exterior lamp battery saver function	
BATTERT GAVER GET	Off	Without th	ne exterior lamp battery saver function
ROOM LAMP BAT SAV SET	On*	With the interior room lamp battery saver function	
	Off	Without th	ne interior room 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)

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

ACTIVE TEST

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

TRUNK

TRUNK: CONSULT Function (BCM - TRUNK)

INFOID:0000000008880051

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:0000000008880053

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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.		

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 is displayed even when it is not equipped.		
REQ SW -RL	NOTE: This is displayed even when it is not equipped.		
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.		
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/unlock switch.		
KEY CYL LK-SW	Indicates [ON/OFF] condition of lock signal from door key cylinder.		
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.		
TRNK/HAT MNTR	NOTE: This is displayed even when it is not equipped.		
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 is displayed even when it is not equipped.		

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	his test is able to check horns operation. lorns are 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

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

RETAIND PWR: CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000008880054

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:0000000008277072

DATA MONITOR

NOTE:

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

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

ACTIVE TEST

Test item	Opera- tion	Description
OIL PRESSURE SW	Off	NOTE:
	On	This item is indicated, but not tested.

AIR PRESSURE MONITOR

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

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description		
Self Diagnostic Result	Displays the diagnosis results judged by BCM.		
Data Monitor	The BCM input/output signals are displayed.		
Active Test	The signals used to activate each device are forcibly supplied from BCM.		
Work Support	Components can be quickly and accurately adjusted.		

SELF DIAGNOSTIC RESULT

Refer to BCS-59, "DTC Index".

DATA MONITOR MODE

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)	Remarks	
AIR PRESS FL (kPa, kg/cm2 or Psi)		
AIR PRESS FR (kPa, kg/cm2 or Psi)	Tire pressure	
AIR PRESS RR (kPa, kg/cm2 or Psi)		
AIR PRESS RL (kPa, kg/cm2 or Psi)		
ID REGST FL1 (Yet, Done)		
ID REGST FR1 (Yet, Done)	Decistration ID	
ID REGST RR1 (Yet, Done)	Registration ID	
ID REGST RL1 (Yet, Done)		
WARNING LAMP (On/Off)	Low tire pressure warning lamp	
BUZZER (On/Off)	NOTE: This item is displayed, but cannot be use this item.	

ACTIVE TEST MODE

NOTE:

After completing the work below, perform an active test.

- Check ID registration state and perform self-diagnosis.
- Erase the self-diagnosis result history.

Item	Description	
WARNING LAMP	Low tire pressure warning lamp can be turned ON arbitrarily.	
ID REGIST WARNING	NOTE: Displayed but not used in TPMS.	K
RUN FLAT TIRE W/L	NOTE: Displayed but not used in TPMS.	
RUN FLAT/T WARN BUZZER	NOTE: Displayed but not used in TPMS.	L
FLASHER	Turn signal lamps can be turned ON arbitrarily.	
HORN	This test is able to check to check that the horn sounds.	BCS
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WORK SUPPORT

Item	Description
ID READ	Registered tire pressure sensor ID can be displayed.
ID REGIST	Tire pressure sensor ID can be registered.

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ECU DIAGNOSIS INFORMATION

BCM

Reference Value

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
ED WACHED CW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
RR WIPER ON	Rear wiper switch ON	On
DD WIDED INT	Other than rear wiper switch INT	Off
RR WIPER INT	Rear wiper switch INT	On
DD WACHED OW	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
DD WIDED CTOD	Rear wiper is in STOP position	Off
RR WIPER STOP	Rear wiper is not in STOP position	On
TUDNI CIONAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TURN SIGNAL L	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
TAIL LAWIP SW	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
HI BEAIN SW	Lighting switch HI	On
HEAD LAMD CW/4	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DARRING RW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIGHT SW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On

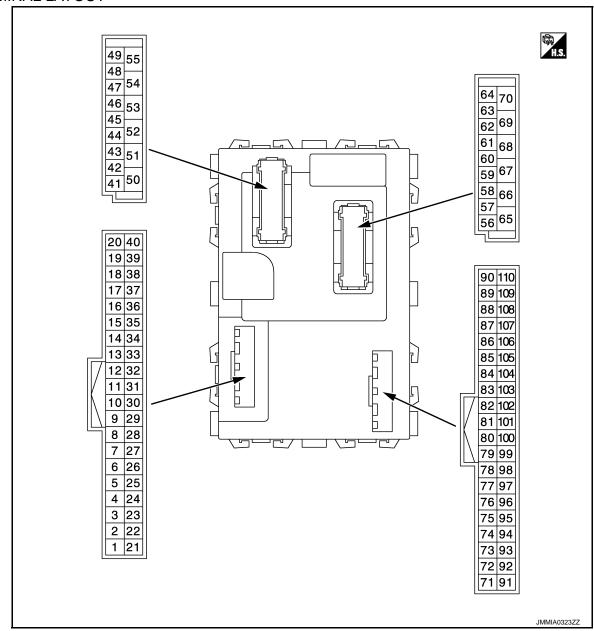
Monitor Item	Condition	Value/Status
FR FOG SW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
DOOR SW-DR	Driver door closed	Off
DOOK SW-DK	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOD CW DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DOOD CW DV	Back door closed	Off
DOOR SW-BK	Back door opened	On
CDL I OCK CW	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 1 K 0VV	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
(/E)/ ()//	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
114.74.DD 014/	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
TD/DD 0.DEN 0.W	Back door opener switch OFF	Off
TR/BD OPEN SW	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
EAN ON CIO	Blower fan OFF	Off
FAN ON SIG	Blower fan ON	On
AID COND OW	Air conditioner OFF (A/C switch indicator OFF)	Off
AIR COND SW	Air conditioner ON (A/C switch indicator ON)	On
DIVE I COV	LOCK button of the key is not pressed	Off
RKE-LOCK	LOCK button of the key is pressed	On
DIVE LINII OOK	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
DKE DANIC	PANIC button of the key is not pressed	Off
RKE-PANIC	PANIC button of the key is pressed	On
DIVE MODE OUG	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
RKE-MODE CHG	LOCK/UNLOCK button of the key is pressed and held simultaneously	On
ODTI CEN (DTOT)	Bright outside of the vehicle	Close to 5 V
OPTI SEN (DTCT)	Dark outside of the vehicle	Close to 0 V

Monitor Item		Condition	Value/Status	
ODTI SEN (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 no	t monitored.	Off	
RAIN SENSOR	NOTE: The item is indicated, but no	t monitored.	Off	
REQ SW -DR	Driver door request switch is	iside of the vehicle (Lighting switch AUTO) ide of the vehicle (Lighting switch AUTO) is indicated, but not monitored. is indicated, but not monitored. or request switch is not pressed or request switch is pressed or door request switch is pressed or indicated, but not monitored. is indicated, but not monitored. request switch is not pressed or request switch is pressed on ignition switch (push switch) is not pressed on ignition switch (push switch) is pressed on ignition switch (push switch) is pressed on pedal is not depressed or pedal is depressed or pedal is depressed or pedal is depressed or pedal is not depressed when No. 38 fuse is blown or pedal is depressed when No. 38 fuse is blown or pedal is not depressed when No. 38 fuse is blown or pedal is not depressed when No. 38 fuse is blown or lever in P position Release selector button Push selector button ever in any position other than P and N (CVT models) lever in any position other than P and N (CVT models) lever in neutral position (M/T models) lever in P or N position (CVT models) lever in neutral position (M/T models) is indicated, but not monitored. or is locked or is unlocked on ignition switch (push-switch) is not pressed witch in OFF or ACC position	Off	
	Driver door request switch is	pressed	On	
REQ SW -AS	,	,	Off	
	Passenger door request swit	tch is pressed	On	
REQ SW -RR	NOTE: The item is indicated, but no	t monitored.	Off	
REQ SW -RL	NOTE: The item is indicated, but no	t monitored.	Off	
REQ SW -BD/TR	Back door request switch is	not pressed	Off	
	Back door request switch is	pressed	On	
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off	
1 0011 000	Push-button ignition switch (push switch) is pressed	On	
CLUCH SW	The clutch pedal is not depre	essed.	Off	
OLOGIT SVV	The clutch pedal is depresse	ed	On	
DDAVE CW 1	The brake pedal is not depre	ed, but not monitored. ed, but not monitored. ed, but not monitored. switch is not pressed switch is pressed switch (push switch) is not pressed so not depressed. so depressed depressed depressed depressed Release selector button Push selector button Push selector button Push position other than P any position other than P and N (CVT models) any position (CVT models) ped, but not monitored. ed, but not monitored.	Off	
BRAKE SW 1	The brake pedal is depresse	ed	On	
	The brake pedal is depresse	he brake pedal is depressed when No. 38 fuse is blown		
BRAKE SW 2	The brake pedal is not depre fuse is normal	the brake pedal is not depressed when No. 38 fuse is blown, or No. 38 use is normal		
DETE/CANCL SW	Calantan lavania Danaitian	Release selector button	Off	
NOTE: For M/T models this item is not	Selector lever in P position	Push selector button	0	
used.	Selector lever in any position	n other than P	On	
			Off	
SFT PN/N SW	· ·	,	On	
S/L -LOCK	NOTE: The item is indicated, but no	t monitored.	Off	
S/L -UNLOCK	NOTE: The item is indicated, but no	t monitored.	Off	
S/L RELAY-F/B	NOTE: The item is indicated, but no	t monitored.	Off	
UNLK SEN -DR	Driver door is locked		Off	
O.,LIX OLIX DIX	Driver door is unlocked		On	
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off	
	Push-button ignition switch (push-switch) is pressed	On	
GN RLY1 -F/B	Ignition switch in OFF or AC	C position	Off	
ON INLI I -I /D	Ignition switch in ON position	n	On	
DETE SW -IPDM NOTE:	Selector lever in any position	n other than P Push selector button	Off	
For M/T models this item is not	Selector lever in P position			

Monitor Item	Condition	Value/Status
SFT PN -IPDM	Selector lever in any position other than P and N	Off
NOTE: For M/T models this item is not used.	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
NOTE: For M/T models this item is not used.	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
NOTE: For M/T models this item is not used.	Selector lever in N position	On
	Engine stopped	Stop
ENOINE OTATE	While the engine stalls	Stall
ENGINE STATE	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
DDMT ENG STDT	The engine start is prohibited	Reset
PRMT ENG STRT	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.	_
CONEDM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRM ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIDM ID 4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done

Monitor Item	Condition	Value/Status
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRMIDS	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONTINUIDZ	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONTINUED	The key ID that the key slot 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
NOT REGISTERED	BCM detects non-registration key ID.	ID NG
TP 4	The ID of fourth key is not registered to BCM	Yet
174	The ID of fourth key is registered to BCM	Done
TD 0	The ID of third key is not registered to BCM	Yet
TP 3	The ID of third key is registered to BCM	Done
TD 0	The ID of second key is not registered to BCM	Yet
TP 2	The ID of second key is registered to BCM	Done
TD 4	The ID of first key is not registered to BCM	Yet
TP 1	The ID of first key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID NEOST LI	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGI FRI	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGGI KKI	ID of rear RH tire transmitter is not registered	Yet
ID DECCT DI 4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
MADNING LAND	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

TERMINAL LAYOUT



PHYSICAL VALUES

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	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
			·		All switches OFF	0 V
					Turn signal switch RH	(V)
					Lighting switch HI	(V) 15 10
2 (L)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermit-	Lighting switch 1ST	10 V PKIB4958J 1.0 V
				tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0
					All switches OFF	0 V
					Turn signal switch LH	
					Lighting switch PASS	(V) 15
3	Ground	Combination switch	Input	Combination switch	Lighting switch 2ND	10 5 0 → +10ms PKIB4958J 1.0 V
(GR)	Oround	INPUT 4	mpat	(Wiper intermit-		1.5 V
				tent dial 4)	Front fog lamp switch ON	(V) 15 10 5 0 ++10ms PKIB4956J
						0.8 V
					All switches OFF	0 V
					Front wiper switch LO	(V)
				Combination	Front wiper switch MIST	(V) 15 10
4 (RP)	Ground	Combination switch	Input	switch	Front wiper switch INT	5
(BR)		INPUT 3		(Wiper intermit- tent dial 4)	Lighting switch AUTO	→ →10ms PKIB4958J
						1.0 V

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

	nal No. color)	Description			O a little a	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
7 (L)	Ground	Door key cylinder switch UNLOCK	Input	Door key cylinder switch	NEUTRAL position	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
					UNLOCK position	0 V
8 (R)	Ground	Door key cylinder switch LOCK	Input	Door key cylinder switch	NEUTRAL position	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
					LOCK position	0 V
9	Ground	Stop Jamp switch 1	Innut	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(R)	Ground	Stop lamp switch 1	Input	switch	ON (Brake pedal is depressed)	Battery voltage
10 ^{*1} (W)	_	_	_		_	_
12 (Y)	Ground	Door lock and unlock switch LOCK	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 0 10 ms JPMIA0012GB 1.0 - 1.5 V
				<u> </u>	LOCK position	0 V
13 (BR)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 0 10 ms JPMIA0012GB 1.0 - 1.5 V
					UNLOCK position	0 V
14	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P)	Ground	Opiicai sciisul	iliput	ON	When dark outside of the vehicle	Close to 0 V
17	Ground	Sensor power sup-	Output	Ignition switch	OFF, ACC	0 V
(R)		ply	- 2.74.	g	ON	5 V

Terminal No. Description (Wire color)				Condition	Value	А			
+	-	Signal name	Input/ Output		Condition	(Approx.)	_		
18 (V)	Ground	Receiver ground	Input	Ignition switch O	N	0 V	В		
21 (P)	Ground	NATS antenna amp.	Input/ Output	Intelligent Key: Intelligent Key battery is re- moved	Brake pedal: Depressed NOTE: Waveform varies each time when brake pedal is depressed	(V) 15 10 5 0 → -40ms JMKIA6232JP	C		
					Brake pedal: Not depressed	12 V	Е		
					ON	0 V	-		
23 (R)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking (Ignition switch OFF)	(V) ₁₅ 10 5 0 1s	F		
						055		JPMIA0590GB 12.0 V	H
*0			1		OFF	Battery voltage	-		
24 ^{*2} (SB)	Ground	Dongle link	Input/ Output	Ignition switch O	FF	5 V			
25 (LG)	Ground	NATS antenna amp.	Input/ Output	During waiting	Brake pedal: Depressed NOTE: Waveform varies each time when brake pedal is depressed	(V) 15 10 5 0 → -40ms JMKIA6233JP	J		
					Brake pedal: Not de- pressed	12 V	L		
27 (W)	Ground	A/C ON	Input	A/C	OFF (A/C switch indicator: OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB 1.0 - 1.5 V	BO		
					ON (A/C switch indicator: ON)	0 V			

