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PRECAUTION

PRECAUTIONS

Precautions for Removing of Battery Terminal

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

NOTE:

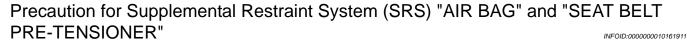
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

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

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

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

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



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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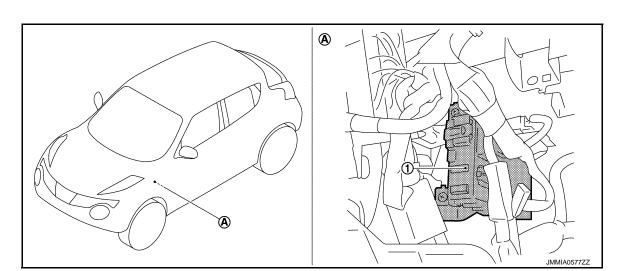
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SYSTEM DESCRIPTION

COMPONENT PARTS
BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: Component Parts Location



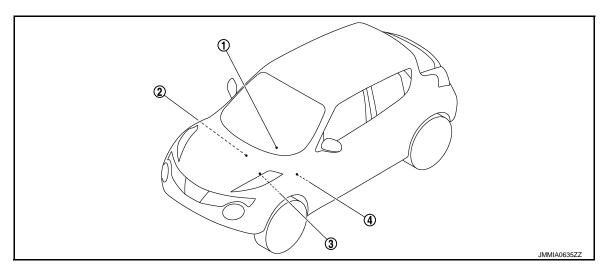
- 1. BCM
- A. Behind of instrument lower panel LH (Left side)

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM: Component Parts Location

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- 1. Combination meter
- Multi display unit
 Refer to <u>DMS-3</u>, "Component Parts <u>Location</u>".
- 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 syst	em	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 tail	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-7, "FRONT WIPER AND WASHER SYSTEM : System Diagram"	
Rear wiper and washer system		WW-10, "REAR WIPER AND WASHER SYSTEM : System Diagram"	
Warning chime system		WCS-6, "WARNING CHIME SYSTEM : System Diagram"	
Power door lock system		DLK-14, "System Diagram"	
Nissan Vehicle Immobilizer System (NVIS) - NATS		SEC-15, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS: System Diagram"	
	Theft warning alarm	CEC 40 W/ELUCI E CECUDITY CVCTEM - Cyctom Diogram	
Vehicle security system	Panic alarm	SEC-18, "VEHICLE SECURITY SYSTEM : System Diagram"	
Rear window defogger system		DEF-7, "WITH AUTO A/C : System Diagram" (With automatic A/C) DEF-7, "WITHOUT AUTO A/C : System Diagram" (Without automatic A/C)	
Intelligent Key system/engine start system	1	DLK-16, "INTELLIGENT KEY SYSTEM : System Diagram"	

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System Refer		Reference
Back door opener system		DLK-27, "System Diagram"
Air conditioning control quotem	Automatic A/C	HAC-11, "System Diagram"
Air conditioning control system	Manual A/C	HAC-104, "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 (TPM	1S)	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

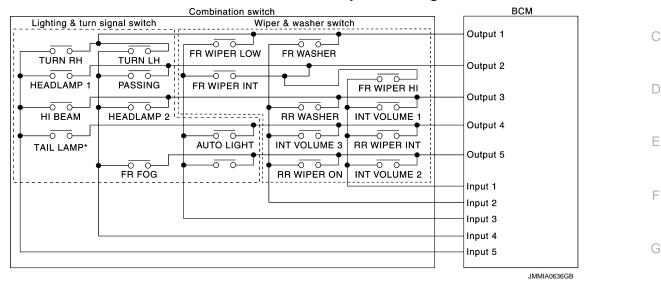
If voltage of battery power supply lower, BCM maintains combination switch reading to the status when input voltage is less than approximately 9 V.

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.

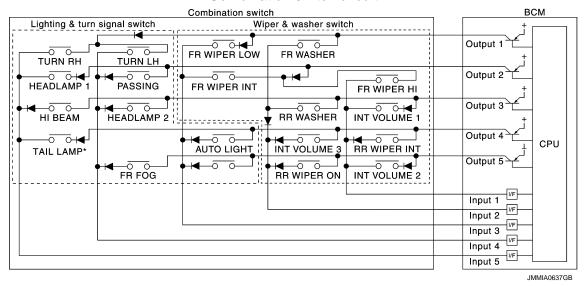
COMBINATION SWITCH READING SYSTEM: System Description

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:

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

< SYSTEM DESCRIPTION >

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	_

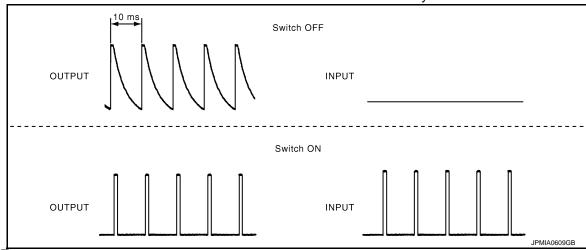
NOTE:

Headlamp has a dual system switch.

COMBINATION SWITCH READING FUNCTION

Description

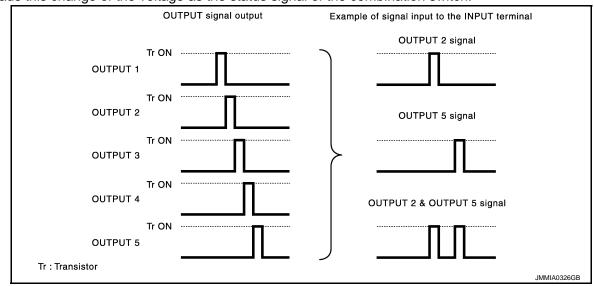
BCM reads the status of the combination switch at 10 ms interval normally.



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.

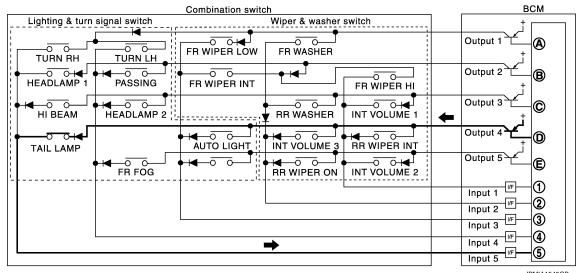


Operation Example

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

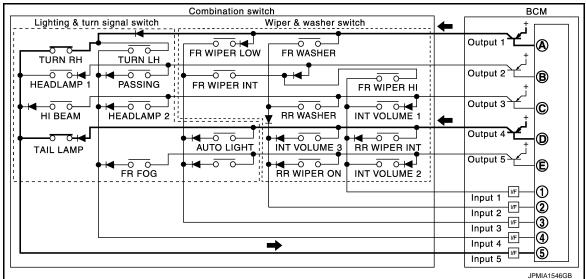
The circuit between OUTPUT 4 and INPUT 5 is formed when the TAIL LAMP switch is turned ON.



- 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			er intermittent
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

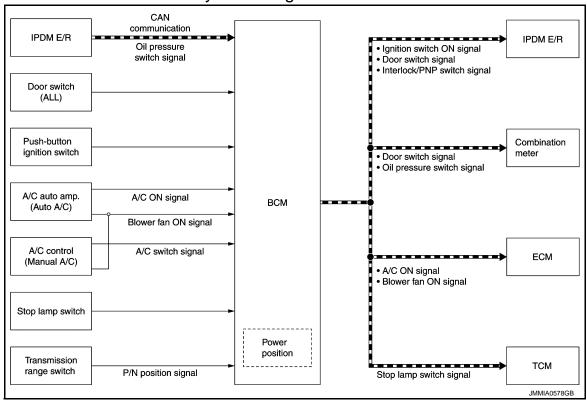
NOTE:

For details of wiper intermittent dial position, refer to WW-7, "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

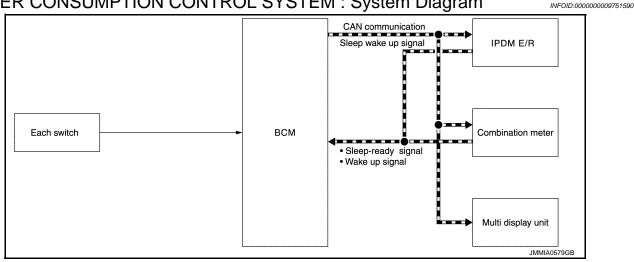
BCM has the signal transmission function that outputs/transmits each input/received signal to each unit. Signal transmission function list

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

< 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 1 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, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : 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 \rightarrow ON, ON \rightarrow 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 \rightarrow ON, ON \rightarrow 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 → ON, ON → 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 \rightarrow LOCK, NEUTRAL \rightarrow 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	ВСМ	×		
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)
	RUN>URGENT		While turning power position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF		While turning power position from "ACC" to "OFF"
Vehicle Condition	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.

WORK SUPPORT

Revision: 2013 October

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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:0000000010286827

CONSULT APPLICATION ITEMS

Test item	n 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		
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).

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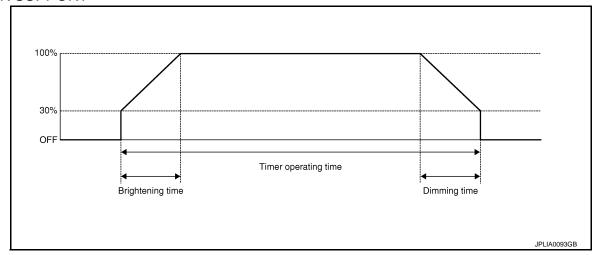
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INT LAMP

INT LAMP: CONSULT Function (BCM - INT LAMP)

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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 in	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 ro	om 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 LAWF	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-	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		
BATTERT OAVEROLT	Off	Without the 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.	(All doors closed)		
	MODE 6	120 sec.			
	MODE 7	150 sec.			
	MODE 8	180 sec.			
LIEAD LIQUE TIMED	MODE 1	10 sec.	Cata fallous and home function activation time		
HEAD LIGHT TIMER	MODE 2*2	30 sec.	Sets follow me home 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 twilig	tht 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) [V]	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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[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 DIIVI 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:0000000010286823

WORK SUPPORT

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

^{*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	
RAIN SENSOR [Off/LOW/HIGH/SPLASH/NG]	NOTE: This item is displayed, but cannot be monitored.	