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
28 (O)	Ground	Blower fan switch	Input	Fan switch	Blower fan switch OFF Blower fan switch ON	0 V (V) 15 10 5 0 PKIB4960J 7.0 - 8.0 V
29 (L)	Ground	Hazard switch	Input	Hazard switch	OFF ON	12 V 0 V
30 (L)	Ground	Back door opener switch	Input	Back door opener switch	Pressed Not pressed	0 V (V) 15 10 5 10 ms JPMIA0012GB 1.0 - 1.5 V
31 (GR)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF) UNLOCK status (Unlock	(V) 15 10 5 0 7.0 - 8.0 V
20		Combination switch		Combination	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
32 (LG)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4) Rear wiper switch ON (Wiper intermittent dial 4) Any of the condition below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 6 Wiper intermittent dial 7	(V) 15 10 5 0 PKIB4956J 1.0 V

[WITH INTELLIGENT KEY SYSTEM]

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 +
33 (Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	
. ,					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10
					Rear wiper switch INT (Wiper intermittent dial 4)	0
					Any of the condition below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	PKIB4958J 1.2 V
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
34 (V)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	
` '					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10
					Rear washer switch ON (Wiper intermittent dial 4)	0
					Any of the condition below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	++10ms PKIB4958J

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	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
35	Canada	Combination switch	Output	Combination switch	All switches OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
(R)	Ground	OUTPUT 2	Output	(Wiper intermit- tent dial 4)	Lighting switch 2ND	
				terit diai 4)	Lighting switch PASS	(V)
					Front wiper switch INT	10
					Front wiper switch HI	0
36		Combination switch		Combination switch	All switches OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
(P)	Ground	OUTPUT 1	Output	(Wiper intermit-	Turn signal switch RH	
				tent dial 4)	Turn signal switch LH	(V) 15
					Front wiper switch LO	10
					Front wiper switch MIST	0
					Front washer switch ON	PKIB4958J
67					P position (Release selector button)	0 V
37 (G)	Ground	Detention switch	Input	Selector lever	P position (Push selector button)	12 V
					Any position other than P	1

	nal No.	Description				Value	
(Wire	color)	Signal name Input/ Output			Condition	(Approx.)	
					Waiting	12 V	
				Ignition switch OFF (Remote keyless entry communication)	When operating either button on Intelligent Key	(V) 15 10 5 0	
						200 ms JMMIA0572GB	
38 (SB)	Ground	Receiver communication	Input/ Output		Waiting	(V) 15 10 5 0	
				Ignition switch ON (TPMS communication)		JMMIA0573GB	
			communication	When receiving signal from tire pressure sensor	(V) 15 10 5 0		
						JMMIA0574GB	
39 (L)	Ground	CAN-H	Input/ Output		_	_	
40 (P)	Ground	CAN-L	Input/ Output		_	_	
43 (P)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) 15 10 5 0 + 10ms PKIB4960J	
					ON	7.0 - 8.0 V 0 V	
					(When back door opened) Rear wiper stop position	0 V	
44 (LG)	Ground	Rear wiper stop position	Input	Ignition switch ON	Any position other than rear wiper stop position	12 V	
45 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) 15 10 5 0 + 10ms PKIB4960J	
					ON (When passenger door opened)	7.0 - 8.0 V 0 V	

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
46 (LG)	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 (SB)	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 (BR)	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 (L)	Ground	Luggage room lamp	Output	Luggage room lamp	OFF ON	12 V 0 V
51 (Y)	Ground	Back door request switch	Input	Back door request switch	ON (Pressed) OFF (Not pressed)	0 V 12 V
53		D. I. I.	0.1.1	Death lead	OFF (Actuator is not activated)	0 V
(GR)	Ground	Back door open	Output	Back door	OPEN (Actuator is activated)	12 V
54	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
(P)					ON (Activated)	12 V
55 (G)	Ground	Rear door UNLOCK	Output	Rear door	UNLOCK (Actuator is activated) Other then UNLOCK (Actuator is not activated)	12 V 0 V
					np battery saver is activated. room lamp power supply)	0 V
56 (LG)	Ground	Interior room lamp power supply	Output	Interior room lam	np battery saver is not acti-	12 V

	inal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
57 (L)	Ground	Battery power sup- ply	Input	Ignition switch Ol	FF	Battery voltage	
59	Ground	Passenger door UN-	Output	Passenger door	UNLOCK (Actuator is activated)	12 V	
(SB)	Ground	LOCK	Output	r asseriger door	Other then UNLOCK (Actuator is not activated)	0 V	
					Turn signal switch OFF	0 V	
60 (V)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 PKIC6370E 6.0 V	
					Turn signal switch OFF	0 V	
61 (W)	Ground	Turn signal RH	Output	put Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 PKIC6370E 6.0 V	
63		Interior room lamp	_	Interior room	OFF	12 V	
(BR)	Ground	control	Output	lamp	ON	0 V	
				Ignition switch OI	FF	3.6 V	
64 ^{*3}	Ground	Cranking request	innut	1	Engine stopped (Selector lever is in P position)	0 V	
(R)	Glound	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 LOCK	Output	All doors	LOCK (Actuator is activated)	12 V	
(V)	Ciodila	, iii doolo LOOK	Gaipai	All GOORS	Other then LOCK (Actuator is not activated)	0 V	
66	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	12 V	
(W)	Giodila	LOCK	Output	Dilver door	Other then UNLOCK (Actuator is not activated)	0 V	
67 (B)	Ground	Ground	Output	Ignition switch OI	N	0 V	
68 (L)	Ground	P/W power supply (IGN)	Output	Ignition switch OI	N	12 V	
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch Ol	FF	12 V	
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch OI	FF	Battery voltage	

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output	Condition		(Approx.)
75	Ground	Driver door request	Input	Driver door re-	ON (Pressed)	0 V
(LG)	Cround	switch	mpat	quest switch	OFF (Not pressed)	12 V
76	Ground	Push-button ignition	Innut	Push-button ig- nition switch	Pressed	0 V
(LG)	Ground	switch (push switch)	Input	(push switch)	Not pressed	12 V
78	Ground Driver door antenna Output door request switch is open	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 5 JMKIA5954GB		
(P)		(+)	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
79	Ground	Ground Driver door antenna (-)		When the driver door request switch is operat- ed with ignition switch ON	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
(V)			Output		When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	(V) 15 10 500 ms JMKIA5955GB

	nal No.	Description		2		Value	
+	color)	Signal name	Input/ Output		Condition	(Approx.)	A
80	Ground	Passenger door an-	Quitout	When the passenger door re-	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	
(LG)	Glound	tenna (+)	Output	quest switch is 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 0 500 ms	F
81		Passenger door an-		When the passenger door re-	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	 -
(Y)	Ground	tenna (-)	Output	quest 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	k L
82	Crownel	Rear bumper anten-	Outhout	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 10 500 ms JMKIA5954GB	BO
82 (W)	Ground	na (+) Output	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 0 500 ms JMKIA5955GB	F

	nal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
83	Ground	Rear bumper antenna (-)	Output	When the back door request switch is operat- ed with ignition switch ON	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
(LG)	Glound		Output		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 0 500 ms JMKIA5955GB
84	Ground	Room antenna 1 (+) (Instrument center)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB
(BR)	Ground				When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB
85	Ground	Room antenna 1 (-) (Instrument center)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 1 1 1 1 1 1 1 1 1
(GR)					When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB

Terminal No. Description (Wire color)		O - w aliali - w		Value			
+	color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 S S S S S S S S S	C
86 (G)	Ground	Room antenna 2 (+) (Console)	Output	Ignition switch ON	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB	E
		Room antenna 2 (–) (Console)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 S JMKIA5951GB	- -
87 (R)	Ground				When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB	K
		Luggage room antenna (+)		Output Ignition switch ON	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA5951GB	BC
88 (V)	Ground		Output		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB	F

	inal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
89	Crowd	Luggage room an-	Output	Ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB	
(LG)	Ground	tenna (-)	Output	ŎN	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB	
00		Push-button ignition		Push-button ig-	ON	12 V	
90 (W)	Ground	switch illumination power supply	Output	nition switch illu- mination	OFF	0 V	
91		ACC/ON indicator	•	lanition switch	OFF	Battery voltage	
(V)	Ground	lamp	Output	Ignition switch	ACC or ON	0 V	
					OFF	0 V	
92 (R)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 15 10 10 ms JPMIA1554GB 6.0 - 7.0 V	
93	Ground	Intelligent Key warn-	Output	Intelligent Key	Sounding	0 V	
(GR)	Ciound	ing buzzer	σαιραι	warning buzzer	Not sounding	12 V	
96	Ground	Accessory relay	Output	Ignition switch	OFF	0 V	
(BR)		control			ACC or ON	12 V	
		Starter relay control	Output	Ignition switch	When selector lever is in P or N position	12 V	
97 (SB)	Ground	(CVT models)	·	ON	When selector lever is not in P or N position	0 V	
(SD)		Starter relay control		Ignition switch	Clutch pedal is depressed	12 V	
		(M/T models)	Output	ON	Clutch pedal is not depressed	0 V	
98	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	12 V	
(P)	Cround	E/R) control	Jaipai	.gr.a.orr owntorr	ON	0 V	
99	Ground	Ignition relay (F/B)	Output	Ignition switch	OFF or ACC	0 V	
(R)		control	1	3	ON	12 V	

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Terminal No.		Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
100	Ground	Passenger door re-	Innut	Passenger door	ON (Pressed)	0 V
(P)	Ground	quest switch	Input	request switch	OFF (Not pressed)	12 V
		Clutch interlock	Input	Clutch interlock	OFF (Clutch pedal is not depressed)	0 V
101 (Y)	Ground	switch (M/T models)	iliput	switch	ON (Clutch pedal is depressed)	Battery voltage
(-)		Ignition power sup-			OFF	0 V
		ply No.2 (Except M/T models) Output	Ignition switch	ON	12 V	
		P/N position (Except M/T models)	Input	Selector lever	P or N position	12 V
					Except P and N positions	0 V
102 (L)	Ground	Neutral switch (M/T models)			Control lever NEUTRAL position	Battery voltage
			ON Control lever except NEU TRAL position		0 V	
104 (SB)	Ground	CVT shift selector (detention switch) power supply	Output	Ignition switch O	N	12 V
105 (V)	Ground	Stop lamp switch 2	Input	Ignition switch O	FF	Battery voltage
106	Ground	Blower relay control	Output	Ignition switch	OFF or ACC	0 V
(Y)	Giouria	Blower relay control	Output	igililori Switch	ON	12 V

^{*1:} This terminal is not used.

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 $ON \rightarrow OFF$
B2196: DONGLE NG	Inhibit engine cranking	Erase DTC
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)
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

^{*2:} For Canada

^{*3:} With CVT

Display contents of CONSULT	Fail-safe	Cancellation
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

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.
- 2. 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.

DTC Inspection Priority Chart

INFOID:0000000008277076

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM 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

Priority	DTC	
	B2555: STOP LAMP B2556: PUSH-BTN IGN SW	—— A
	 B2557: VEHICLE SPEED B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS 	В
	 B2603: SHIFT FOSISTATOS B2604: PNP/CLUTCH SW B2605: PNP/CLUTCH SW B2608: STARTER RELAY B260F: ENG STATE SIG LOST 	С
	 B2614: BCM B2615: BCM B2616: BCM B2618: BCM 	D
4	 B261A: PUSH-BTN IGN SW B261F: ASCD CNCL/CLTCH SW B2620: NEUTRAL SW B26E8: CLUTCH SW 	Е
	 B26F1: IGN RELAY OFF B26F2: IGN RELAY ON B26F3: START CONT RLY ON 	F
	 B26F4: START CONT RLY OFF B26F6: BCM B26F7: BCM B26F8: BCM 	G
	 B26F9: CRANK REQ CIR SHORT B26FA: CRANK REQ CIR OPEN B26FB: CLUTCH SWITCH B26FC: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED 	H
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL	J
5	 C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL 	K
	 C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL 	L
5	 B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA 	ВС
6	B2626: OUTSIDE ANTENNA B2627: OUTSIDE ANTENNA B2628: OUTSIDE ANTENNA	N

DTC Index

INFOID:0000000008277077

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NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-16, "COM-MON ITEM"</u>.