ACTIVE TEST

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

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

WORK SUPPORT

Service item	Setting item	Setting	
	Lock Only	With locking only	
HAZARD ANSWER	Unlk Only	With unlocking only	Sets the hazard warning lamp answer back function
BACK	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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Monitor item [Unit]	Description
TURN SIGNAL R [On/Off]	Each quitab status that PCM datasts from the combination quitab reading function
TURN SIGNAL L [On/Off]	Each switch status that BCM detects from the combination switch reading function
HAZARD SW [On/Off]	The switch status input from the hazard switch
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-PANIC [On/Off]	Indicates [On/Off] condition of PANIC button of Intelligent Key

ACTIVE TEST

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

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 Item [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:0000000010286782

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

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Monitor item	Description		
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) of 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 touch BP I: Engine start operation indicator lamp indicate when CONSULT screen is touch 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 touch LK WN: Engine start operation indicator lamp indicate when CONSULT screen is touch			
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:0000000009751602

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:0000000009751603

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:0000000010286806

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 IDs that are registered.		
TP 1			
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.		

ACTIVE TEST

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

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

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WORK SUPPORT

Service item	Setting item		Setting
	MODE 1	30 min.	Sets the interior room lamp battery saver timer operating
	MODE 2	60 min.	time. NOTE:
ROOM LAMP TIMER SET	MODE 3	15 min.	The factor setting is 10 minutes. The setting cannot be returned to the factory setting, when the setting is changed once.
BATTERY SAVER SET	On [*]	With the e	exterior lamp battery saver function
DATTERT GAVER GET	Off	Without th	ne exterior lamp battery saver function

^{*:} Factory setting

DATA MONITOR

NOTE:

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

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: This item is displayed, but cannot be monitored
REQ SW-RL [On/Off]	NOTE: This item is displayed, but cannot be monitored
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR [On/Off]	Indicates [On/Off] condition of driver door UNLOCK status
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)

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Monitor item [Unit]	Description
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:0000000010286783

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:0000000010286787

WORK SUPPORT

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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	nis test is able to check horns operation. orns 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:0000000010286810

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:0000000009751609

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)	Deviatestian 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.

- 1. Check ID registration state and perform self-diagnosis.
- 2. 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

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 WARLED OW	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
DD WIDED 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
RR WIPER STOP	Rear wiper is in STOP position	Off
RR WIPER STOP	Rear wiper is not in STOP position	On
TURN SIGNAL R	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 LAIVIP SVV	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
HI BEAIN SW	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
HEAD LAWP SW 1	Lighting switch 2ND	On
HEAD LAMP SW/ 2	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
FAGGING OW	Lighting switch PASS	On
ALITO LIGHT SW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status	
ED EOC SW	Front fog lamp switch OFF	Off	_
FR FOG SW	Front fog lamp switch ON	On	_
DOOD CW DD	Driver door closed	Off	_
DOOR SW-DR	Driver door opened	On	_
DOOD CW AC	Passenger door closed	Off	_
DOOR SW-AS	Passenger door opened	On	_
DOOD OW DD	Rear RH door closed	Off	_
DOOR SW-RR	Rear RH door opened	On	_
D00D 0W DI	Rear LH door closed	Off	_
DOOR SW-RL	Rear LH door opened	On	_
2002 0111 211	Back door closed	Off	_
DOOR SW-BK	Back door opened	On	_
	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	=
	Other than driver door key cylinder LOCK position	Off	_
KEY CYL LK-SW	Driver door key cylinder LOCK position	On	-
	Other than driver door key cylinder UNLOCK position	Off	_
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On	=
	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	-
	Back door opener switch OFF	Off	_
TR/BD OPEN SW	While the back door opener switch is turned ON	On	_
	NOTE:	OII	_
TRNK/HAT MNTR	The item is indicated, but not monitored.	Off	
	Blower fan OFF	Off	_
FAN ON SIG	Blower fan ON	On	_
	Air conditioner OFF (A/C switch indicator OFF)	Off	
AIR COND SW	Air conditioner ON (A/C switch indicator ON)	On	- [
	LOCK button of the key is not pressed	Off	- I
RKE-LOCK	LOCK button of the key is pressed	On	_
	UNLOCK button of the key is not pressed	Off	_
RKE-UNLOCK	UNLOCK button of the key is pressed	On	_
DIVE TO OD	NOTE:		_
RKE-TR/BD	The item is indicated, but not monitored.	Off	
DIVE DANIC	PANIC button of the key is not pressed	Off	_
RKE-PANIC	PANIC button of the key is pressed	On	_
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 OTN (2-2-1)	Bright outside of the vehicle	Close to 5 V	_
OPTI SEN (DTCT)	Dark outside of the vehicle	Close to 0 V	_

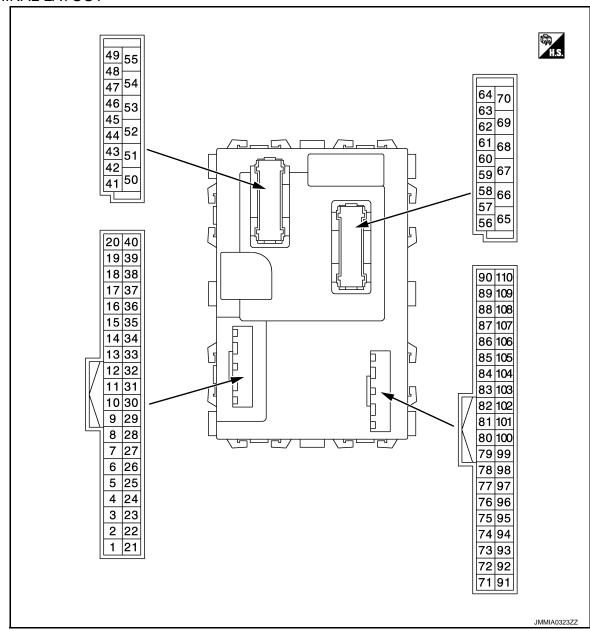
Monitor Item		Condition	Value/Status
ODTI SEN (EILT)	Bright outside of the vehicle	(Lighting switch AUTO)	Close to 5 V
OPTI SEN (FILT)	Dark outside of the vehicle (Close to 1.50 V	
OPTICAL SENSOR	NOTE: The item is indicated, but no	Off	
RAIN SENSOR	NOTE: The item is indicated, but no	t monitored.	Off
REQ SW -DR	Driver door request switch is	s not pressed	Off
	Driver door request switch is	pressed	On
REQ SW -AS	Passenger door request swit	,	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 (On	
CLUCH SW	The clutch pedal is not depre	Off	
OLOGIT SVV	The clutch pedal is depresse	On	
DDAVE CW 1	The brake pedal is not depre	essed	Off
BRAKE SW 1	The brake pedal is depresse	ed	On
	The brake pedal is depresse	ed when No. 38 fuse is blown	Off
BRAKE SW 2	The brake pedal is not depre fuse is normal	On	
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	- On	
	Selector lever in any position Control lever in any position	Off	
SFT PN/N SW	Selector lever in P or N po Control lever in neutral po	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		

[WITH INTELLIGENT KEY SYSTEM]

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
ENGINE STATE	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
PRMT ENG STRT	The engine start is prohibited	Reset
Tana Lito onti	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.	_
CONFIDMID	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
CONFINIVI IDS	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
CONTINUEDZ	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
OGNI INVITEDI	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
HOT ILLOIDTEILED	BCM detects non-registration key ID.	ID NG
TP 4	The ID of fourth key is not registered to BCM	Yet
17 4	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
	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
IS REGOTTET	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGOTTIN	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID NEGGT NET	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
WAKINING LAWP	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
		Ground Combination switch INPUT 4		Combination switch	Turn signal switch LH	
					Lighting switch PASS	(V) 15
3	Ground				Lighting switch 2ND	10 5 0 → +10ms PKIB4958J 1.0 V
(GR)	Oround		Input	(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 5
4 (RP)	Ground	Combination switch INPUT 3	Input	switch	Front wiper switch INT	
(BR)		INPUL3		(Wiper intermittent dial 4)	Lighting switch AUTO	→ →10ms PKIB4958J
						1.0 V

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

	nal No.	Description				Value
+ (Wire	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 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 lamp switch 1	switch 1 Input Stop lamp		OFF (Brake pedal is not depressed)	0 V
(R)	Cround	Cop lamp switch	Прис	switch	ON (Brake pedal is de- pressed)	Battery voltage
10 ^{*1} (W)	_	_	_		_	_
12 (Y)* ⁴ (GR)* ⁵	Ground	Door lock and unlock switch LOCK	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 0 10 ms 1.0 - 1.5 V
					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
					UNLOCK position	0 V
14	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P)	Cround		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)	2.34.14	ply	Carpat	-3o oc.	ON	5 V

	nal No. e color)	Description			0 150	Value	
+ (vvire	– COIOF)	Signal name	Input/ Output		Condition	(Approx.)	/
18 (V)	Ground	Receiver ground	Input	Ignition switch O	N	0 V	-
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	[
					Brake pedal: Not de- pressed	12 V	[
					ON	0 V	=
23 (R)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking (Ignition switch OFF)	(V) ₁₅ 10 5 0	(
					JPMIA0590GB 12.0 V	-	
					OFF	Battery voltage	-
24 ^{*2} (SB)	Ground	Dongle link	Input/ Output	Ignition switch O	FF	5 V	_
					Brake pedal: Depressed NOTE: Waveform varies each	(V) 15 10 5	
25 (LG)	Ground	NATS antenna amp.	Input/ Output	During waiting	time when brake pedal is depressed	→ ←40ms JMKIA6233JP	ŀ
					Brake pedal: Not depressed	12 V	
27 (W)	Ground	A/C ON	Input	A/C	OFF (A/C switch indicator: OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB	В
						1.0 - 1.5 V	(
					ON (A/C switch indicator:	0 V	-