ECU DIAGNOSIS INFORIV	_	Freeze Frame			
CONSULT display	Fail-safe	Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-70
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-71
U0415: VEHICLE SPEED	_	_	×	_	BCS-72
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-43
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-44
B2195: ANTI-SCANNING	×	_	_	_	SEC-45
B2196: DONGLE NG	×	_	_	_	SEC-46
B2198: NATS ANTENNA AMP	×	_	_	_	SEC-48
B2555: STOP LAMP	_	×	×	_	SEC-51
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-53
B2557: VEHICLE SPEED	_	×	×	_	SEC-55
B2562: LOW VOLTAGE	_	×	_	_	BCS-73
B2601: SHIFT POSITION	_	×	×	_	SEC-56
B2602: SHIFT POSITION	_	×	×	_	SEC-58
B2603: SHIFT POSI STATUS	_	×	×	_	SEC-61
B2604: PNP/CLUTCH SW	_	×	×	_	SEC-65
B2605: PNP/CLUTCH SW	_	×	×	_	SEC-67
B2608: STARTER RELAY	×	×	×	_	SEC-68
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-70
B2614: BCM	_	×	×	_	PCS-81
B2615: BCM	_	×	×	_	PCS-84
B2616: BCM	_	×	×	_	PCS-86
B2618: BCM	_	×	×	_	PCS-88
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-89
B261F: ASCD CNCL/CLTCH SW	_	×	×	_	<u>SEC-73</u>
B2620: NEUTRAL SW	_	×	×	_	<u>SEC-75</u>
B2621: INSIDE ANTENNA	_	×		_	DLK-41
B2622: INSIDE ANTENNA	_	×	_	_	<u>DLK-43</u>
B2623: INSIDE ANTENNA	_	×	_	_	<u>DLK-45</u>
B2626: OUTSIDE ANTENNA	_	×	_	_	<u>DLK-49</u>
B2627: OUTSIDE ANTENNA	_	×		_	<u>DLK-47</u>
B2628: OUTSIDE ANTENNA	_	×	_	_	DLK-51
B26E8: CLUTCH W	_	×	×	_	<u>SEC-78</u>
B26F1: IGN RELAY OFF	×	×	×	_	PCS-91
B26F2: IGN RELAY ON	×	×	×	_	PCS-93
B26F3: START CONT RLY ON	×	×	×	<u> </u>	SEC-81
B26F4: START CONT RLY OFF	×	×	×	_	SEC-82
B26F6: BCM	_	×	×	_	PCS-95
B26F7: BCM	×	×	×	_	SEC-83

[WITH INTELLIGENT KEY SYSTEM]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	АВ
B26F8: BCM	_	×	×	_	SEC-84	
B26F9: CRANK REQ CIR SHORT	_	×	×	_	<u>SEC-85</u>	C
B26FA: CRANK REQ CIR OPEN	_	×	×	_	SEC-87	
B26FB: CLUTCH SWITCH	_	×	×	_	SEC-89	
B26FC: KEY REGISTRATION	_	×	×	_	SEC-90	D
C1704: LOW PRESSURE FL	_	_	_	×		
C1705: LOW PRESSURE FR	_	_	_	×	WT-23	Е
C1706: LOW PRESSURE RR	_	_	_	×	<u>VV 1-23</u>	_
C1707: LOW PRESSURE RL	_	_	_	×		
C1708: [NO DATA] FL	_	_	_	×		F
C1709: [NO DATA] FR	_	_	_	×	WT-25	
C1710: [NO DATA] RR	_	_	_	×	<u>W1-25</u>	
C1711: [NO DATA] RL	_	_	_	×		G
C1716: [PRESSDATA ERR] FL	_	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-28	Н
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>VV 1-20</u>	
C1719: [PRESSDATA ERR] RL	_	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-30</u>	-

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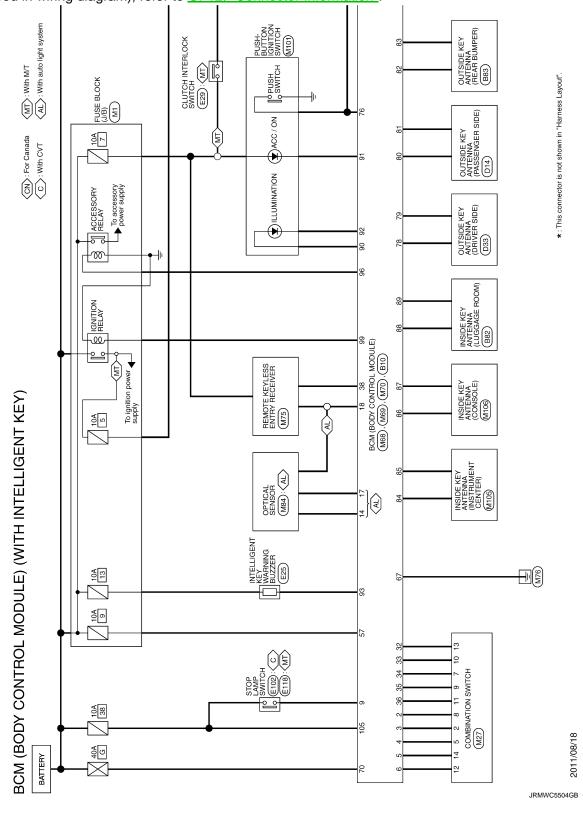
Ρ

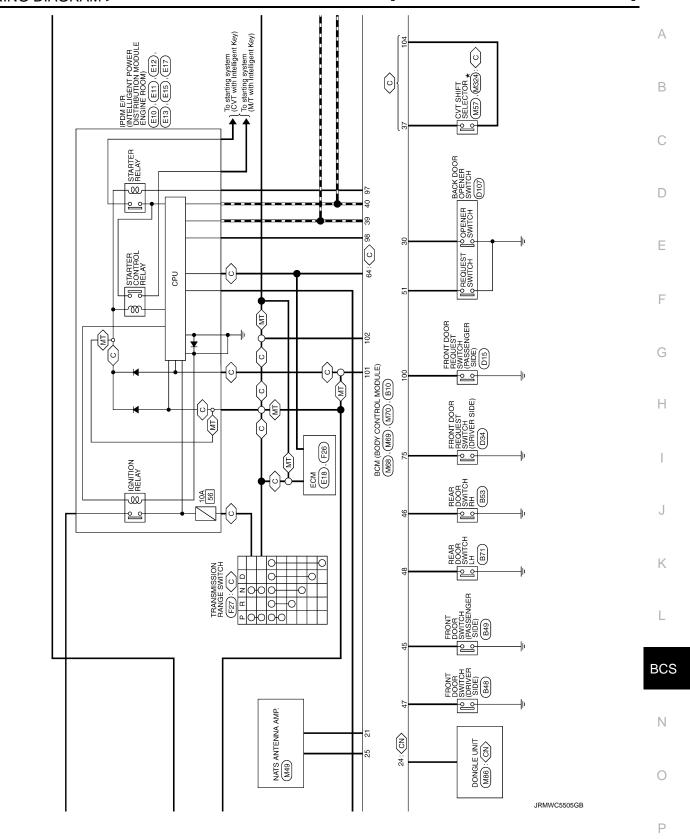
WIRING DIAGRAM

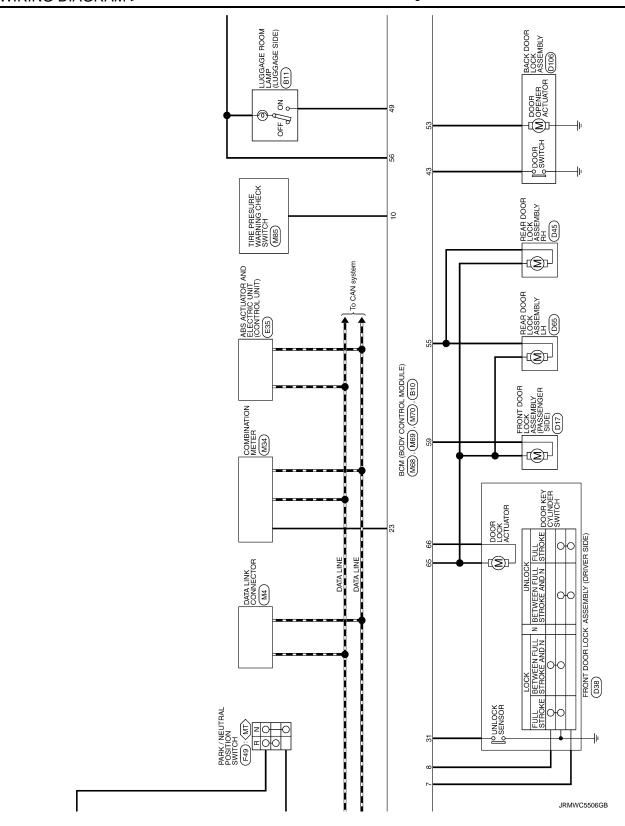
BCM

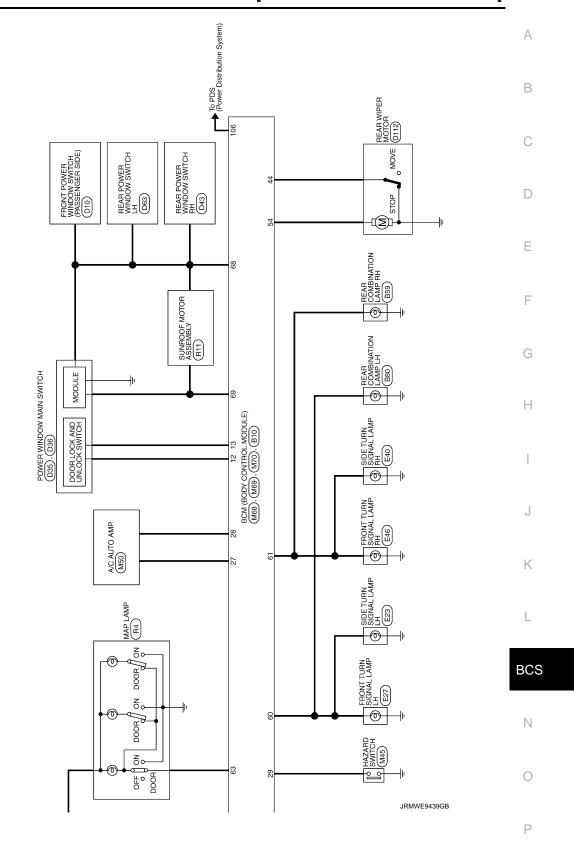
Wiring Diagram

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".









ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

BASIC INSPECTION

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

Description INFOID:000000008277079

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).

Work Procedure

1. SAVING VEHICLE SPECIFICATION

(P)CONSULT Configuration

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>BCS-67</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-81, "Removal and Installation".

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

(P)CONSULT Configuration

Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to BCS-67, "Work Procedure".

>> GO TO 4.

4. INITIALIZE BCM (NATS) (IF EQUIPPED)

Perform BCM initialization, (NATS)

>> WORK END

CONFIGURATION (BCM)

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

CONFIGURATION (BCM)

Description INFOID:000000008277081

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.

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1. WRITING MODE SELECTION

Work Procedure

©CONSULT Configuration Select "CONFIGURATION" of BCM.

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

2. PERFORM "WRITE CONFIGURATION - CONFIG FILE"

CONSULT Configuration

Perform "WRITE CONFIGURATION - Config file".

>> WORK END

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

CONSULT Configuration

- 1. Select "WRITE CONFIGURATION Manual selection".
- Identify the correct model and configuration list. Refer to BCS-68, "Configuration list".
- Confirm and/or change setting value for each item.

CAUTION:

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

NOTE:

If items are not displayed, touch "SETTING". Refer to <u>BCS-68, "Configuration list"</u> for written items and setting value.

4. Select "SETTING".

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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.

BCS-67

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

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CONFIGURATION (BCM)

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> WORK END

Configuration list

INFOID:0000000008277083

CAUTION:

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

FOR NISMO GRADE MODELS

SETTING ITEM		NOTE	
Items	Setting value	NOTE	
AUTO LIGHT	WITHOUT	_	
TRANSMISSION	AT with ABS ⇔ MT with ABS	AT with ABS: Except M/T models MT with ABS: M/T models	
DONGLE	WITH ⇔ WITHOUT	_	
TIRE PRESSURE	230kPa ⇔ 240kPa	230kPa: 2WD M/T models 240kPa: AWD models	

^{⇔:} Items which confirm vehicle specifications

EXCEPTFOR NISMO GRADE MODELS

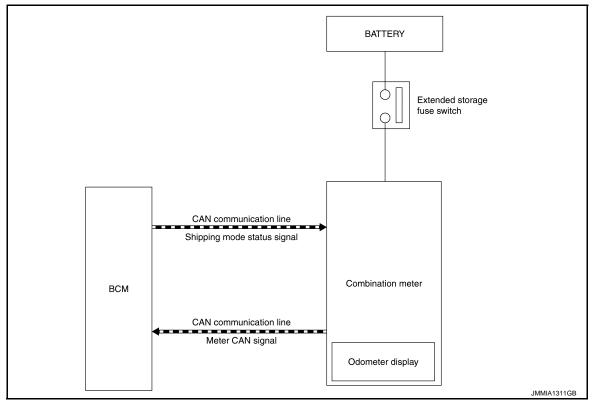
SETTING ITEM		NOTE
Items	Setting value	NOTE
AUTO LIGHT	WITH ⇔ WITHOUT	_
DTRL	WITH ⇔ WITHOUT	WITH: With daytime running light system WITHOUT: Without daytime running light system
TRANSMISSION	AT with ABS ⇔ MT with ABS	AT with ABS: Except M/T models MT with ABS: M/T models
TIRE PRESSURE	230kPa ⇔ 240kPa ⇔ 250kPa	230kPa: 2WD M/T models240kPa: AWD models250kPa: 2WD except M/T models

^{⇔:} Items which confirm vehicle specifications

SHIPPING MODE CANCEL OPERATION

Description INFOID:0000000008277084

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 odometer display, when BCM is in shipping mode.
- BCM control functions are limited in shipping mode. Refer to BCS-80, "Description".
- *1: Odometer signal, wake up signal and each signal.
- *2: When shipping mode function operates, "SHIP→PHASE→On→PUSH→FUSE In" is displayed.

Work Procedure INFOID:0000000008277085

1. SHIPPING MODE CANCEL OPERATION

- 1. Turn ignition switch OFF.
- 2. Push in (switch on) the extended storage fuse switch. Refer to PG-91, "How To Check".
- 3. Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 2 seconds.

>> GO TO 2.

2.SHIPPING MODE CANCEL CHECK

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

>> WORK END

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DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM

Description INFOID:000000008277086

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-28, "CAN COMMUNICATION SYSTEM: CAN Communication control units are control units."

tion Signal Chart".

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	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

INFOID:0000000008277088

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-15, "Trouble Diagnosis Flow Chart".

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

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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:0000000008277090

1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to BCS-81, "Removal and Installation".

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U0415 VEHICLE SPEED

[WITH INTELLIGENT KEY SYSTEM]

U0415 VEHICLE SPEED

Description INFOID:000000008277091

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

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	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

- 1. Erase the DTC.
- 2. 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-72, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008277093

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$1.\mathsf{abs}$ 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 <u>BRC-38</u>, "CONSULT Function" (without EPS), <u>BRC-38</u>, "CONSULT Function" (with EPS).

Is any DTC detected?

YES >> Repair or replace the malfunctioning part.

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

B2562 LOW VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2562 LOW VOLTAGE

DTC Logic INFOID:0000000008277094

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.
- Turn ignition switch OFF. 2.
- 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-73, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008277095

1. CHECK POWER SUPPLY CIRCUIT

Check BCM power supply circuit. Refer to BCS-74, "Diagnosis Procedure".

Is the circuit normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair the malfunctioning part.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000008277096

1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.
Battery power supply	G
Dattery power Supply	9

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.

	Terminals							
(+)	(-)	Voltage (Approx.)					
В	СМ		(Approx.)					
Connector	Terminal	Ground						
M69	70	Glound	Battery voltage					
WOS	57		Battery 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
M69	67		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000008277097

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1. CHECK OUTPUT 1 - 5 CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect BCM and combination switch connectors. 2.
- 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

- Connect BCM connector.
- 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		PKIB4960J 7.0 - 8.0 V

Is the measurement value normal?