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
28 (O)* ⁴ (LG)* ⁵	Ground	Blower fan switch	Input	Fan switch	Blower fan switch OFF Blower fan switch ON	0 V (V) 15 10 5 0 → 10ms PKIB4960J 7.0 - 8.0 V
29					OFF	12 V
(L)* ⁴ (SB)* ⁵	Ground	Hazard switch	Input	Hazard switch	ON	0 V
					Pressed	0 V
30 (L)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(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 ++10ms PKIB4960J 7.0 - 8.0 V
					sensor switch ON)	0 V
22		Combination with		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 → 10ms 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 • Wiper intermittent dial 3	++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	

Terminal No. (Wire color)		Description	Description		O a little	Value	
+	- -	Signal name	Input/ Output		Condition	(Approx.)	
				Ignition switch OFF (Remote keyless entry communication)	When operating either button on Intelligent Key	ñÒ12 V (V) 15 10 5 0 200 ms JMMIA0572GB	
38 (SB)	Ground	Receiver communication	Input/ Output	Ignition switch	Waiting	(V) 15 10 5 0 100 ms JMMIA0573GB	
	ON (T	ON (TPMS communication)	When receiving signal from tire pressure sensor	(V) 15 10 5 0 100 ms 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 7.0 - 8.0 V	
44 (LG)	Ground	Rear wiper stop position	Input	Ignition switch ON	ON (When back door opened) Rear wiper stop position Any position other than rear wiper stop position	0 V 12 V 0 V	
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	
		İ	I	l .			

	nal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(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		Back door request		Back door re-	ON (Pressed)	0 V
(Y)	Ground	switch	Input	quest switch	OFF (Not pressed)	12 V
53	Ground	Back door open	Output	Back door	OFF (Actuator is not activated)	0 V
(GR)	Cround	Buok door open	Output	Buok door	OPEN (Actuator is activated)	12 V
54	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
(P)	Cround	Tour Wipor	Catput	. toa. wipoi	ON (Activated)	12 V
55	Ground	Rear door UNLOCK	Output	Rear door	UNLOCK (Actuator is activated)	12 V
(G)	Cround	TOUR GOOD OFFICER	- Gaipai		Other then UNLOCK (Actuator is not activated)	0 V
56					np battery saver is activated. room lamp power supply)	0 V
(LG)* ⁴ (P)* ⁵	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		12 V

Terminal No. (Wire color)		Description	Description		Condition	Value	
+	-	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)	Glound	LOCK	Output	r assenger 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 Ignition switc	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s PKIC6370E	
				lataria ana an	OFF	6.0 V 12 V	
63 (BR)	Ground	Interior room lamp control	Output	Interior room lamp	ON	0 V	
				Ignition switch OI		3.6 V	
64 ^{*3}	One week	Constitution of the second	: 4		Engine stopped (Selector lever is in P position)	0 V	
(R)	Ground	Cranking request	input	Ignition switch ON	Engine stopped (Selector lever is not in P position)	12 V	
					Engine running	12 V	
65	Ground	All doors LOCK	Outout	All doors	LOCK (Actuator is activated)	12 V	
(V)	Giodila	All doors LOCK Outpu	N Output	Output	ruipui All doors	Other then LOCK (Actuator is not activated)	0 V
66	Ground	Driver door UN-	Outer : :4	Driver deer	UNLOCK (Actuator is activated)	12 V	
(W)	Ground	LOCK	Output	Driver 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 Ol	N	12 V	
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch Ol	FF	12 V	
70	Ground	Battery power sup-	Input	Ignition switch OI		Battery voltage	

Terminal No. (Wire color)		Description				Value
+ (vvire	-	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)	Giodila	switch (push switch)	Input	(push switch)	Not pressed	12 V
78	Ground	Driver door antenna		When the driver door request switch is operated with ignition switch ON		(V) 15 10 5 0 5 500 ms JMKIA5954GB
(P)	Ground	(+)	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 JMKIA6955GB
79	Ground	Ground Driver door antenna (-)	Output	When the driver door request	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 500 ms JMKIA5954GB
/9 (V)			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	

	nal No.	Description				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
(W)	Ground	ound na (+) Output	switch is operat- ed with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 500 ms JMKIA5955GB	F	

	nal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
83	Ground	Rear bumper anten-	Output	When the back door request	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 500 ms JMKIA5954GB
(LG)	Glound	na (-)	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
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)	Sidulid				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)	Ground				When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB

(Mire color)		Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	F
86		Room antenna 2 (+)		Ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 S JMKIA5951GB	(
(G) G	Ground	(Console)	Output	ON SWILLT	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB	F
87		Room antenna 2 (–) (Console)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB	ŀ
(R)	Ground				When Intelligent Key is in the antenna detection area	(V) 15 10 10 1 s JMKIA3839GB	ŀ
88 (V)		Luggage room antenna (+)		Ignition switch ON	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB	Bo
	Ground		Capat		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB	F

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
89	Ground	Luggage room an-	Output	Ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA5951GB
(LG)	Glound	tenna (-)	Output		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 (V)	Ground	ACC/ON indicator lamp	Output	Ignition switch	OFF ACC or ON	Battery voltage 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 5 10 ms JPMIA1554GB 6.0 - 7.0 V
93	0	Intelligent Key warn-	0	Intelligent Key	Sounding	0 V
(GR)	Ground	ing buzzer	Output	warning buzzer	Not sounding	12 V
96	Ground	Accessory relay	Output	Ignition switch	OFF	0 V
(BR)	Cround	control	Juipui	iginaon switch	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)	2	ON	When selector lever is not in P or N position	0 V
(00)		Starter relay control		Ignition switch	Clutch pedal is depressed	12 V
		(M/T models)	Output	ON	Clutch pedal is not de- pressed	0 V
98	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	12 V
(P)	2.34114	E/R) control	- Carpar		ON	0 V
99	Ground	Ignition relay (F/B)	Output	Ignition switch	OFF or ACC	0 V
(R)		control	•		ON	12 V

	nal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
100	Ground	Passenger door re-	Innut	Passenger door	ON (Pressed)	0 V
(P)	Giouna	quest switch	Input	request switch	OFF (Not pressed)	12 V
		Clutch interlock	lanut	Clutch interlock	OFF (Clutch pedal is not depressed)	0 V
101 (Y)	Ground	switch (M/T models)	Input	switch	ON (Clutch pedal is depressed)	Battery voltage
(· /		Ignition power sup- ply No.2 (Except M/T models)			OFF	0 V
			Output Ignition switch	Ignition switch	ON	12 V
		P/N position (Except M/T models)		Selector lever	P or N position	12 V
				Selector lever	Except P and N positions	0 V
102 (L)	Ground	Neutral switch (M/T	Input	put Ignition switch	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)	Giodila	blower relay control	Output	Igililon Switch	ON	12 V

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

Fail-safe INFOID:0000000009751612

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	В
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → 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	-

BCS-57 Revision: 2013 October 2014 JUKE

^{*2:} For Canada

^{*3:} With CVT

^{*4:} With front fog lamp

^{*5:} Without front fog lamp

Display contents of CONSULT	Fail-safe	Cancellation
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.
- 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:0000000009751613

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:0000000009751614

Р

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 INFORM	IATION >		[**********	ILLLIGLINI KL	I OIOILM,
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
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-79
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-80
U0415: VEHICLE SPEED	_	_	×	_	BCS-81
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-53
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-54
B2195: ANTI-SCANNING	×	_	_	_	SEC-55
B2196: DONGLE NG	×	_	_	_	SEC-56
B2198: NATS ANTENNA AMP	×	_	_	_	SEC-58
B2555: STOP LAMP	_	×	×	_	SEC-61
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-63
B2557: VEHICLE SPEED	_	×	×	_	SEC-65
B2562: LOW VOLTAGE	_	×	_	_	BCS-82
B2601: SHIFT POSITION	_	×	×	_	SEC-66
B2602: SHIFT POSITION	_	×	×	_	SEC-68
B2603: SHIFT POSI STATUS	_	×	×	_	SEC-71
B2604: PNP/CLUTCH SW	_	×	×	_	SEC-75
B2605: PNP/CLUTCH SW	_	×	×	_	SEC-77
B2608: STARTER RELAY	×	×	×	_	SEC-78
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-80
B2614: BCM	_	×	×	_	PCS-85
B2615: BCM	_	×	×	_	PCS-88
B2616: BCM	_	×	×	_	PCS-90
B2618: BCM	_	×	×	_	PCS-92
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-93
B261F: ASCD CNCL/CLTCH SW		×	×	_	SEC-83
B2620: NEUTRAL SW		×	×	_	SEC-85
B2621: INSIDE ANTENNA	_	×	_	_	DLK-51
B2622: INSIDE ANTENNA	_	×	_	_	DLK-53
B2623: INSIDE ANTENNA	_	×	_	_	DLK-55
B2626: OUTSIDE ANTENNA	_	×	_	_	DLK-59
B2627: OUTSIDE ANTENNA	_	×	_		DLK-57
B2628: OUTSIDE ANTENNA	_	×	_	_	DLK-61
B26E8: CLUTCH W	_	×	×	_	SEC-88
B26F1: IGN RELAY OFF	×	×	×	_	PCS-95
B26F2: IGN RELAY ON	×	×	×	_	PCS-97
B26F3: START CONT RLY ON	×	×	×	_	SEC-91
B26F4: START CONT RLY OFF	×	×	×		SEC-92
B26F6: BCM	_	×	×	_	PCS-99
B26F7: BCM	×	×	×	_	SEC-93
DZOI 1. DOIVI	^	^	^	_	<u>0L0-83</u>