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BCS

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> Replace combination switch.

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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		
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.

		Terminals	3		
Cuatam	(+	+)	(-)	Voltage	
System	ВС	CM		(Approx.)	
	Connector	Terminal			
INPUT 1		6			
INPUT 2		5	Ground	Refer to BCS-	
INPUT 3	M68	4		36, "Refer-	
INPUT 4		3		ence Value".	
INPUT 5		2			

Is the measurement value normal?

Yes >> Replace BCM. Refer to BCS-81, "Removal and Installation".

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COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

No >> Replace combination switch.

COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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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.

																Malfu	nction item: ×
							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
				×			×									×	Е
×					×		×										F
		×		×		×	×										G
	×		×												×		Н
									×				×	×		×	I
								×		×	×	×					J
					1	1	1	All Item	S				1		1	1	K
		ı	f only o	ne item	is dete	ected or	the ite	m is not	applica	able to	the com	nbinatio	ns A to	K			L

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

Malfunction combination	Malfunctioning part	Repair or replace			
Α	Combination switch 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 <u>BCS-75</u> , " <u>Diagnosis Procedure</u> ".			
D	Combination switch OUTPUT 4 circuit	ang para 1000 to <u>200 to Bagnesie Hessaure</u> .			
E	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 <u>BCS-77, "Diagnosis Procedure"</u> .			
I	Combination switch INPUT 4 circuit				
J	Combination switch INPUT 5 circuit				
K	BCM	Replace BCM. Refer to BCS-81, "Removal and Installation".			
L	Combination switch	Replace combination switch.			

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NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NORMAL OPERATING CONDITION

Description INFOID.000000008277100

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-69, "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

NOTE:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-67, "Description".

REMOVAL

- 1. Remove instrument lower panel. Refer to IP-12, "Removal and Installation".
- 2. Remove harness clip.
- 3. Remove BCM mounting screws.
- 4. Remove BCM and disconnect the connectors.
- 5. Remove relays and relay mounting bracket from BCM.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

NOTE:

Be sure to perform the system initialization (NATS) when replacing BCM. Refer to BCS-66. "Work Procedure".

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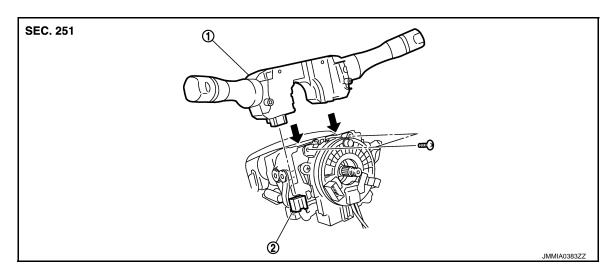
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COMBINATION SWITCH

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-12, "Removal and Installation".
- 2. Remove screws.
- 3. Disconnect the connector.
- 4. Pull up the combination switch to remove it.

INSTALLATION

Install in the reverse order of removal.

PRECAUTIONS

< PRECAUTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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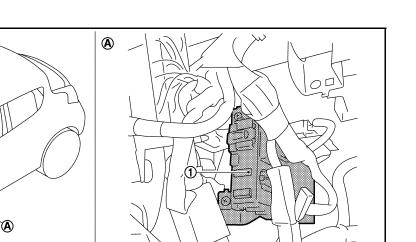
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SYSTEM DESCRIPTION

COMPONENT PARTS BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: Component Parts Location



- 1. BCM
- A. Behind of instrument lower panel LH (Left side)

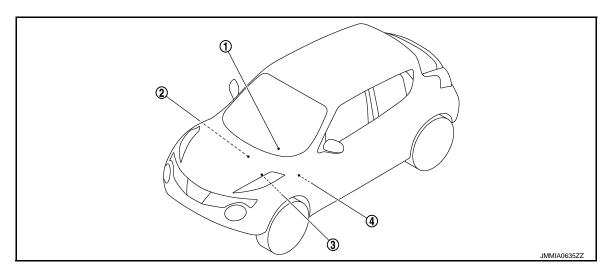
POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM: Component Parts Location

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- 1. Combination meter
- Multi display unit
 Refer to DMS-3, "Component Parts
 Location".
- . IPDM E/R Refer to PCS-38, "Component Parts Location".

4. BCM
Refer to BCS-84, "BODY CONTROL
SYSTEM: Component Parts Location".

SYSTEM BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: System Description

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OUTLINE

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

BCM FUNCTION LIST

System		Reference page		
Combination switch reading system		BCS-86, "COMBINATION SWITCH READING SYSTEM : System Diagram"		
Signal buffer system		BCS-90, "SIGNAL BUFFER SYSTEM : System Diagram"		
Power consumption control system		BCS-91, "POWER CONSUMPTION CONTROL SYSTEM : System Diagram"		
Headlamp system		EXL-7, "HEADLAMP SYSTEM : System Diagram"		
Daytime running light system		EXL-10, "DAYTIME RUNNING LIGHT SYSTEM : System Diagram"		
Front fog lamp system		EXL-11, "FRONT FOG LAMP SYSTEM : System Diagram"		
Turn signal and hazard warning lamp sys	stem	EXL-12, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Diagram"		
Parking, license plate, side maker and ta	il lamps system	EXL-13, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Diagram"		
Exterior lamp battery saver system		EXL-14, "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-8, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM: System Diagram"		
Illumination control system		INL-9, "ILLUMINATION CONTROL SYSTEM : System Diagram"		
Front wiper and washer system		WW-6, "FRONT WIPER AND WASHER SYSTEM : System Diagram"		
Rear wiper and washer system		WW-9, "REAR WIPER AND WASHER SYSTEM: System Diagram"		
Rear window defogger system		DEF-6, "WITHOUT AUTO A/C : System Diagram"		
Air conditioning control system (Manual A	VC)	HAC-99, "System Diagram"		
Warning chime system		WCS-6, "WARNING CHIME SYSTEM : System Diagram"		
Power door lock system		DLK-173, "System Diagram"		
Remote keyless entry system		DLK-175, "System Diagram"		
Back door opener system		DLK-177, "System Diagram"		
Nissan anti-theft system (NATS)		SEC-122, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS : System Diagram"		
Vehicle security system	Theft warning alarm	SEC-123, "VEHICLE SECURITY SYSTEM : System Diagram"		
verifice security system	Panic alarm	900-120, VERIOLE SECONTI I STOTENI . SYSTEMI DIAGRAMI		
Power window system		PWC-8, "POWER WINDOW SYSTEM : System Diagram"		

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System	Reference page		
Retained power operation [Retained accessory power (RAP)]	PWC-8, "POWER WINDOW SYSTEM : System Description"		
Tire pressure monitoring system (TPMS)	WT-8, "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
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch $ON \rightarrow OFF$
B2196: DONGLE NG	Inhibit engine cranking	Erase DTC

REAR WIPER MOTOR PROTECTION

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

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

Condition of cancellation

- Pass more than 1 minute after the rear wiper stop.
- 2. 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.

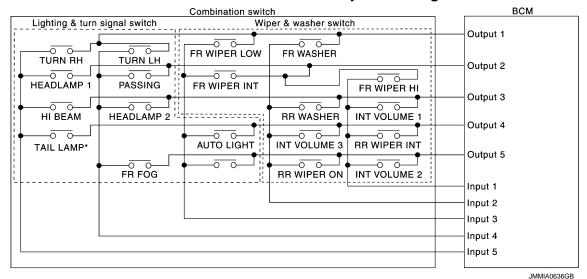
NOTE:

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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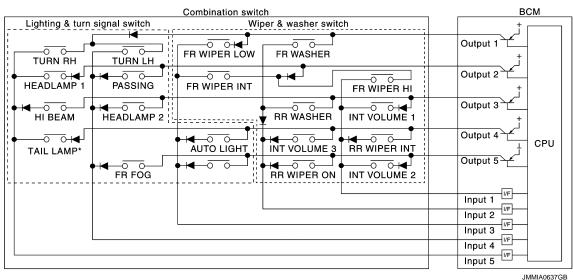
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OUTLINE

- 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

Combination switch circuit



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

NOTE:

Headlamp has a dual system switch.

COMBINATION SWITCH READING FUNCTION

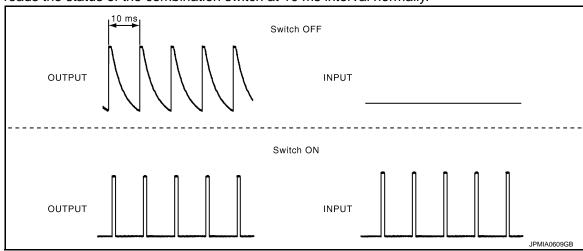
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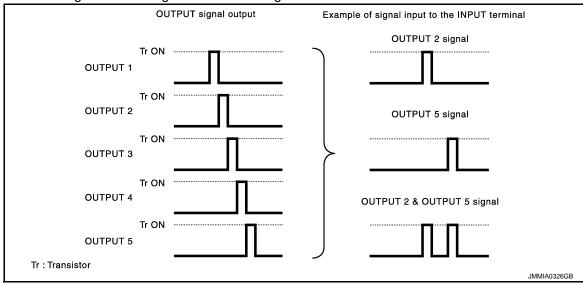
BCM reads the status of the combination switch at 10 ms interval normally.



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.
- 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.

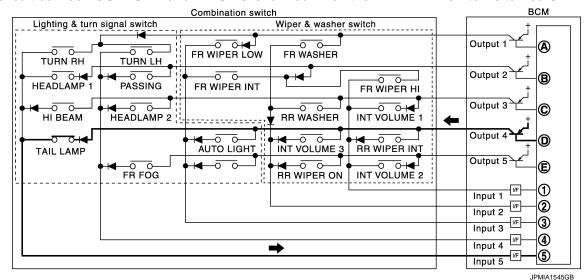


Operation Example

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

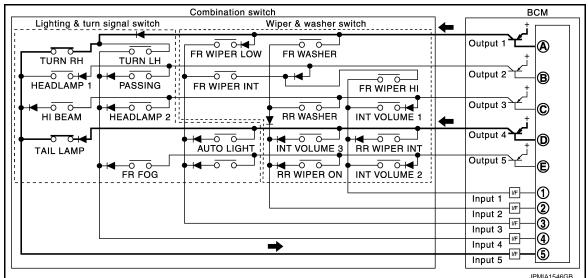
• The circuit between OUTPUT 4 and INPUT 5 is formed when the TAIL LAMP switch is turned ON.



- 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

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



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

WIPER INTERMITTENT DIAL POSITION

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

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

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

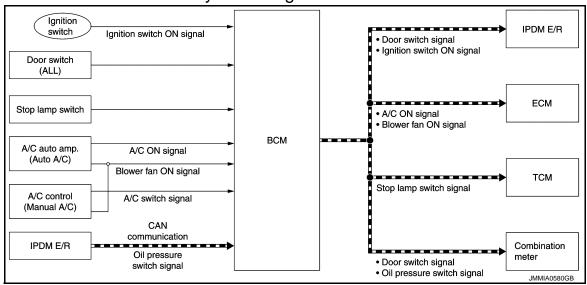
NOTE:

For details of wiper intermittent dial position, refer to WW-6, "FRONT WIPER AND WASHER SYSTEM: System Description".

SIGNAL BUFFER SYSTEM

SIGNAL BUFFER SYSTEM: System Diagram

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NOTE:

If vehicle models is gasoline engine models, oil pressure switch is not applied.

SIGNAL BUFFER SYSTEM: System Description

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OUTLINE

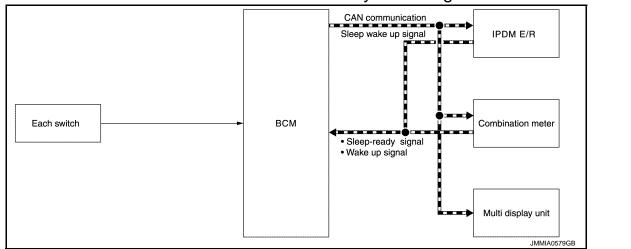
BCM has the signal transmission function that outputs/transmits each input/received signal to each unit.

SIGNAL TRANSMISSION FUNCTION LIST

Signal name	Input	Output	Description
Ignition switch ON signal	Ignition switch	IPDM E/R (CAN)	Inputs the ignition switch signal and transmits it with CAN communication.
Door switch signal	Any door switch	Combination meter (CAN) IPDM E/R (CAN)	Inputs the door switch signal and transmits it with CAN communication.
Blower fan ON signal	A/C control	ECM (CAN)	Input blower fan switch signal, and transmit the blower fan ON signal via CAN communication.
A/C ON signal	A/C control	ECM (CAN)	Input A/C switch signal, and transmit the A/C ON signal via CAN communication.
Stop lamp switch signal	Stop lamp switch	TCM (CAN)	Inputs the stop lamp switch signal, and transmits it via CAN communication.

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM : System Diagram



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 and multi control unit) that operates with the ignition switch OFF.

Normal mode (wake-up)

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

CAN communication sleep mode (CAN sleep)

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

Low power consumption mode (BCM sleep)

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

LOW POWER CONSUMPTION CONTROL WITH BCM

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

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

Sleep mode activation

- BCM receives the sleep-ready signal (ready) from IPDM E/R and combination meter via CAN communication.
- BCM transmits the sleep wake up signal (sleep) to each unit when all of the CAN sleep conditions are fulfilled.
- Each unit stops the transmission of CAN communication with the sleep 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.

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SYSTEM

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Sleep condition	
CAN sleep condition	BCM sleep condition
Receiving the sleep-ready signal (ready) from all units I minute after turning ignition switch OFF Theft warning alarm and panic alarm: Not operation Warning chime: 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 Door switch status: No change Key switch status: No change	Interior room lamp battery saver: Time out* RAP system: No communication Nissan anti-theft system (NATS): Not operation Remote keyless entry receiver communication status: No communication Tire pressure monitoring system (TPMS): Stop

NOTE:

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-ui) CON	dition

BCM wake-up condition	CAN wake-up condition
. Back door opener switch: OFF → ON	 Receiving the sleep-ready signal (Not-ready) from any units Ignition switch: OFF → ACC, ON Key switch: OFF → ON, ON → OFF 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, ON → OFF TURN RH: OFF → ON, ON → OFF TURN H: OFF → ON, ON → OFF 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 Stop lamp switch: ON Door lock and unlock switch: NEUTRAL → LOCK, NEUTRAL → UNLOCK Front door lock assembly (driver side) (unlock sensor): OFF → ON, ON → OFF Front door lock assembly (driver side) (door key cylinder switch) NEUTRAL → LOCK, NEUTRAL → UNLOCK Remote keyless entry receiver communication: Receiving

^{*:} Refer to INL-8, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM: System Description" for details of the interior room lamp battery saver time.

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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.	
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.

×: Applicable item

System	Sub system selection item	Diagnosis mode			
System	Sub system selection item	Work Support	Data Monitor	Active Test	
Door lock	DOOR LOCK	×	×	×	
Rear window defogger	REAR DEFOGGER		×	×	
Warning chime	BUZZER		×	×	
Interior room lamp control	INT LAMP	×	×	×	
Remote keyless entry system	MULTI REMOTE ENT	×	×	×	
Exterior lamp	HEAD LAMP	×	×	×	
Wiper and washer	WIPER	×	×	×	
Turn signal and hazard warning lamps	FLASHER		×	×	
Air conditioning system	AIR CONDITONER		×	×	
Combination switch	COMB SW		×		
Body control system	BCM	×			
NATS	IMMU	×		×	
Interior room lamp battery saver	BATTERY SAVER	×	×	×	
Back door open	TRUNK		×		
Theft warning alarm	THEFT ALM	×	×	×	
RAP system	RETAINED PWR		×	×	
Signal buffer system	SIGNAL BUFFER		×	×	
Panic alarm	PANIC ALARM			×	
TPMS	AIR PRESSUE MONITOR	×	×	×	

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

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WORK SUPPORT

Monitor item	Description			
DOOR LOCK-UNLOCK SET	Anti-hijack function can be changed to operate with this mode On: Operate Off: Non-operation			
AUTOMATIC DOOR LOCK SE- LECT	 Automatic door lock function can be selected from the following in this mode VH SPD: All doors are locked when vehicle speed more than 24km/h (15MPH) 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 can be selected from the following in the 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: Driver side door is unlocked when key out of key switch MODE 6: All doors are unlocked when key out of key switch 			
AUTOMATIC LOCK/UNLOCK SET	Automatic door lock/unlock function 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: Door lock and unlock operation			

^{*:} P range interlock door lock/unlock can be selected for M/T models, but automatic door lock/unlock function does not operate.

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			
IGN ON SW	Indicated [On/Off] condition of ignition switch in ON position			
KEY ON SW	Indicated [On/Off] condition of key 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			
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			
BACK DOOR SW	Indicated [On/Off] condition of back door switch			
LOCK STATUS	Indicated [On/Off] condition of front door driver side			
ACC ON SW	Indicated [On/Off] condition of ignition switch in ACC position			
KEYLESS LOCK	Indicated [On/Off] condition of lock signal from key fob			
KEYLESS UNLOCK	Indicated [On/Off] condition of unlock signal from key fob			
KEY CYL LK-SW	Indicated [On/Off] condition of lock signal from door key cylinder			
KEY CYL UN-SW	Indicated [On/Off] condition of unlock signal from door key cylinder			
VEHICLE SPEED	Display the vehicle speed signal received from combination meter by numerical value [Km/h]			

ACTIVE TEST

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

REAR WINDOW DEFOGGER

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

INFOID:0000000008880605

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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	Displays "Press (ON)/other (OFF)" status determined with the rear window defogger switch.		
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.		
ACC ON SW	Indicates [ON/OFF] condition of ignition switch ACC position.		

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:0000000008880606

CONSULT APPLICATION ITEMS

Test item	Diagnosis mode	Description
BUZZER	Data Monitor	Displays BCM input data in real time.
	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			
IGN ON SW [On/Off]	Status of ignition switch judged by BCM.			
KEY ON SW [On/Off]	Status of key switch judged by BCM.			
DOOR SW-DR [km/h]	Status of driver side door switch judged by BCM.			
REVERSE SW CAN [On/Off]	This item is displayed, but cannot be monitored.			
TAIL LAMP SW [On/Off]	Status of lighting switch judged by BCM using the combination switch readout function.			

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DIAGNOSIS SYSTEM (BCM) [WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Display item [Unit]	Description
FR FOG SW [On/Off]	Status of front fog lamp switch judged by BCM using the combination switch readout function.
BUCKLE SW [On/Off]	Status of seat belt buckle switch (driver side) received from combination meter with CAN communication line.
VEHICLE SPEED [km/h]	Value of vehicle speed signal received from combination meter with CAN communication line.

ACTIVE TEST

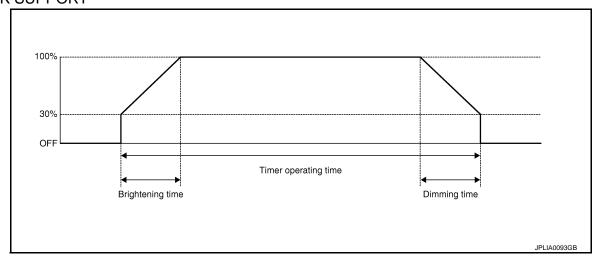
Display item [Unit]	Description
SEAT BELT WARN TEST	The seat belt warning chime operation can be checked by operating the relevant function (On/Off).
IGN KEY WARN ALM	The key warning chime operation can be checked by operating the relevant function (On/Off).
LIGHT WARN ALM	The light warning chime operation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

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000008880602

WORK SUPPORT



Service item	Setting item	Setting	
	MODE 1	0 sec.	
ROOM LAMP TIMER SET	MODE 2	7.5 sec.	Sate the interior room lamp ONI time (Timer enerating time)
ROOM LAWF TIMER SET	MODE 3*	15 sec.	Sets the interior room lamp ON time. (Timer operating time)
	MODE 4	30 sec.	
SET I/L D-UNLCK INTCON	On*	With the in	nterior room lamp timer function
SET I/L D-UNLCK INTCON	Off	Without the interior room lamp timer function	
	MODE 1	0.5 sec.	
	MODE 2*	1 sec.	
	MODE 3	2 sec.	
ROOM LAMP ON TIME SET	MODE 4	3 sec.	Sets the interior room lamp gradual brightening time.
	MODE 5	4 sec.	
	MODE 6	5 sec.	
	MODE 7	0 sec.	

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Service item	Setting item		Setting
	MODE 1	0.5 sec.	
	MODE 2*	1 sec.	
	MODE 3	2 sec.	
ROOM LAMP OFF TIME SET	MODE 4	3 sec.	Sets the interior room lamp gradual dimming time.
	MODE 5	4 sec.	
	MODE 6	5 sec.	
	MODE 7	0 sec.	
	MODE 1*	Interior room lamp timer activates with synchronizing all doors.	
R LAMP TIMER LOGIC SET	MODE 2	Interior room lamp timer activates with synchronizing the driver door only.	

^{*:} 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
IGN ON SW [On/Off]	Indicated [On/Off] condition of ignition switch in ON position
KEY ON SW [On/Off]	Indicated [On/Off] condition of key switch
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
BACK DOOR SW [On/Off]	Indicated [On/Off] condition of back door switch
LOCK STATUS [On/Off]	The switch status input from door lock status switch (driver side)
CDL LOCK SW [On/Off]	Indicates [On/Off] condition of door lock and unlock switch
CDL UNLOCK SW [On/Off]	Indicates [On/Off] condition of door lock and unlock switch
KEYLESS LOCK [On/Off]	Indicates [On/Off] condition of lock signal from keyfob
KEYLESS UNLOCK [On/Off]	Indicates [On/Off] condition of unlock signal from keyfob
TRNK/HAT MNTR [On/Off]	NOTE: This item is displayed, but cannot be tested
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder
ACC ON SW [On/Off]	Indicates [On/Off] condition of ignition switch in ACC position

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[WITHOUT INTELLIGENT KEY SYSTEM]

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

MULTI REMOTE ENT

MULTI REMOTE ENT : CONSULT Function (BCM - MULTI REMOTE ENT)

INFOID:0000000008880069

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
IGN ON SW	Indicates [On/Off] condition of ignition switch in ON position
KEY ON SW	Indicates [On/Off] condition of key switch
ACC ON SW	Indicates [On/Off] condition of ignition switch in ACC position
KEYLESS LOCK	Indicates [On/Off] condition of lock signal from keyfob
KEYLESS UNLOCK	Indicates [On/Off] condition of unlock signal from keyfob
KYLS TRNK/HAT	NOTE: This item is displayed, but cannot be tested
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
BACK DOOR SW	Indicates [On/Off] condition of back door switch
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be tested
CDL LOCK SW	Indicates [On/Off] condition of door lock and unlock switch
CDL UNLOCK SW	Indicates [On/Off] condition of door lock and unlock switch
KEYLESS PANIC	Indicates [On/Off] condition of PANIC button of keyfob

ACTIVE TEST

Test item	Description
INT LAMP	This test is able to check interior room lamp operation On: Operate Off: Non-operation
FLASHER	This test is able to check flasher operation [LH/RH/Off]
HORN	This test is able to check horn operation On: Operate

WORK SUPPORT

Test item	Description	
REMO CONT IN REGIST	Keyfob ID code can be registered	
REMO CONT IN ERASUR	Keyfob ID code can be erased	
REMO CONT IN CONFIR	It can be checked whether Intelligent Key ID code is registered or not in this mode	
HORN CHIRP SET	Hazard and horn reminder function (horn operation) mode can be changed in this mode On: Operate Off: Non-operation	

DIAGNOSIS SYSTEM (BCM) [WITHOUT INTELLIGENT KEY SYSTEM]

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< SYSTEM DESCRIPTION >

Test item	Description		
HAZARD LAMP SET	 Hazard and horn reminder function (hazard operation) mode can be changed in this mode MODE1: Non-operation MODE2: Unlock operation only MODE3: Lock operation only MODE4: Lock and unlock operation 		
AUTO LOCK SET	Auto door lock time can be changed in this mode • MODE 1: Non-operation • MODE 2: 30 sec • MODE 3: 1 minute • MODE 4: 2 minute • MODE 5: 3 minute • MODE 6: 4 minute • MODE 7: 5 minute		
PANIC ALARM SET	Panic alarm button pressing time on keyfob remote control button can be selected from the following with this mode • MODE1: 0.5 sec • MODE2: Non-operation • MODE3: 1.5 sec		
TRUNK OPEN SET	NOTE: This item is displayed, but cannot be tested		

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEAD LAMP)

WORK SUPPORT

Service item	Setting item		Setting
BATTERY SAVER SET	On*	With the exterior lamp battery saver function	
	Off	Without the exterior lamp battery saver function	
	MODE 1		
	MODE 2	NOTE: This item is displayed but is not operated	
	MODE 3		
ILL DELAY SET	MODE 4		
ILL DELAT SET	MODE 5		
	MODE 6		
	MODE 7		
	MODE 8		
HEAD LIGHT TIMER	MODE 1	10 sec.	Sets follow me home function activating time
HEAD LIGHT HIMEK	MODE 2*	30 sec.	Sets follow the notifie function activating time
	MODE 1		
	MODE 2	NOTE: This item is displayed but is not operated	
AUTO LIGHT LOGIC SET	MODE 3		
AUTO LIGHT LOGIC SET	MODE 4		
	MODE 5		
	MODE 6		

^{*:} 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	
IGN ON SW [On/Off]	Indicated [On/Off] condition of ignition switch in ON position	
ACC ON SW [On/Off]	Indicates [On/Off] condition of ignition switch in ACC position	
VEHICLE SPEED [km/h]	Display the vehicle speed signal received from combination meter by numerical value [Km/h]	
HI BEAM SW [On/Off]		
HEAD LAMP SW1 [On/Off]		
HEAD LAMP SW2 [On/Off]	Each switch status that BCM judges from the combination switch reading function	
PASSING SW [On/Off]		
FR FOG SW* [On/Off]		
AUTO LIGHT SW [On/Off]	NOTE: This item is indicated, but can not monitored	
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)	
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)	
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH	
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH	
BACK DOOR SW [On/Off]	The switch status input from back door switch	
TURN SIGNAL R [On/Off]		
TURN SIGNAL L [On/Off]	Each switch status that BCM judges from the combination switch reading function	
TAIL LAMP SW [On/Off]		
KEY ON SW [On/Off]	Indicated [On/Off] condition of key switch	
KEYLESS LOCK [On/Off]	Indicated [On/Off] condition of lock signal from key fob	
PKB SW [On/Off]	The parking brake switch status received from combination meter with CAN communication	
ENGINE RUN [On/Off]	The engine status received from ECM with CAN communication	
OPTI SEN (DTCT) [V]	NOTE: This item is indicated, but can not monitored	
OPTI SEN (FILT) [V]	NOTE: This item is indicated, but can not monitored	
LIG SEN COND [On/Off/NG]	NOTE: This item is indicated, but can not monitored	

^{*:} For models without front fog lamp, this item is displayed but is not monitored.

ACTIVE TEST

Test item	Operation	Description
TAIL LAMP	On	Transmits the position light request signal to IPDM E/R with CAN communication to turn the tail lamp ON
	Off	Stops the tail lamp request signal transmission
	Hi	Transmits the high beam request signal with CAN communication to turn the headlamp (HI)
HEAD LAMP	Lo	Transmits the low beam request signal with CAN communication to turn the headlamp (LO)
	Off	Stops the high & low beam request signal transmission
FR FOG LAMP* ¹	On	Transmits the front fog lights request signal to IPDM E/R with CAN communication to turn the front fog lamp ON
	Off	Stops the front fog lights request signal transmission
DAYTIME RUNNING LIGHT*2	On	Transmits the daytime running light request signal via CAN communication to IPDM E/R
	Off	Stop the daytime running light request signal transmission
ILL DIM SIGNAL	On	NOTE:
ILL DIW SIGNAL	Off	This item is indicated, but can not tested

^{*1:} For models without front fog lamp, this item is displayed but is not tested.