[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-94	
B26F9: CRANK REQ CIR SHORT	_	×	×	_	<u>SEC-95</u>	C
B26FA: CRANK REQ CIR OPEN	_	×	×	_	SEC-97	
B26FB: CLUTCH SWITCH	_	×	×	_	<u>SEC-99</u>	
B26FC: KEY REGISTRATION	_	×	×	_	SEC-100	D
C1704: LOW PRESSURE FL	_	_	_	×		
C1705: LOW PRESSURE FR	_	_	_	×	WT-26	Е
C1706: LOW PRESSURE RR	_	_	_	×	<u>vv1-20</u>	_
C1707: LOW PRESSURE RL	_	_	_	×		
C1708: [NO DATA] FL	_	_	_	×		F
C1709: [NO DATA] FR	_	_	_	×	WT-28	
C1710: [NO DATA] RR	_	_	_	×	<u>VV 1-26</u>	
C1711: [NO DATA] RL	_	_	_	×		G
C1716: [PRESSDATA ERR] FL	_	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-31	Н
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u> </u>	
C1719: [PRESSDATA ERR] RL	_	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-33</u>	I

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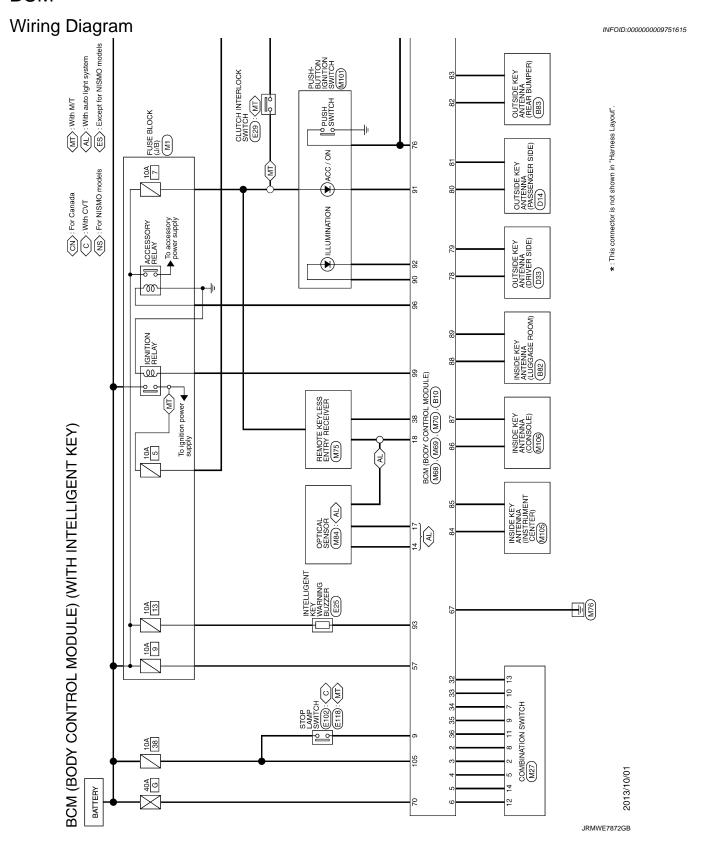
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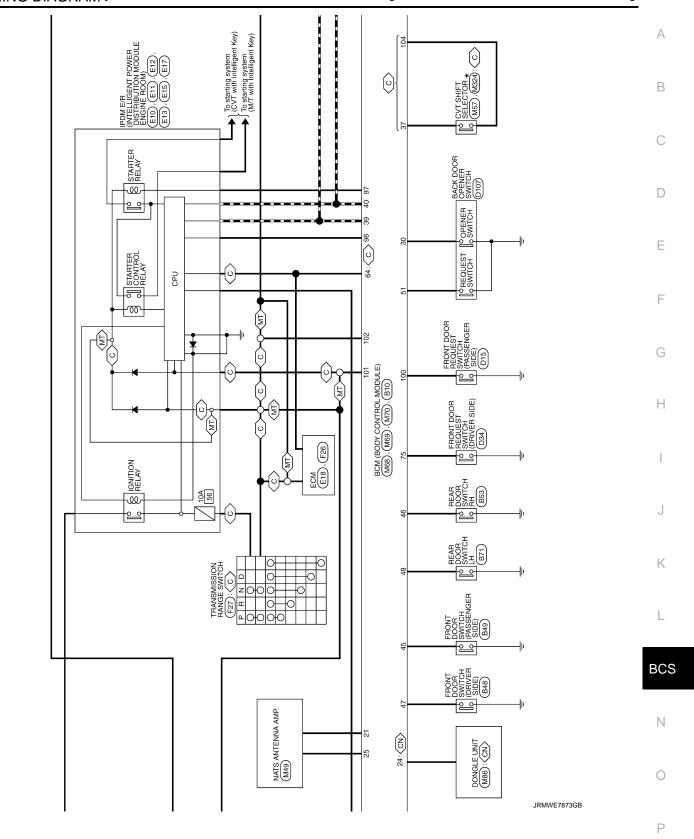
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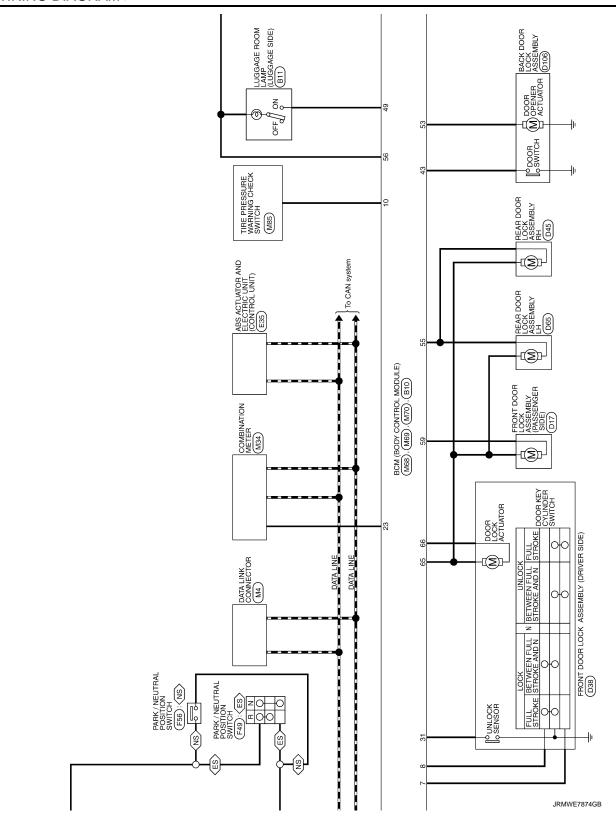
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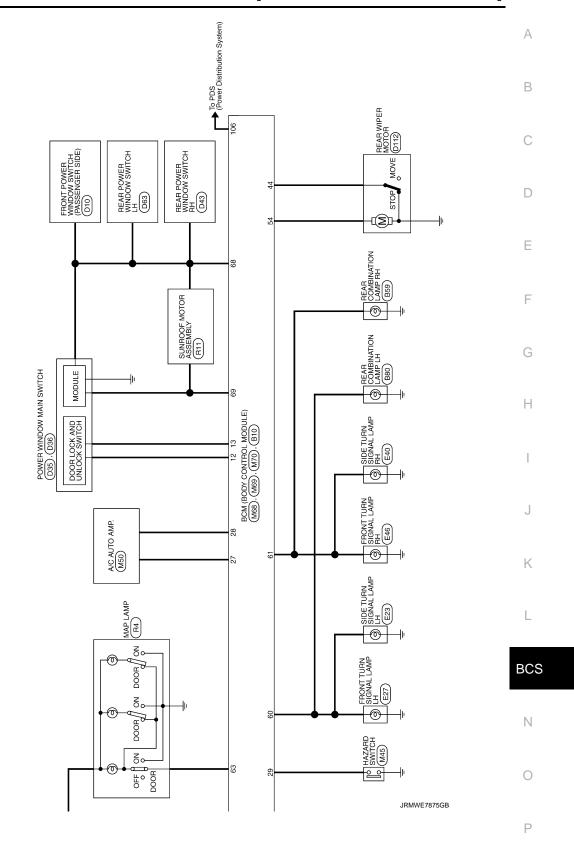
WIRING DIAGRAM