WIPER

WIPER: CONSULT Function (BCM - WIPER)

INFOID:0000000008880604

WORK SUPPORT

Service item	Setting item	Description
WIPER SPEED	On	With vehicle speed (Front wiper intermittent time linked with the vehicle speed and wiper intermittent dial position)
SETTING	Off*	Without vehicle speed (Front wiper intermittent time linked with the wiper intermittent dial position)

^{*:} 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		
IGN ON SW [On/Off]	Ignition switch ON status judged from ignition power supply.		
IGN SW CAN [On/Off]	Ignition switch ON status received from IPDM E/R with CAN communication.		
FR WIPER HI [On/Off]			
FR WIPER LOW [On/Off]			
FR WIPER INT [On/Off]	Each switch status that BCM judges from the combination switch reading function.		
FR WASHER SW [On/Off]			
INT VOLUME [1 – 7]	Each switch status that BCM judges from the combination switch reading function.		

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^{*2:} For models without daytime running light system, this item is not displayed.

DIAGNOSIS SYSTEM (BCM) [WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description	
FR WIPER STOP [On/Off]	Front wiper motor (stop position) status received from IPDM E/R with CAN communication.	
VEHICLE SPEED [km/h]	The value of the vehicle speed signal received from combination meter with CAN communication.	
RR WIPER ON [On/Off]		
RR WIPER INT [On/Off]	Each switch status that BCM judges from the combination switch reading function.	
RR WASHER SW [On/Off]		
RR WIPER STOP [On/Off]	Rear wiper motor (stop position) status input from the rear wiper motor.	
REVERSE SW CAN [On/Off]	Reverse position status as judged from TCM with CAN communication.	

ACTIVE TEST

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

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

INFOID:0000000008880601

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	
IGN ON SW [On/Off]	Indicates [On/Off] condition of ignition switch in ON position	
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	

ACTIVE TEST

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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.

AIR CONDITIONER

AIR CONDITIONER: CONSULT Function (BCM - AIR CONDITIONER) (Manual A/C)

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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.

Display item list

Monitor Iter	m [Unit]	Contents
FAN ON SIG	[On/Off]	Displays blower motor status as judged from blower fan ON signal.
AIR COND SW	[On/Off]	Displays A/C switch status as judged from A/C switch signal.
THERMO AMP	[On/Off]	Displays thermo control amp. status as judged from thermo control amp. signal.
IGN SW	[On/Off]	Displays ignition switch position status as judged form ignition switch signal.
FR DEF SW	[On/Off]	Displays the D/F or DEF status as judged from defroster position signal.

ACTIVE TEST

Test item	Operation	Description		
A/C INDICATOR	On	A/C indicator is turned ON.		
A/C INDICATOR	Off	A/C indicator is turned OFF.		

COMB SW

COMB SW: CONSULT Function (BCM - COMB SW)

INFOID:0000000008277125

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
TURN SIGNAL R [Off/On]	Displays the status of TURN RH switch in combination switch judged by the combination switch reading function.
TURN SIGNAL L [Off/On]	Displays the status of the TURN LH switch in combination switch judged by the combination switch reading function.
HI BEAM SW [Off/On]	Displays the status of HI BEAM switch in combination switch judged by the combination switch reading function.
HEAD LAMP SW 1 [Off/On]	Displays the status of HEADLAMP 1 switch in combination switch judged by the combination switch reading function.
HEAD LAMP SW 2 [Off/On]	Displays the status of HEADLAMP 2 switch in combination switch judged by the combination switch reading function.
TAIL LAMP SW [Off/On]	Displays the status of TAIL LAMP switch in combination switch judged by the combination switch reading function.
PASSING SW [Off/On]	Displays the status of PASSING switch in combination switch judged by the combination switch reading function.
AUTO LIGHT SW [Off/On]	NOTE: This item is indicated, but not monitored.

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[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor item [UNIT]	Description
FR FOG SW [Off/On]	Displays the status of FR FOG switch in combination switch judged by the combination switch reading function.
RR FOG SW [Off/On]	NOTE: This item is indicated, but not monitored.
FR WIPER HI [Off/On]	Displays the status of FR WIPER HI switch in combination switch judged by the combination switch reading function.
FR WIPER LOW [Off/On]	Displays the status of FR WIPER LOW switch in combination switch judged by the combination switch reading function.
FR WIPER INT [Off/On]	Displays the status of FR WIPER INT switch in combination switch judged by the combination switch reading function.
FR WASHER SW [Off/On]	Displays the status of FR WASHER switch in combination switch judged by the combination switch reading function.
INT VOLUME [1 - 7]	Displays the status of wiper intermittent dial position judged by the combination switch reading function.
RR WIPER ON [Off/On]	Displays the status of RR WIPER switch in combination switch judged by the combination switch reading function.
RR WIPER INT [Off/On]	Displays the status of RR WIPER INT switch in combination switch judged by the combination switch reading function.
RR WASHER SW [Off/On]	Displays the status of RR WASHER switch in combination switch judged by the combination switch reading function.

BCM

BCM: CONSULT Function (BCM - BCM)

INFOID:0000000008277126

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:0000000008880168

WORK SUPPORT

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

ACTIVE TEST

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

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000008880603

WORK SUPPORT

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.	

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Service item	Setting item	Setting
ROOM LAMP BAT SAV SET	On [*]	With the interior room lamp battery saver function
NOOM EXIM BAN OAN GET	Off	Without the interior room 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	
IGN ON SW [On/Off]	Indicated [On/Off] condition of ignition switch in ON position	
KEY ON SW [On/Off]	Indicated [On/Off] condition of key switch	
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	
BACK DOOR SW [On/Off]	Indicated [On/Off] condition of back door switch	
LOCK STATUS [On/Off]	The switch status input from door lock status switch (driver side)	
CDL LOCK SW [On/Off]	Indicates [On/Off] condition of door lock and unlock switch	
CDL UNLOCK SW [On/Off]	Indicates [On/Off] condition of door lock and unlock switch	
KEYLESS LOCK [On/Off]	Indicates [On/Off] condition of lock signal from keyfob	
KEYLESS UNLOCK [On/Off]	Indicates [On/Off] condition of unlock signal from keyfob	
TRNK/HAT MNTR [On/Off]	NOTE: This item is displayed, but cannot be tested	
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder	
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder	
ACC ON SW [On/Off]	Indicates [On/Off] condition of ignition switch in ACC position	

ACTIVE TEST

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

TRUNK

TRUNK: CONSULT Function (BCM - TRUNK)

INFOID:0000000008880070

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
KEY ON SW	Indicates [On/Off] condition of key switch.
LOCK STATUS	NOTE: This item is displayed, but cannot be monitored.
VEHICLE SPEED	Indicates [Km/h] condition of vehicle speed signal from combination meter.
IGN ON SW	Indicates [On/Off] condition of ignition switch.
TRNK OPNR SW	NOTE: This item is displayed, but cannot be monitored.
KYLS TRNK/HAT	NOTE: This item is displayed, but cannot be monitored.

THEFT ALM

THEFT ALM: CONSULT Function (BCM - THEFT)

INFOID:0000000008880169

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 will be turned on when "ON" on CONSULT screen is touched.
VEHICLE SECURITY HORN	This test is able to check horn operation. Horn will be activated for 0.5 seconds after "ON" on CONSULT screen is touched.
HEADLAMP (HI)	This test is able to check headlamp (HI) operation. Headlamps (HI) will be 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 will be activated after "LH" or "RH" on CONSULT screen is touched.

RETAIND PWR

RETAIND PWR: CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000008880171

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

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

SIGNAL BUFFER: CONSULT Function (BCM - SIGNAL BUFFER)

INFOID:0000000008277132

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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
OIL PRESS SW [Off/On]	NOTE: This item is indicated, but not monitored.
BRAKE SW [Off/On]	Displays the switch status input from stop lamp switch.

ACTIVE TEST

Test item	Operation	Description
OIL PRESSURE SW	Off	NOTE:
OIL PRESSURE SW	On	This item is indicated, but not tested.

PANIC ALARM

PANIC ALARM: CONSULT Function (BCM - PANIC ALARM)

INFOID:0000000008880170

ACTIVE TEST

Test item	Description
VEHICLE SECURITY HORN	This test is able to check horn operation. Horn is activated for 0.5 seconds after "ON" on CONSULT screen touched.
HEAD LAMP (HI)	This test is able to check headlamp (HI) operation. Headlamps (HI) will be activated after "ON" on CONSULT screen touched.

AIR PRESSURE MONITOR

AIR PRESSURE MONITOR: CONSULT Function (BCM - AIR PRESSURE MONI-TOR) INFOID:0000000008880609

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

iption
oplied from BCM.

SELF DIAGNOSTIC RESULT

Refer to BCS-123, "DTC Index".

DATA MONITOR MODE

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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< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor item (Unit)	Remarks
AIR PRESS FL (kPa, kg/cm2 or Psi)	
AIR PRESS FR (kPa, kg/cm2 or Psi)	Tire pressure
AIR PRESS RR (kPa, kg/cm2 or Psi)	
AIR PRESS RL (kPa, kg/cm2 or Psi)	
ID REGST FL1 (Yet, Done)	
ID REGST FR1 (Yet, Done)	Registration ID
ID REGST RR1 (Yet, Done)	
ID REGST RL1 (Yet, Done)	
WARNING LAMP (On/Off)	Low tire pressure warning lamp
BUZZER (On/Off)	NOTE: This item is displayed, but cannot be use this item.

ACTIVE TEST MODE

NOTE:

- After completing the work below, perform an active test.

 1. Check ID registration state and perform self-diagnosis.
- Erase the self-diagnosis result history.

Item	Description
WARNING LAMP	Low tire pressure warning lamp can be turned ON arbitrarily.
ID REGIST WARNING	NOTE: Displayed but not used in TPMS.
RUN FLAT TIRE W/L	NOTE: Displayed but not used in TPMS.
FLASHER	Turn signal lamps can be turned ON arbitrarily.
RUN FLAT TIRE W/R	NOTE: Displayed but not used in TPMS.

WORK SUPPORT

Item	Description
ID READ	Registered tire pressure sensor ID can be displayed.
ID REGIST	Tire pressure sensor ID can be registered.

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000008277135

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.

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
IGN ON SW	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
KEY ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK CW	Off	
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
CDL UNLOCK 5W	Press door lock/unlock switch to the unlock side	On
DOOD CW DD	Driver's door closed	Off
DOOR SW-DR	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
DOOK SW-AS	Passenger door opened	On
DOOD CW DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOK SW-KL	Rear LH door opened	On
DACK DOOD CW	Back door closed	Off
BACK DOOR SW	Back door opened	On
LOCK STATUS	Driver door is locked	Off
LOCK STATUS	Driver door is unlocked	On
ACC ON CW	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
VEVI FOR LOCK	"LOCK" button of key fob is not pressed	Off
KEYLESS LOCK	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
KETLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
SHOCK SENSOR	NOTE: The item is indicated, but not monitored.	NORMAL
KEY CYLLK CW	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEY OVELINEOW	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
VEHICLE SPEED	While driving	Equivalent to speed ometer reading
DEAD DEE SW	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On

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< ECU DIAGNOSIS INFORMATION >

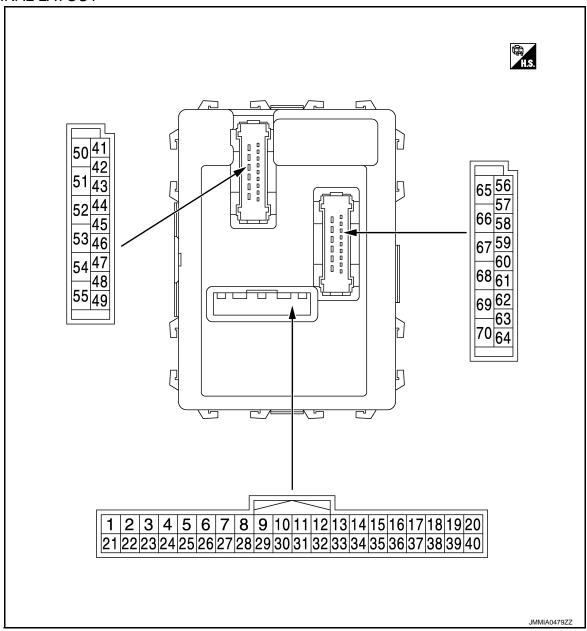
Monitor Item	Condition	Value/Status
REVERSE SW CAN	NOTE: The item is indicated, but not used	Off
		On On
AIL LAMP SW		Off
		On O"
R FOG SW	ERSE SW CAN NOTE: The item is indicated, but not used. Lighting switch OFF Lighting switch OFF Front fog lamp switch OFF Front fog lamp switch ON KLE SW The seat belt (driver side) is fastened. [Seat belt switch (driver side) OFF] The seat belt (driver side) is unfastened. [Seat belt switch (driver side) ON] KHAT MNTR NOTE: The item is indicated, but not monitored. SW Ignition switch OFF Ignition switch OFF Ignition switch ACC or ON NOTE: The item is indicated, but not monitored. ESS PANIC NOTE: The item is indicated, but not monitored. Lighting switch OFF The item is indicated, but not monitored. OLIGHT SW NOTE: The item is indicated, but not monitored. Turn signal switch OFF Parking brake switch is ON Engine stopped Engine running NOTE: The item is indicated, but not monitored. NOTE: The item is indicated, but not monitored. NOTE: The item is indicated, but not monitored. NOTE: The item is indicated, but not monitored.	Off
		On
BUCKLE SW		Off
	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) ON]	On
RNK/HAT MNTR		Off
ACC SW	Ignition switch OFF	Off
	Ignition switch ACC or ON	On
YLS TRNK/HAT		Off
KEYLESS PANIC		Off
II REAM SW	Lighting switch OFF	Off
II DEAIVI OVV	Lighting switch HI	On
JEAD LAMB OM 4	Lighting switch OFF	Off
1EAD LAMP SW 1	Lighting switch 2ND	On
IEAD LAMD OW	Lighting switch OFF	Off
1EAD LAMP SW 2	Lighting switch 2ND	On
AUTO LIGHT SW		Off
24.001110.0147	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
RR FOG SW		Off
	Turn signal switch OFF	Off
URN SIGNAL R	Turn signal switch RH	On
	-	Off
URN SIGNAL L		On
		Off
PKB SW	-	On
	-	Off
ENGINE RUN		On
OPTI SEN (DTCT)	NOTE:	0 V
OPTI SEN (FILT)	NOTE:	0 V
IG SEN COND		OFF
	Ignition switch OFF or ACC	Off
GN SW CAN	Ignition switch ON	On
	Front wiper switch OFF	Off
R WIPER HI	Front wiper switch HI	On