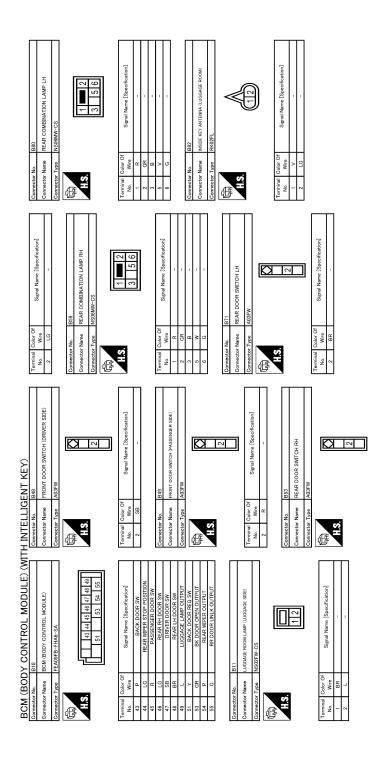
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Connector No. D34 Connector Nume FRONT DOOR PEQUEST SWITCH (DRIVER SDE) Connector Type RROBEGY RAME A.S.	Terminal Calor Of Signal Name Specification No. Wire 1 B - 2 LG - 2	Соглестог No. D35 Остоителеть Nums РОМЕЙ WINDOW MAIN SWITCH Остоителеть Тура NS 1679-CS Пр. В 10 112 1415 16	Terminal Color Of Signal Name [Specification] 1
Connector No. 017 Connector Name Front Door Lock Assailer Presence step Connector Type EDBFGY-RS	Terminal Color Of Signal Name [Specification] No. Wire V -	Connector No. D33 Connector Name OUTSIDE REY ANTENA, (DRIVER SIDE) Connector Type RRIQZMOY H.S.	Terminal Color Of Signal Name [Specification]
TH INTELLIGENT KEY) Connector Name OUTSIDE NET ANTENNA PASSENGER SIDE Connector Type RECEMBY H.S.	Terminal Color Of Signal Name [Specification] No. Wire	Connector No. 015 Connector Name input took scuds't serior excessions size. Connector Type RNOPCOY H.S.	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification] 1 P - -
BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY) Connector Name Outside KEY ATTENAN (REAR BUNNER) Connector Type RECORD. Terminal Color Of Signal Name [Specification] Wire	Connector No. Connector Name Real Forest Part Forest welcow serrice (PASSERVES SIZE) Connector Type NS308FW-CS 4 3 1 5 2	Terminal Color Of Signal Name [Specification]	

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BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY)	TH INTELLIGENT KEY) Consenter No. DA?	Commentor No DR3	Gonzantor No. D108
١.		e e	Connector Name
Connector Type NS03FW-CS	Connector Type NS08FW-CS	Connector Type NS08FW-CS	Connector Type NS04FW-CS
Œ	偃	Œ	E
(A)	43152	H.S. 4 3 1 5 2	4 3 2 1
Terminal Golor Of Signal Name [Specification] No. Wire	Terminal Color Of Signal Name [Specification] No.	Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification] No. Wire
17 R -			1 GR -
Н	2 BR –	2 BR –	2 B –
19 GR –	+		+
	Q t	- 4 G	4 B =
Connector No. D38	+	+	1
L			Connector No. D107
П	Connector No. D45	Connector No. D65	Connector Name BACK DOOR OPENER SWITCH
Connector Type E06FGY-RS	Connector Name REAR DOOR LOCK ASSEMBLY RH	Connector Name REAR DOOR LOCK ASSEMBLY LH	\neg
	Connector Type E06FGY-RS	Connector Type E06FGY-RS	1
v	đị.	4	
((1 2 3 4 5 6))	CHAT.	deta	H.S.
	H.S. (1987)		2345
le O			
No. Wire	Taminal Color Of	Tominal Color Of	Terminal Color Of Signal Name [Specification]
2 SB -	No. Wire Signal Name [Specification]	No. Wire Signal Name [Specification]	-
3 G	- ^ 2	^ -	2 B -
4 B -	- 5 g	2 G –	H
+			+
9			> a

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FO CR	₩	ł	Connector No. E17 Connector Name POWER DISTRIBUTION MODILE ENGINE	11	E	67 66 64	7.2 6.9 68		Terminal Color Of Signal Name [Specification] No. Wire	64 Y =	- T	H	69 BR – 72 W –		Connector No. E18	Connector Name ECM	Connector Type RH24FGY-RZ8-R-RH		124 120 116 112 108 104	127 123 119 116 111 103 99	┸		Terminal Color Of Signal Name [Specification]	+	100 L CAN COMMUNICATION LINE (CAN-H)	^	R ACCELERATOR	H .	104 R DATA LINK CONNECTOR	<u> </u>	B.
Connector No. F13	e	Connector Type TH12FW-NH	E	26 25	54 55 51 30	Terminal Color Of Signal Name [Specification]	23 SB -	Н	27 L =	30 ×	33 G	34 L -		П		Connector Type NS16FW-CS	4	1.5.	62 61 81 59 58 57	8		Terminal Color Of Signal Name [Specification] No. Wire	48 BR	50 G	51 L –	52 P -	+	+	20 20 20 20 21	╀	Н
MODULE) (WITH INTELLIGENT KEY)	Connector Name PROMIS PROFILE DISTRIBUTION MODILE ENGINE	Connector Type M06FB-LC	Œ	6		Terminal Golor Of Signal Name [Specification] No.	9 B/Y –	┨	Connector No. E12	Connector Name ROOMS ROOMED STRIBUTION MODULE ENGINE	Connector Type NS08FBR-CS	á	性	H.S.	22 20 19 18		Terminal Color Of Signal Name [Specification]	No. Wire 18 B/Y –	ч	19 W = [With front fog lamp] 20 G = [Without front fog lamp]	>	22 G –									
BCM (BODY CONTROL MODULE) (WI	Connector Name REAR WIPER MOTOR	Connector Type CEA03FW	Œ	123		Terminal Golor Of Signal Name [Specification] No.	1 R	- B		Connector No. E10	LOSENI POWER	Connector Type M06FW-LC			1			l erminal Color Of Signal Name [Specification] No. Wire	Н	9 P	┨										

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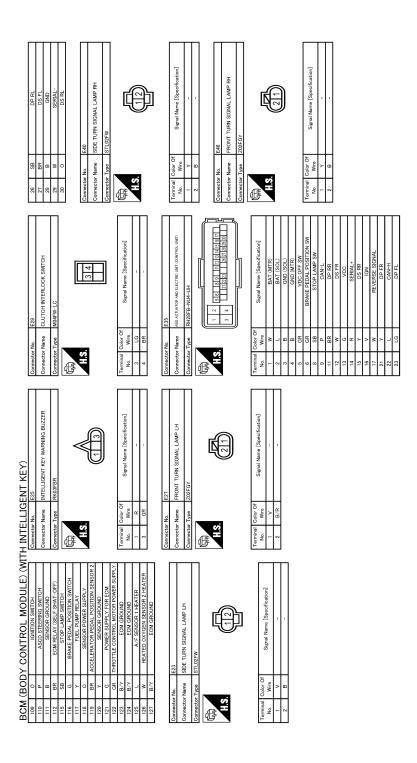
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Connector No. F56	Connector Name PARK / NEUTRAL POSITION SWITCH	Connector Type RK02FB	W SI		Terminal Color Of Signal Name [Specification]	Н	2 SB –		Connector No. M1	Connector Name FUSE BLOCK (J/B)	Connector Type L01FW-MC	1	雪	ПS.]]		Terminal Color Of		1 W =		Connector No. M4	Connector Name DATA LINK CONNECTOR	П	Connector Type BD16FW			1.3	4 5 6 7 8					
94 SB IGNITION SIGNAL NO.4	95 L EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE		Connector No. F27 Connector Name TRANSMISSION RANGE SWITCH Connector Type RK08FG		(7 6 4 8) (5 1 2 3)	7	Tarminal Color Of			2 BR = =	4 L	0 0	- 3			-	Connector No. F49	Connector Name PARK / NEUTRAL POSITION SWITCH	Connector Type FEA03FG-LC	á	医		((1 2 3))			lar		1 G	3 BR -					
MODULE) (WITH INTELLIGENT KEY) Connector No. F26	Connector Name ECM	Connector Type RH40FBR-RZ8-L-RH	(A)	90 86 82 74 66 62 58 85 81 77 73 69	Terminal Color Of Signal Name [Specification]	ū	50 B ECM GROUND (HIGH PRESSURE FUEL PUMP) 51 CP TUDOTTI E CONTROL MOTOR (OBEN)	BB	BR	54 R HIGH PRESSURE FUEL PUMP DRIVER BOWER SUPPLY 55 BR HIGH PRESSURE FUEL PUMP (HI)	>	58 G SENSOR POWER SUPPLY	J 3	B SE	BR	R CRAN	88 9	6) LG EXHAUST VALVE TIMING CONTROL POSITION SENSOR 68 Y SENSOR POWER SLIPPLY	L EVAP C	GR	73 BR TURBOCHARGER BOOST CONTROL SOLENOID VALVE 74 R SENSOR ORDINO	G THROT	W	>	79 BG BATTERY TEMPERATURE SENSOR	W INTAKE	R IGNITI	83 G G SENSOR 84 P FIFE TANK TEMPERATURE SENSOR	. O	TO TO	BR	V INTAKE	90 P IGNITION SIGNAL NO.3 92 R CRANKING ENABLE SIGNAL	
BCM (BODY CONTROL MODULE) (WITH Connector No.	Connector Name STOP LAMP SWITCH	Connector Type M04FW-LC	7 E	<u>-</u>	Terminal Color Of Signal Name [Specification]	1 W =	2 SB -	+		Connector No. E118	Connector Name STOP LAMP SWITCH	Т	Connector Type MUZFB-LC		•	20				le l	1	2 SB -												

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Connector No. M50	H.S.	Terminal Color Of Signal Name [Specification]	2 LG IN-VEHICLE SENSOR SIGNAL 3 V INTAKE SENSOR SIGNAL	4 GR AMBIENT SENSOR SIGNAL		7 P CAN-L 8 W INTAKE DOOR MOTOR PBR POWER SUPPLY	<u>a</u> (10 R SENSOR GROUND 11 SB IGNITION POWER SUPPLY		GR POWER	DIG BIO	15 Y A/C ON SIGNAL 17 BR A/MIX DRIVE SIGNAL 4		W	20 L A/MIX DRIVE SIGNAL 1	SB INTAKE	30 B GROUND	9	>	œ	a. ;	39 Y MODE DRIVE SIGNAL 2	40 V MODE DRIVE SIGNAL I					7		
31 P A.C. AUTO AND CONNECTION RECOGNITION SIGNAL 36 LO MANALAL MODE SIGNAL, With Front Reg lamp 38 Y MANALAL MODE SIGNAL, Without Front Reg lamp 37 K MON-MANALAL MODE SIGNAL, Without Front Reg lamp 38 P ALTERNATIOR SIGNAL, Without Front Reg lamp 38 P ALTERNATIOR SIGNAL, Without Front Reg lamp		Connector lype IKU4+W		3 1 2 4		Terminal Color Of	No. Wire Signal Name [Specification]	2 SB	3 <		4 GR – [Without front fog lamp]		Connector No. M49	Connector Name NATS ANTENNA AMP.	Т	٦.		K		1 2 3 4			Terminal Color Of		1 V BAT	2 P CLK		4 B GND		
Commeter No. Commeter No. Commeter No. Commeter Name Commeter Type TH40EW-NH	(8) (8) (8) (8) (8) (8) (8) (8) (8) (8)	Color Of Signal Nar	L CAN-H	V VEHICLE SPEED SIGNAL (8-PULSE) (With front fog lamp)	- _©	BR FUEL LEVEL SENSOR SIGNAL R AIR BAG SIGNAL	P - [Without front fog lamp]	O SEATBELTBUG	»	SB	9 1	GR ILLUMINATION CONTROL SIGNAL [With front fog lamp] GR ILLUMINATION CONTROL SIGNAL [Without front fog lamp]	œ	V MANUAL MOD	ACC POWER SUPPLY MANUAL MODE SHIFT DOWN SIGNAL (With food fee lump)	> >	9	W WASHER LEVEL	œ	GR	5 6	+	m ac		† L FUEL LEVEL SENSOR GROUND	5 B VDC GROUND	V PADDL	7 LG BATTERY POWER SUPPLY 3 GB IGNITION SIGNAL	I G PASSENGER SEA'	,
BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY)		COMBINATION SWITCH Terminal No.	TH16FW-NH		1 2 3	9 10 11 12 13		x	Signal Name [Specification]	П		WASHER (FR) [With front fog lamp] 13	[Without front fog lamp]		IGN [With front fog lamp] 15		17 OUTPUT 3	2				001P011 20	OUTPUT 2		24	25	26	27	57	24
BCM (BOD) Terminal Color Of No. Wire 4 B 5 B 6 L 7 W		Connector No.	ctor Type	Œ	H.S.			Terminal Color Of	Wire	П	Т	3 2	3 W	4 SB	4 դ Տ	╁	۷ /	Н	9	+	+	+	2 41	\cdot						

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BCM	(BO	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY)	NI H	ITELLI	GENT KEY)							
Connector No.	ır No.	M57	7	-	KEY CYL UNLOCK SW	Terminal	0	Simul Nama [Snarification]	96	BR	ACC RELAY CONT	
Company Money	Momo	GOT SHIET SELECTOR	80	2	KEY CYL LOCK SW	No.	Wire	Olgriei Name Lopeomoanori	97	SB	STARTER RELAY CONT	
Collingo	alle I		6	а	STOP LAMP SW 1	26	97	INT ROOM LAMP PWR SPLY [With front fog lamp]	86	۵.	IGN RELAY (IPDM E/R) CONT	
Connector Type	ır Type	TH16FW-NH	10	M C	-	26	۵	INT ROOM LAMP PWR SPLY [Without front fog lamp]	66	œ	IGN RELAY (F/B) CONT	
	ŀ		-	12 GR	DOOR LK & UNLK SW LOCK [Without front fog lamp]	22	_	BAT (FUSE)	100	a	PUSH SW	
Œ	_		=	12 Y	DOOR LK & UNLK SW LOCK [With front fog lamp]	29	SB	PASS DOOR UNLK OUTPUT	101	>	CLUTCH INTERLOCK SW	
主	_	<u> </u>	=	13 BR	DOOR LK & UNLK SW UNLOCK	09	>	TURN SIG LH OUTPUT	102	_	NEUTRAL SW	
\ \ \ \	,	1	-	14 P	OPTICAL SENS	61	*	TURN SIG RH OUTPUT	104	SB	CVT SHIFT SELECT PWR SPLY	
		8 7 6 5 4 3 2 1	5	2	RR DEFOGGER SW	63	ä	INT ROOM LAMP CONT	105	>	STOP LAMP SW 2	
		13 12 11 10 9	11	7 R	OPTICAL SENS PWR SPLY	64	œ	REVERSE SW	106	>	BLWR RELAY CONT	
			18	>	RECEIVER GND	65	>	ALL DOOR LOCK OUTPUT				
			21	а -	NATS ANT AMP.	99	*	DR DOOR UNLK OUTPUT				
Terminal	Terminal Color Of		23	3	SECURITY IND LAMP CONT	49	а	GND	Connector No.	lo. M75	15	
No	Wire	Signal Name [Specification]	54	SB SB	DONGLE LINK	89	L	PW PWR SPLY (IGN)			Cut and Cut an	
-	۵		25	97	NATS ANT AMP.	69	۵	PW PWR SPLY (BAT)	Connector Name		MOTE RETLESS ENTRY RECEIVER	
2	8	-	56	┞		70	>	BAT (F/L)	Connector Type	Γ	TH04FW-NH	
8	BB		27	H	A/C SW [With front for lamp]					1		
4	В		27	<u>-</u>	A/C SW [Without front fog lamp]				Œ			
ın	>		28	9	BIO	Connector No.	No.	M70	季			
۳	9		8	ł	╁				~		ζ	
,	5 >		3 8	╀	HAZARD SW DWith front for lamp]	Connect	Connector Name	BCM (BODY CONTROL MODULE)			ָּרָקּ בּיִּרָּ	
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			37	+								
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			于	J		82	g	ROOM ANT 1-				
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2	_	COMBI SW INPUT 5				88	ΓG	LUGGAGE ROOM ANT-	-	×	_	
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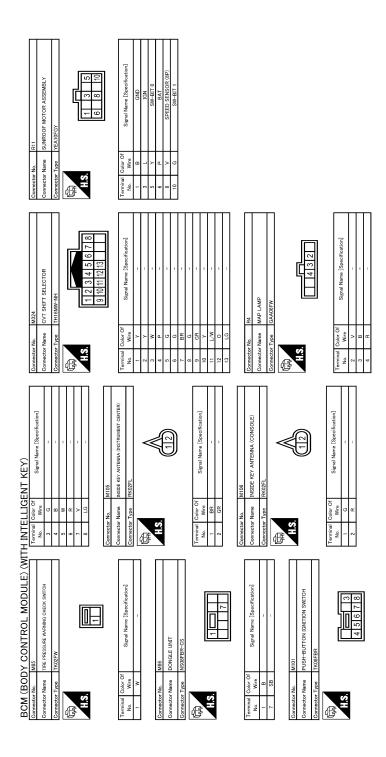
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ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

< BASIC INSPECTION >

>> WORK END

[WITH INTELLIGENT KEY SYSTEM]

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BASIC INSPECTION Α ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT Description INFOID:0000000009751616 BEFORE REPLACEMENT When replacing BCM, save or print current vehicle specification with CONSULT configuration before replace-NOTE: If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after D replacing BCM. AFTER REPLACEMENT **CAUTION:** Е 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. F If you set incorrect "WRITE CONFIGURATION", incidents might occur. When replacing BCM, perform the system initialization (NATS) (if equipped). Work Procedure INFOID:0000000009751617 1. SAVING VEHICLE SPECIFICATION Н (P)CONSULT Configuration Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-76, "Description". NOTE: If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing BCM. >> GO TO 2. 2.replace $_{ m BCM}$ K Replace BCM. Refer to BCS-90, "Removal and Installation". L >> GO TO 3. 3.WRITING VEHICLE SPECIFICATION **BCS** (P)CONSULT Configuration Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to BCS-76, "Work Procedure". Ν >> GO TO 4. 4.INITIALIZE BCM (NATS) (IF EQUIPPED) Perform BCM initialization. (NATS)

CONFIGURATION (BCM)

Description INFOID:0000000009751618

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"

(P)CONSULT Configuration

Perform "WRITE CONFIGURATION - Config file".

>> WORK END

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

CONSULT Configuration

- 1. Select "WRITE CONFIGURATION Manual selection".
- Identify the correct model and configuration list. Refer to BCS-77, "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.

NOTF:

If items are not displayed, touch "SETTING". Refer to <u>BCS-77, "Configuration list"</u> for written items and setting value.

4. Select "SETTING".

CAUTION:

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

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

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:0000000009751620

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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 models240kPa: AWD models	

^{⇔:} Items which confirm vehicle specifications

EXCEPTFOR NISMO GRADE MODELS

SETTIN	NG 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

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

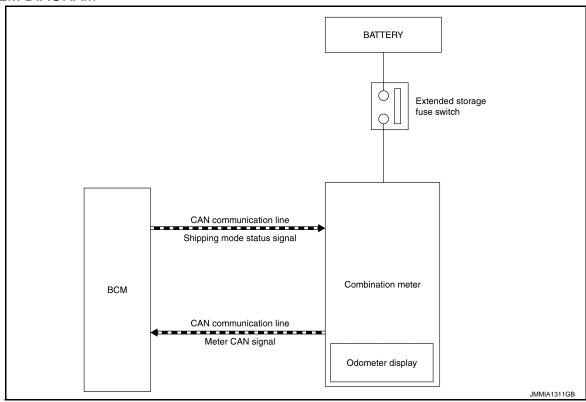
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SHIPPING MODE CANCEL OPERATION

Description INFOID:000000009751621

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-89, "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

1. SHIPPING MODE CANCEL OPERATION

- 1. Turn ignition switch OFF.
- 2. Push in (switch on) the extended storage fuse switch. Refer to PG-94, "How To Check".
- 3. Turn ignition switch ON.
- 4. Turn ignition switch OFF and wait at least 2 seconds.