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
R WIPER LOW	Front wiper switch OFF	Off
K WIF LK LOW	Front wiper switch LO	On
R WIPER INT	Front wiper switch OFF	Off
IC WII EICHVI	Front wiper switch INT	On
FR WASHER SW	Front washer switch OFF	Off
IN WASHEN OW	Front washer switch ON	On
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
R WIPER STOP	Any position other than front wiper stop position	Off
K WII EK OTOI	Front wiper stop position	On
RR WIPER ON	Rear wiper switch OFF	Off
AR WII ER ON	Rear wiper switch ON	On
RR WIPER INT	Rear wiper switch OFF	Off
XX WIFEX INT	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
VIC WASHER SW	Rear washer switch ON	On
RR WIPER STOP	Rear wiper stop position	Off
AR WII ER STOI	Other than rear wiper stop position	On
RAIN SENSOR	NOTE: The item is indicated, but not monitored.	Off
14.74.D.D. O.W.	Hazard switch OFF	Off
HAZARD SW	Hazard switch ON	On
TANLONI CIO	Blower control dial OFF	Off
FAN ON SIG	Other than blower control dial OFF	On
ND COND OW	A/C switch OFF	Off
AIR COND SW	A/C switch ON	On
	Ignition switch ON	Off
THERMO AMP	Evaporator is extremely low temperature	On
D DEE CW	Other than A/C mode defroster ON position	Off
FR DEF SW	A/C mode defroster ON position	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off
FRNK OPNR SW	NOTE: The item is indicated, but not monitored.	Off
FRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off
	Close the hood	Off
HOOD SW	Open the hood	On
	Other than the ignition switch is ON by key registered to BCM.	Off
TRANSPONDER	The ignition switch is ON by key registered to BCM.	On
NTELLI KEY	NOTE: The item is indicated, but not used.	Off
AUTO RELOCK	NOTE: The item is indicated, but not monitored.	Off
OIL PRESS SW	NOTE: The item is indicated, but not monitored.	Off
	Brake pedal is not depressed	Off
BRAKE SW		

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PHYSICAL VALUES

	nal No. e color)	Description			Condition	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF	0 V	В
					Turn signal switch RH		
					Lighting switch HI	(V) 15 10	
2 (L)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermit-	Lighting switch 1ST	10 5 0 PKIB4958J 1.0 V	D
			. ((Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1	F
					All switches OFF	0 V	
					Turn signal switch LH		Н
					Lighting switch PASS	(V) 15	
3 (GR)	Ground	Combination switch INPUT 4	Input	Combination switch (Wiper intermit-	Lighting switch 2ND	10 5 0 PKIB4958J	J
				tent dial 4)	Front fog lamp switch ON	(V) 15 10 5 0	K
						PKIB4956J 0.8 V	ВС
					All switches OFF	0 V	
					Front wiper switch LO	(V)	N
				Combination	Front wiper switch MIST	(V) 15 10 5	
4 (BR)	Ground	Combination switch INPUT 3	Input	switch (Wiper intermit- tent dial 4)	Front wiper switch INT	0 → +10ms	
						PKIB4958J 1.0 V	F

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
5 (G)	Ground	Combination switch INPUT 2	Input	Combination switch	All switches OFF (Wiper intermittent dial 4) Front washer switch ON (Wiper intermittent dial 4) Rear washer switch ON (Wiper intermittent dial 4) Any of the condition below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	0 V (V) 15 10 5 0 PKIB4958J 1.0 V
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 +10ms PKIB4956J 0.8 V
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 0
					Wiper intermittent dial 3 (All switches OFF)	PKIB4958J
6 (W)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	(V) 15 10 5 0 PKIB4952J 1.9 V
					Any of the condition below with all switches OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 10ms PKIB4956J 0.8 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
7 (L)	Ground	Door key cylinder switch UNLOCK	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 5 0 + 10ms PKIB4960J	
					UNLOCK position	7.0 - 8.0 V 0 V	
8 (R)	Ground	Door key cylinder switch LOCK	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 5 0	
						PKIB4960J 7.0 - 8.0 V	
					LOCK position	0 V	
9	Ground	Stop lamp switch	Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V	
(R)	Ground	Clop lamp switch	mpat	switch	ON (Brake pedal is depressed)	Battery voltage	
10	Ground	Rear window defog-	Input	Rear window	OFF (Not pressed)	12 V	
(W)	Cround	ger switch	mpat	defogger switch	ON (Pressed)	0 V	
11	Ground	Ignition switch ACC	Input	Ignition switch O	FF	0 V	
(L)	Cround	Igilition switch 7100	mpat	Ignition switch A	CC or ON	Battery voltage	
12 (Y)	Ground	Door lock and unlock switch LOCK	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 0	
						JPMIA0012GB 1.0 - 1.5 V	В
					LOCK position	0 V	
13 (BR)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 0 10 ms JPMIA0012GB	
					This core	1.0 - 1.5 V	
					UNLOCK position	0 V	
15* ¹ (W)	_	_	_		_	_	
18 (V)	Ground	Receiver ground	Input	Ignition switch O	N	0 V	

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value				
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)				
					Insert mechanical key into ignition key cylinder	0 V				
	19 (BR) Ground				Remove mechanical key from ignition key cylinder (Any door opened)	5 V				
		Remote keyless en- try receiver power supply	Input	Ignition switch OFF	Remove mechanical key from ignition key cylinder (Any door closed)	(V) 6 4 2 0 ****0.2 S				
					Insert mechanical key into ignition key cylinder	0 V				
20 (G)	Ground	Remote keyless entry receiver communication	Input	Input	Input	Input	Input	Input Ignition switch OFF	Waiting	(V) 6 4 2 0 •••1.0ms
					Signal receiving	(V) 6 4 2 0 ••1.0ms				
21	Ground	NATS antenna amp.	Input/	Just after insertin	g ignition key in key cylinder	Pointer of tester should move				
(P)	Ground	TWATO anterina amp.	Output	Other than above	•	0 V				
23 (R)	Ground	Security indicator lamp	Input	Security indicator lamp	ON Blinking (Ignition switch OFF) OFF	0 V (V) 15 10 5 0 JPMIA0014GB 11.3 V 12 V				
24*2	Ground	Dongle link	Input/			_				
(SB)	Cround	- Songio IIIIN	Output	hart after the state of	minutain lineate to the Port	Dainten effecter 1 11 11 11 11 11 11 1				
25 (LG)	Ground	NATS antenna amp.	Input/ Output	Other than above	g ignition key in key cylinder	Pointer of tester should move 0 V				
26				Ignition switch O		0 V				
(B)	Ground	Thermo control amp.	Input	Evaporator is ext	remely low temperature	12 V				

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Terminal No. Description		Description	n			Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
27 (W)	Ground	A/C switch	Input	A/C switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.0 - 1.5 V
					ON	0 V
					Blower fan switch OFF	0 V
28 (O)	Ground	Blower fan switch	Input	Fan switch	Blower fan switch ON	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
29	Ground	Hazard switch	Input	Hazard switch	OFF	12 V
(L)	0.00		,		ON	0 V
					Pressed	0 V
30 (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
					A/C mode defroster ON position	0 V
31 (G)	Ground	Front defroster switch	Input	Ignition switch ON	Other than A/C mode de- froster ON position	(V) 15 10 5 0

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< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Value
+	-	Signal name	Input/ Output	Condition		(Approx.)
20		Combination switch		O antication	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 - 8.0 V
32 (LG)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	
				Rear wiper switch ON (Wiper intermittent dial 4	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5
						Any of the condition below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7
33		Combination switch		Combination	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 - 8.0 V
(Y)	Ground	OUTPUT 4	Output	switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) :
					Rear wiper switch INT (Wiper intermittent dial 4)	15 10 5
					Any of the condition below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	PKIB4958J

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Λ
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF (Wiper intermittent dial 4)	(V) 15 0 5 0 10ms PKIB4960J 7.0 - 8.0 V	ВС
34 (V)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)		
` ,					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10	Е
					Rear washer switch ON (Wiper intermittent dial 4)	0	F
					Any of the condition below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J 1.2 V	G
35		Combination switch		Combination switch	All switches OFF	(V) 15 10 5 0 ***+10ms PKIB4960J 7.0 - 8.0 V	H
(R)	Ground	OUTPUT 2	Output	(Wiper intermit- tent dial 4)	Lighting switch 2ND	(10)	
				10.11 0.01 1,	Lighting switch PASS Front wiper switch INT	(V) 15	Κ
					Front wiper switch HI	5 0 ++10ms PKIB4958J 1.2 V	L
36	Ground	Combination switch	Output	Combination switch	All switches OFF	(V) 15 10 5 0 	N O
(P)	Giouria	OUTPUT 1	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	(V)	Р
				,	Turn signal switch LH Front wiper switch LO	(V) 15 10	
					Front wiper switch MIST	5 0	
					Front washer switch ON	PKIB4958J	

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Condition		Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
37	Ground	Key switch	Input	der	al key into ignition key cylin-	Battery voltage
(GR)		.,	, .	Remove mechar cylinder	nical key from ignition key	0 V
38	Ground	Ignition switch ON	Input	Ignition switch O		0 V
(R)	0.000	igimion cimon cit		Ignition switch O	N	Battery voltage
39 (L)	Ground	CAN-H	Input/ Output		_	_
40 (P)	Ground	CAN-L	Input/ Output		_	_
41		Rear wiper stop po-		Ignition switch	Rear wiper stop position	0 V
(LG)	Ground	sition	Input	ON ON	Any position other than rear wiper stop position	12 V
42 (LG)	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
43 (BR)	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 LH door opened)	0 V
44 (SB)	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	

< ECU DIAGNOSIS INFORMATION >

Terminal No. Description (Wire color)				Value		
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
45 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
					ON (When passenger door opened)	0 V
47 (P)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) 15 10 5 0 +-10ms PKIB4960J
					ON (When back door opened)	7.0 - 8.0 V 0 V
					Turn signal switch OFF	0 V
48 (W)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s PKIC6370E
					Turn signal switch OFF	0 V
49 (V)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s PKIC6370E 6.0 V
50	Ground	Back door open	Output	Back door	OFF (Actuator is not activated)	0 V
(GR)	34	 		Dack Gool	OPEN (Actuator is activated)	12 V
53	Ground	Rear wiper	Output	Ignition switch	Rear wiper switch OFF	0 V
(P)	Ciodila	. toa. mpoi	Carpar	ON	Rear wiper switch ON	12 V
55	Ground	Luggage room lamp	Output	Luggage room lamp	OFF	12 V

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description				Value
+ (vvire	- color)	Signal name	Input/ Output	Condition		(Approx.)
56	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	12 V
(W)	Ground	LOCK	Output	Driver door	Other then UNLOCK (Actuator is not activated)	0 V
57 (L)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage
					p battery saver is activated. room lamp power supply)	0 V
58 (LG)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		12 V
60	Ground	Interior room lamp	Output	Interior room	OFF	12 V
(BR)	Ground	control	Output	lamp	ON	0 V
63	Ground	A/C indicator	Output	A/C indicator	OFF	12 V
(SB)	Cround	7 V O III dioatoi	Output	7 VO III GIOGLOI	ON	0 V
65 (Y)	Ground	Battery power sup- ply	Input	Ignition switch OFF		Battery voltage
66 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch O	FF	12 V
67 (L)	Ground	P/W power supply (IGN)	Output	Ignition switch O	N	12 V
68	Ground	Passenger door and	Output	Passenger door	UNLOCK (Actuator is activated)	12 V
(SB)	Ground	rear door UNLOCK	Output	and rear door	Other then UNLOCK (Actuator is not activated)	0 V
69	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	12 V
(V)	Giouria	All doors LOCK	Output	All GOOIS	Other then LOCK (Actuator is not activated)	0 V
70 (B)	Ground	Ground	Output	Ignition switch ON		0 V

^{*1:} This terminal is not used

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch $ON \rightarrow OFF$
B2196: DONGLE NG	Inhibit engine cranking	Erase DTC

REAR WIPER MOTOR PROTECTION

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

^{*2:} For Canada

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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

Condition of cancellation

- 1. Pass more than 1 minute after the rear wiper stop.
- 2. 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.

DTC Inspection Priority Chart

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

Priority	DTC	
1	U1000: CAN COMM U1010: CONTROL UNIT (CAN)	
2	C1735: IGN CIRCUIT OPEN	
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING B2196: DONGLE NG	
4	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RL C1729: VHCL SPEED SIG ERR 	

DTC Index

NOTE:

Details of time display

CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.