>> GO TO 2.

2. SHIPPING MODE CANCEL CHECK

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

>> WORK END

[WITH INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM

Description INFOID:0000000009751623

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

Diagnosis Procedure

INFOID:0000000009751625

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-46, "Intermittent Incident".

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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:0000000009751627

1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to BCS-90, "Removal and Installation".

U0415 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

U0415 VEHICLE SPEED

Description INFOID:0000000009751628

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

DTC Logic INFOID:0000000009751629

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

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

Is any DTC detected?

YES >> Refer to BCS-81, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

${f 1}$.abs actuator and electric unit (control unit) self-diag results

Perform "Self-Diagnostic Result" of ABS actuator and electric unit (control unit) with CONSULT. Refer to BRC-39, "CONSULT Function" (without EPS), BRC-39, "CONSULT Function" (with EPS).

Is any DTC detected?

YES >> Repair or replace the malfunctioning part.

NO >> Replace BCM. Refer to BCS-90, "Removal and Installation".

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B2562 LOW VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2562 LOW VOLTAGE

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION

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

Is any DTC detected?

YES >> Refer to BCS-82, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009751632

1. CHECK POWER SUPPLY CIRCUIT

Check BCM power supply circuit. Refer to BCS-83, "Diagnosis Procedure".

Is the circuit normal?

YES >> Replace BCM. Refer to BCS-90, "Removal and Installation".

NO >> Repair the malfunctioning part.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000009751633

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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
battery power suppry	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
В	CM		(Approx.)
Connector	Terminal	Ground	
M69	70	Glound	Battery voltage
WOS	57		Ballery Vollage

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.

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Revision: 2013 October BCS-83 2014 JUKE

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000009751634

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.

Cuatam	ВС	CM	Combination switch		0
System	Connector	Terminal	Connector	Terminal	Continuity
OUTPUT 1		36		11	
OUTPUT 2		35	•	9	
OUTPUT 3	M68	34	M27	7	Existed
OUTPUT 4		33	•	10	
OUTPUT 5		32	•	13	

Does continuity exist?

YES >> GO TO 2.

NO >> Repair harnesses or connectors.

2. CHECK OUTPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

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

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> GO TO 3.

3.CHECK BCM OUTPUT VOLTAGE

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

		Terminals					
System	(+)		(-)	Voltage			
System	BCM			(Approx.)			
	Connector	Terminal					
OUTPUT 1		36					
OUTPUT 2		35	0	(V) 15			
OUTPUT 3		34	Ground	10 10 10 10 10 10 10 10 10 10 10 10 10 1			
OUTPUT 4	M68	33		0			
OUTPUT 5		32		PKIB4960J 7.0 - 8.0 V			

Is the measurement value normal?

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> Replace combination switch.

NO >> Replace BCM. Refer to <u>BCS-90, "Removal and Installation"</u>.

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COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000009751635

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	BCM		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.
- Check voltage between BCM harness connector and ground.

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

Is the measurement value normal?

Yes >> Replace BCM. Refer to BCS-90, "Removal and Installation".

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

>> Replace combination switch.

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COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH 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.

Malfunction 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	All Item	ıs		1				1	1	К
		I	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		
А	Combination switch OUTPUT 1 circuit			
В	Combination switch OUTPUT 2 circuit			
С	Combination switch OUTPUT 3 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to BCS-84, "Diagnosis Procedure".		
D	Combination switch OUTPUT 4 circuit	ing part. Relor to <u>boo on, bragnosis i resedure</u> .		
Е	Combination switch OUTPUT 5 circuit			
F	Combination switch INPUT 1 circuit			
G	Combination switch INPUT 2 circuit			
Н	Combination switch INPUT 3 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-86, "Diagnosis Procedure".		
ļ	Combination switch INPUT 4 circuit	- Paris 1000 to <u>200 to 1200 to 1000 t</u>		
J	Combination switch INPUT 5 circuit			
K	ВСМ	Replace BCM. Refer to BCS-90, "Removal and Installation".		
L	Combination switch	Replace combination switch.		

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NORMAL OPERATING CONDITION

Description INFOID:0000000000751637

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-78, "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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Revision: 2013 October BCS-89 2014 JUKE

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REMOVAL AND INSTALLATION

BCM

Removal and Installation

INFOID:0000000009751638

NOTE:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-76, "Description".

REMOVAL

- 1. Remove instrument lower panel. Refer to IP-13, "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:

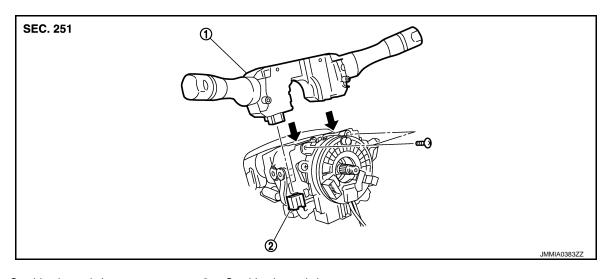
Be sure to perform "WRITE CONFIGURATION" when replacing BCM. Or not doing so, BCM control function does not operate normally.

NOTE:

Be sure to perform the system initialization (NATS) when replacing BCM. Refer to BCS-75, "Work Procedure".

COMBINATION SWITCH

Exploded View



1. Combination switch

2. Combination switch connector

Removal and Installation

REMOVAL

- 1. Remove steering column cover. Refer to IP-13, "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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PRECAUTION

PRECAUTIONS

Precautions for Removing of Battery Terminal

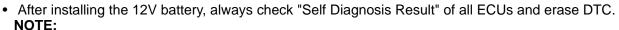
 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

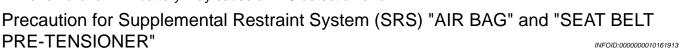
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

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

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



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



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.

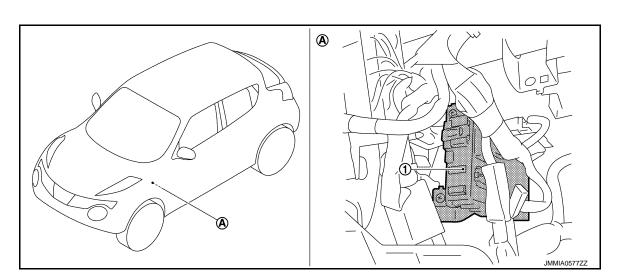
- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious 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.

INFOID:0000000010161910

SYSTEM DESCRIPTION

COMPONENT PARTS BODY CONTROL SYSTEM

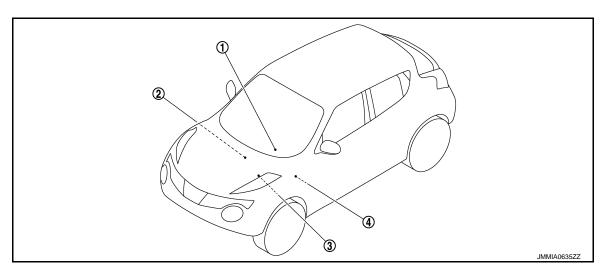
BODY CONTROL SYSTEM: Component Parts Location



- **BCM**
- Behind of instrument lower panel LH (Left side)

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM: Component Parts Location INFOID:0000000009751643



- Combination meter
- Multi display unit Refer to DMS-3, "Component Parts Location".
- IPDM E/R Refer to PCS-37, "Component Parts Location".

BCM Refer to BCS-93, "BODY CONTROL SYSTEM: Component Parts Location".

BCS-93 Revision: 2013 October **2014 JUKE**

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SYSTEM BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: System Description

INFOID:0000000009751644

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-95, "COMBINATION SWITCH READING SYSTEM : System Diagram"		
Signal buffer system		BCS-99, "SIGNAL BUFFER SYSTEM : System Diagram"		
Power consumption control system		BCS-100, "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 sy	stem	EXL-12, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Diagram"		
Parking, license plate, side maker and ta	ail 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-7, "FRONT WIPER AND WASHER SYSTEM : System Diagram"		
Rear wiper and washer system		WW-10, "REAR WIPER AND WASHER SYSTEM : System Diagram"		
Rear window defogger system		DEF-7, "WITHOUT AUTO A/C : System Diagram"		
Air conditioning control system (Manual	A/C)	HAC-104, "System Diagram"		
Warning chime system		WCS-6, "WARNING CHIME SYSTEM : System Diagram"		
Power door lock system		DLK-184, "System Diagram"		
Remote keyless entry system		DLK-186, "System Diagram"		
Back door opener system		DLK-188, "System Diagram"		
Nissan anti-theft system (NATS)		SEC-133, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS : System Diagram"		
Valida and the same	Theft warning alarm	OFO 404 IIV/FILIOLE OFOLIDITY OVOTEM O 44 D		
Vehicle security system	Panic alarm	SEC-134, "VEHICLE SECURITY SYSTEM : System Diagram"		
Power window system		PWC-8, "POWER WINDOW SYSTEM : System Diagram"		

[WITHOUT INTELLIGENT KEY SYSTEM]

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 → 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

- 1. Pass more than 1 minute 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.