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

CONSULT display	Fail-safe	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM	_	_	BCS-132
U1010: CONTROL UNIT (CAN)	_	_	BCS-133
B2190: NATS ANTENNA AMP	×	_	SEC-147

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< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Tire pressure monitor warning lamp ON	Reference
B2191: DIFFERENCE OF KEY	×	_	<u>SEC-150</u>
B2192: ID DISCORD BCM-ECM	×	_	<u>SEC-151</u>
B2193: CHAIN OF BCM-ECM	×	_	<u>SEC-152</u>
B2195: ANTI SCANNING	×	_	<u>SEC-153</u>
B2196: DONGLE NG	×	_	<u>SEC-154</u>
C1704: LOW PRESSURE FL	_	×	
C1705: LOW PRESSURE FR	_	×	WT-23
C1706: LOW PRESSURE RR	_	×	<u>W1-23</u>
C1707: LOW PRESSURE RL	_	×	
C1708: [NO DATA] FL	_	×	
C1709: [NO DATA] FR	_	×	WT-25
C1710: [NO DATA] RR	_	×	<u>VV 1-25</u>
C1711: [NO DATA] RL	_	×	
C1716: [PRESS DATA ERR] FL	_	×	
C1717: [PRESS DATA ERR] FR	_	×	WT-28
C1718: [PRESS DATA ERR] RR	_	×	<u>vv 1-20</u>
C1719: [PRESS DATA ERR] RL	_	×	
C1729: VHCL SPEED SIG ERR	_	×	<u>WT-30</u>
C1735: IGN CIRCUIT OPEN	_	_	BCS-134

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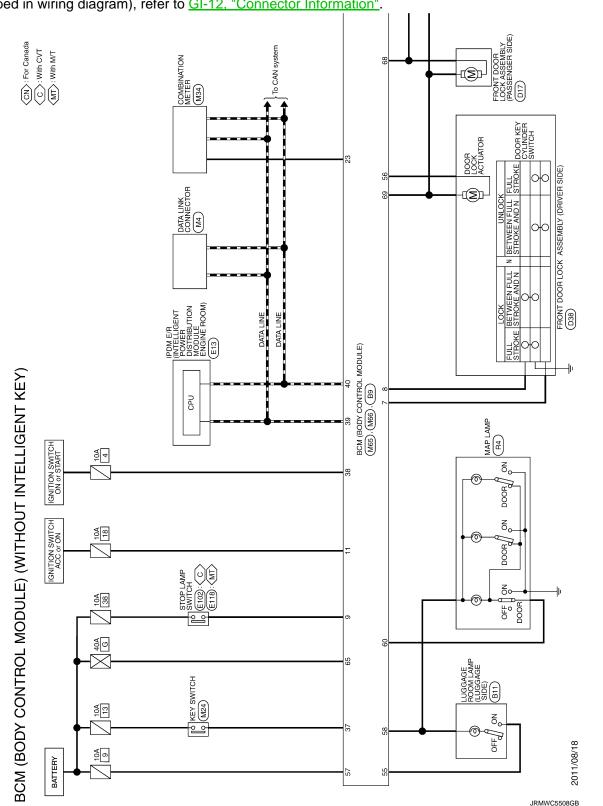
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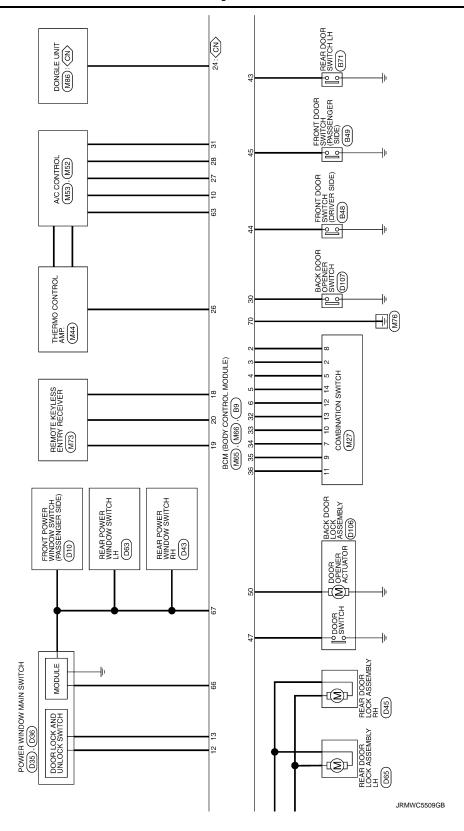
WIRING DIAGRAM

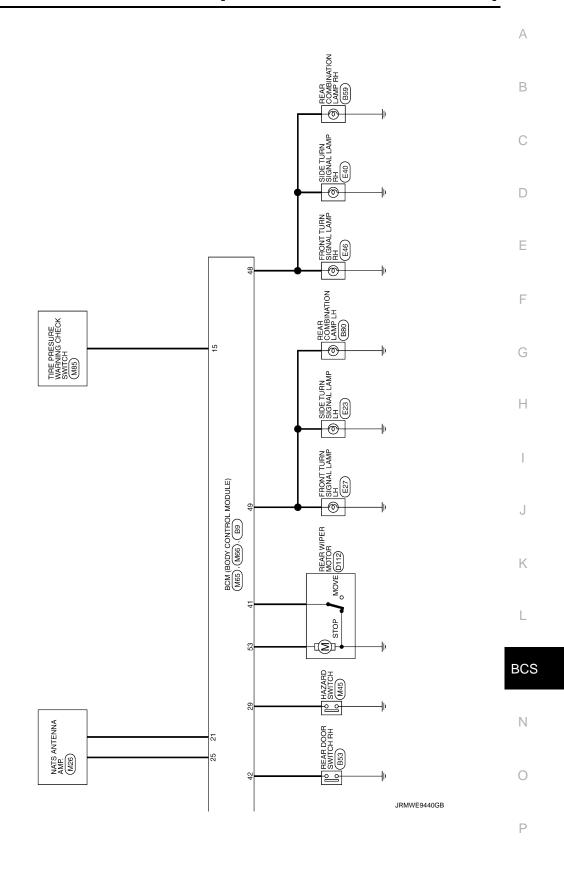
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Wiring Diagram

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".







ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT PECTION > [WITHOUT INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

BASIC INSPECTION

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

Description INFOID:000000008277140

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).

Work Procedure

1. SAVING VEHICLE SPECIFICATION

(P)CONSULT Configuration

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>BCS-129</u>, "<u>Description</u>".

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-142, "Removal and Installation".

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

(P)CONSULT Configuration

Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to <u>BCS-129</u>, "Work <u>Procedure"</u>.

>> GO TO 4.

4. INITIALIZE BCM (NATS) (IF EQUIPPED)

Perform BCM initialization, (NATS)

>> WORK END

CONFIGURATION (BCM)

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

CONFIGURATION (BCM)

Description INFOID:000000008277142

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.

Work Procedure

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"

©CONSULT Configuration

Perform "WRITE CONFIGURATION - Config file".

>> WORK END

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

(P)CONSULT Configuration

- 1. Select "WRITE CONFIGURATION Manual selection".
- Identify the correct model and configuration list. Refer to BCS-130, "Configuration list".
- Confirm and/or change setting value for each item.

CAUTION:

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

NOTE:

If items are not displayed, touch "SETTING". Refer to <u>BCS-130, "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.

BCS-129

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

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CONFIGURATION (BCM)

[WITHOUT INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> WORK END

Configuration list

INFOID:0000000008277144

CAUTION:

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

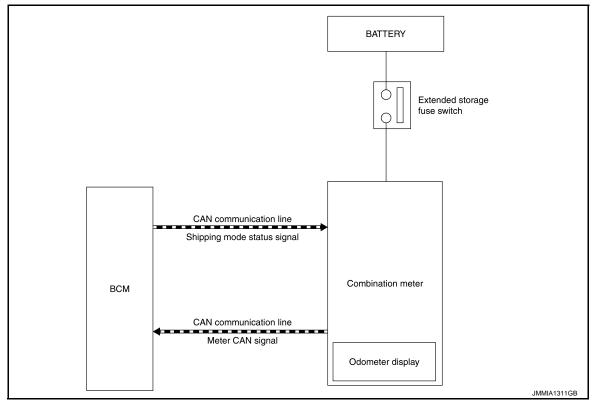
SETTIN	NG ITEM	NOTE	
Items	Setting value		
DTRL	WITH ⇔ WITHOUT	WITH: With daytime running light system WITHOUT: Without daytime running light system	
TIRE PRESSURE	230kPa ⇔ 240kPa ⇔ 250kPa	230kPa: 2WD M/T models240kPa: AWD models250kPa: 2WD except M/T models	

^{⇔:} Items which confirm vehicle specifications

SHIPPING MODE CANCEL OPERATION

Description INFOID:0000000008880045

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 odometer display, when BCM is in shipping mode.
- BCM control functions are limited in shipping mode. Refer to BCS-141, "Description".
- *1: Odometer signal, wake up signal and each signal.
- *2: When shipping mode function operates, "SHIP→PHASE→On→PUSH→FUSE In" is displayed.

Work Procedure INFOID:0000000008880046

1. SHIPPING MODE CANCEL OPERATION

- 1. Turn ignition switch OFF.
- 2. Push in (switch on) the extended storage fuse switch. Refer to PG-91, "How To Check".
- 3. Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 2 seconds.

>> GO TO 2.

2.SHIPPING MODE CANCEL CHECK

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

>> WORK END

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DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM

Description INFOID:000000008277147

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-28</u>, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

DTC	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

INFOID:0000000008277149

1.PERFORM SELF DIAGNOSTIC

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

Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-15, "Trouble Diagnosis Flow Chart".

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

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000008277151

1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to BCS-142, "Removal and Installation".

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C1735 IGN CIRCUIT OPEN

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible cause
C1735	IGN CIRCUIT OPEN	Detected following signals are different for 60 seconds; Ignition switch ON signal inputted from ignition switch Ignition relay status signal received from IPDM E/R with CAN communication	Harness or connector (Ignition power supply circuit) BCM IPDM E/R

NOTE:

BCM may detect that ignition switch is OFF when IGN power supply voltage is low.

DTC CONFIRMATION PROCEDURE

1.DTC CONFIRMATION

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

Is any DTC detected?

YES >> Refer to <u>BCS-134</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008277153

1. CHECK BCM IGNITION POWER SUPPLY CIRCUIT

Check BCM ignition power supply circuit. Refer to BCS-135, "Diagnosis Procedure".

Is the circuit normal?

YES >> GO TO 2

NO >> Repair the malfunctioning part.

2.CHECK IPDM E/R POWER SUPPLY CIRCUIT

Check IPDM E/R power supply circuit. Refer to PCS-61, "Diagnosis Procedure".

Is the circuit normal?

YES >> GO TO 3.

NO >> Repair the malfunctioning part.

3.CHECK IPDM E/R IGNITION RELAY STATUS

©CONSULT DATA MONITOR

- Select "IGN RLY" of IPDM E/R data monitor item.
- 2. With operating the ignition switch, check the monitor status.

Monitor item	Condition		Monitor status
IGN RI Y	lanition switch	OFF	Off
IGN KET	Ignition switch	ON	On

Is the item status normal?

YES >> Replace BCM. Refer to BCS-142, "Removal and Installation".

NO >> Replace IPDM E/R. Refer to PCS-62, "Removal and Installation".

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000008277154

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1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not fusing.

Signal name	Fuses and fusible link No.
Battery power supply	9
battery power suppry	G
ACC power supply	18
Ignition power supply	4

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.

	Terminals		- Ignition switch position			
(-	+)					
В	CM	(-)	OFF	ACC	ON	
Connector	Terminal		OFF	ACC		
M66	65		Battery	Battery	Battery	
IVIOO	57		voltage	voltage	voltage	
M65	11	Ground	Approx. 0 V	Battery voltage	Battery voltage	
	38		Approx. 0 V	Approx. 0 V	Battery 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	СМ		Continuity
Connector	Terminal	Ground	Continuity
M66	M66 70		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000008277155

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.

Custom	ВС	CM	Combinat	Continuity		
System	Connector	Terminal	Connector	Terminal	Continuity	
OUTPUT 1		36		11		
OUTPUT 2		35		9		
OUTPUT 3	M65	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
Gystein	Connector Terminal			Continuity
OUTPUT 1		36		
OUTPUT 2		35	Ground	
OUTPUT 3	M65	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	ВСМ			(Approx.)				
	Connector	Terminal						
OUTPUT 1		36						
OUTPUT 2		35		(V) 15				
OUTPUT 3		34	Ground	10 10 10 10 10 10 10 10 10 10 10 10 10 1				
OUTPUT 4	M65	33		0				
OUTPUT 5		32		PKIB4960J 7.0 - 8.0 V				

Is the measurement value normal?

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

YES >> Replace combination switch.

NO >> Replace BCM. Refer to <u>BCS-142</u>, "Removal and Installation".

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COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000008277156

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	Existed	
INPUT 3	M65	4	M27	5		
INPUT 4		3		2		
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	СМ		Continuity
System	Connector	Terminal		Continuity
INPUT 1		6		
INPUT 2		5	Ground	
INPUT 3	M65	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.
- Check voltage between BCM harness connector and ground.

		3				
System	(+	-)	(-)	Voltage		
System	BC	CM		(Approx.)		
	Connector	Terminal				
INPUT 1		6				
INPUT 2		5	Ground	Refer to BCS-		
INPUT 3	M65	4		109, "Reference Value".		
INPUT 4		3				
INPUT 5		2				

Is the measurement value normal?

Yes >> Replace BCM. Refer to BCS-142, "Removal and Installation".

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

>> Replace combination switch.

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COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

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.

															M	lalfunction item: \times
	Data monitor 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	FR FOG SW	Malfunction combination
	×	×						×	×							Α
×			×									×		×		В
						×	×				×		×			С
					×		×			×						D
				×			×								×	E
×					×		×									F
-		×		×		×	×									G
	×		×													Н
-									×				×	×	×	1
								×		×	×	×				J
	All Items						K									
		If o	nly one	item is	detecte	d or the	item is	not app	olicable	to the o	combina	ations A	to K			L

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

Malfunction combination	Malfunctioning part	Repair or replace			
Α	Combination switch 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 <u>BCS-136</u> , " <u>Diagnosis Procedure</u> ".			
D	Combination switch OUTPUT 4 circuit				
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-138, "Diagnosis Procedure".			
ļ	Combination switch INPUT 4 circuit	, partirition to <u>200 100, 21agricolo 1 1000anio</u>			
J	Combination switch INPUT 5 circuit				
K	BCM	Replace BCM. Refer to BCS-142, "Removal and Installation".			
L	Combination switch	Replace combination switch.			

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

NORMAL OPERATING CONDITION

Description INFOID:000000008880047

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 <u>BCS-131, "Description"</u>.

NOTE:

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

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< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

Removal and Installation

INFOID:0000000008277159

NOTE:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>BCS-128</u>, "<u>Description</u>".

REMOVAL

- 1. Remove instrument lower panel. Refer to IP-12, "Removal and Installation".
- 2. Remove harness clip.
- 3. Remove BCM mounting screws.
- 4. Remove BCM and disconnect the connectors.
- 5. Remove relays and relay mounting bracket from BCM.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

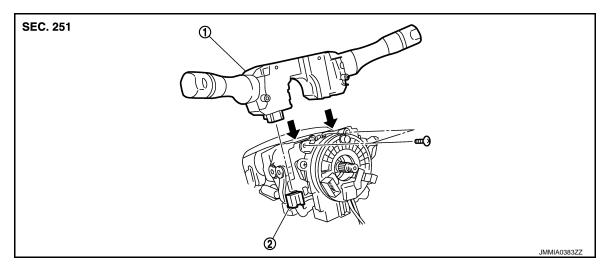
Be sure to perform "WRITE CONFIGURATION" when replacing BCM. Or not doing so, BCM control function does not operate normally.

NOTE:

Be sure to perform the system initialization (NATS) when replacing BCM. Refer to <u>BCS-129, "Work Procedure"</u>.

COMBINATION SWITCH

Exploded View



1. Combination switch

2. Combination switch connector

Removal and Installation

REMOVAL

- 1. Remove steering column cover. Refer to IP-12, "Removal and Installation".
- 2. Remove screws.
- 3. Disconnect the connector.
- 4. Pull up the combination switch to remove it.

INSTALLATION

Install in the reverse order of removal.

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