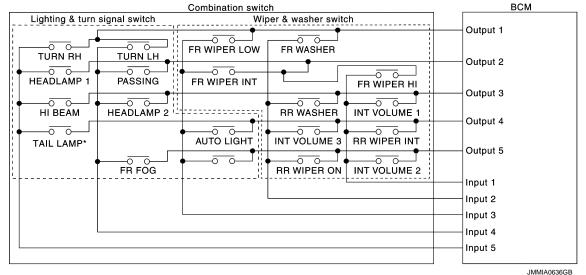
NOTE:

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

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NOTE

Revision: 2013 October BCS-95 2014 JUKE

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

[WITHOUT INTELLIGENT KEY SYSTEM]

COMBINATION SWITCH READING SYSTEM: System Description

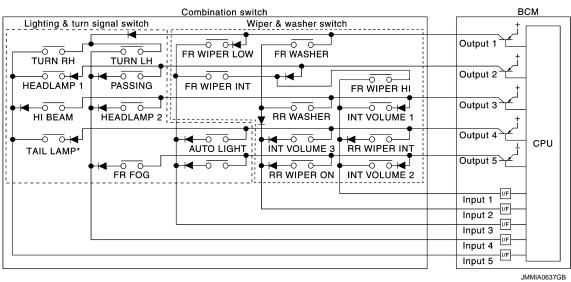
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OUTLINE

- 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:

Combination switch INPUT-OUTPUT system list

	11011 11 11 01 0011 01 010				
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

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

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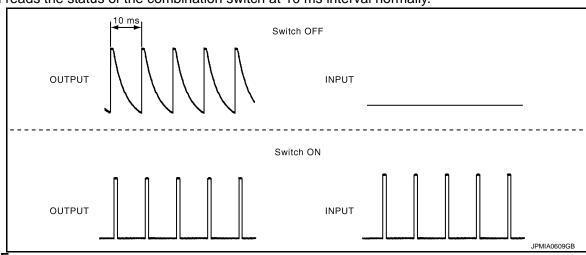
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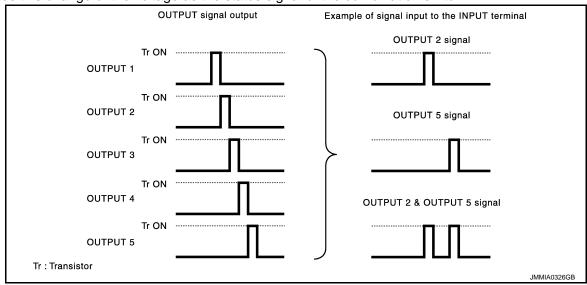
BCM reads the status of the combination switch at 10 ms interval normally.



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.

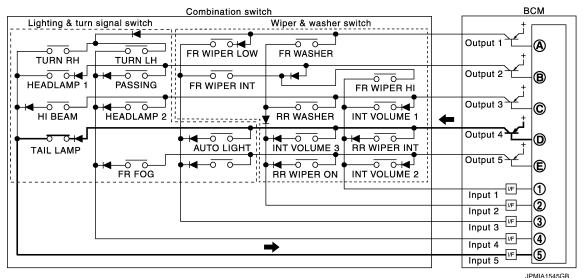


Operation Example

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

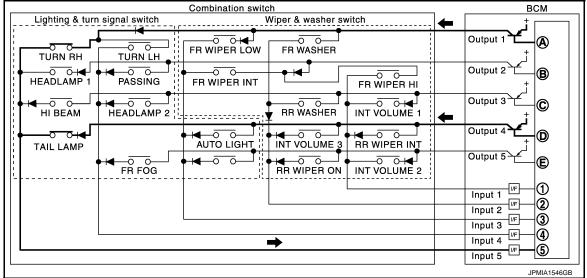
• The circuit between OUTPUT 4 and INPUT 5 is formed when the TAIL LAMP switch is turned ON.



- 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				

[WITHOUT INTELLIGENT KEY SYSTEM]

Wiper intermittent	Switch status		
dial position	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-7, "FRONT WIPER AND WASHER SYSTEM: System Description".

SIGNAL BUFFER SYSTEM

SIGNAL BUFFER SYSTEM: System Diagram



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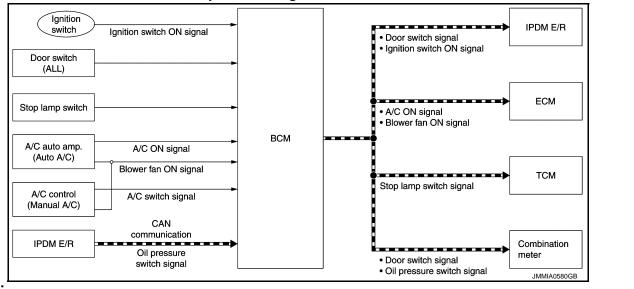
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NOTE

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

SIGNAL BUFFER SYSTEM: System Description

INFOID:0000000009751649

OUTLINE

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

SIGNAL TRANSMISSION FUNCTION LIST

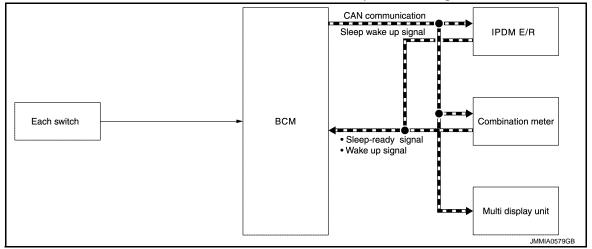
Signal name	Input	Output	Description
Ignition switch ON signal	Ignition switch	IPDM E/R (CAN)	Inputs the ignition switch signal and transmits it with CAN communication.
Door switch signal	Any door switch	Combination meter (CAN) IPDM E/R (CAN)	Inputs the door switch signal and transmits it with CAN communication.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

[WITHOUT INTELLIGENT KEY SYSTEM]

POWER CONSUMPTION CONTROL SYSTEM: System Diagram

INFOID:0000000009751650



POWER CONSUMPTION CONTROL SYSTEM: System Description

INFOID:0000000009751651

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.

SYSTEM

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

CAN sleep condition	BCM sleep condition	Α
 Receiving the sleep-ready signal (ready) from all units 1 minute after turning ignition switch OFF Theft warning alarm and panic alarm: Not operation Warning chime: Not operation Stop lamp switch: OFF 	 Interior room lamp battery saver: Time out* RAP system: No communication Nissan anti-theft system (NATS): Not operation 	В
 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 	Remote keyless entry receiver communication status: No communication Tire pressure monitoring system (TPMS): Stop	C

NOTE:

*: Refer to INL-8, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM: System Description" 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.

Wake-up	condition

BCM wake-up condition	CAN wake-up condition
Back door opener switch: OFF → ON	 Receiving the sleep-ready signal (Not-ready) from any units Ignition switch: OFF → ACC, ON Key switch: OFF → ON, ON → OFF Hazard switch: OFF PASSING 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 LH: 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: OF 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

BCS-101 Revision: 2013 October **2014 JUKE**

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DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000009751652

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 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)

INFOID:0000000010286784

WORK SUPPORT

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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

DIAGNOSIS SYSTEM (BCM)

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Test item	Description
DOOR LOCK	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:0000000010286826

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.
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:0000000010286828

CONSULT APPLICATION ITEMS

Test item	Diagnosis mode	Description
BUZZER	Data Monitor	Displays BCM input data in real time.
DOZZER	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.	

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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)

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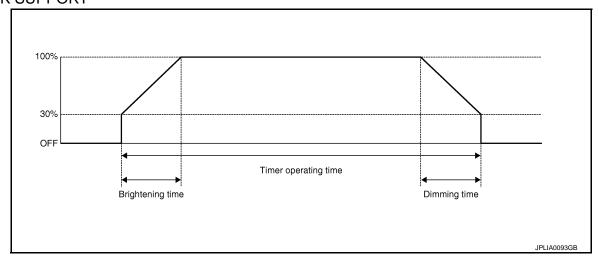
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WORK SUPPORT



Service item	Setting item	Setting	
	MODE 1	0 sec.	
ROOM LAMP TIMER SET	MODE 2	7.5 sec.	Sata the interior room lamp ON time (Timer energting 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 interior room lamp timer function	
SET I/E D-UNLER INTOON	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.	

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[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

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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

MULTI REMOTE ENT

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

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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	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		

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DIAGNOSIS SYSTEM (BCM) [WITHOUT INTELLIGENT KEY SYSTEM]

< 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)

INFOID:0000000010286817

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	
ILL DELAY SET	MODE 1	NOTE: This item is displayed but is not operated	
	MODE 2		
	MODE 3		
	MODE 4		
	MODE 5		
	MODE 6		
	MODE 7		
	MODE 8		
HEAD LIGHT TIMER	MODE 1	10 sec.	Sets follow me home function activating time
	MODE 2*	30 sec.	
AUTO LIGHT LOGIC SET	MODE 1	NOTE: This item is displayed but is not operated	
	MODE 2		
	MODE 3		
	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.

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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:0000000010286824

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]	Fook quitab status that DOM indeed from the combination quitab reading function
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.

^{*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.	
RAIN SENSOR [Off/LOW/HIGH/SPLASH/NG]	NOTE: This item is displayed, but cannot be monitored.	

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:0000000010286818

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]	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

ACTIVE TEST

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< 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)

INFOID:0000000010286780

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	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:0000000009751662

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.

DIAGNOSIS SYSTEM (BCM) [WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

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:0000000009751663

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:0000000010286808

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:0000000010286822

WORK SUPPORT

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[WITHOUT INTELLIGENT KEY SYSTEM]

Service item	Setting item		Setting
	MODE 1	30 min.	Sets the interior room lamp battery saver timer operating
	MODE 2	60 min.	time. NOTE:
ROOM LAMP TIMER SET	MODE 3	15 min.	The factor setting is 10 minutes. The setting cannot be returned to the factory setting, when the setting is changed once.

^{*:} 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.
	On	Outputs the interior room lamp power supply.

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

TRUNK: CONSULT Function (BCM - TRUNK)

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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	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:0000000010286807

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:0000000010286811

DATA MONITOR

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

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< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

SIGNAL BUFFER: CONSULT Function (BCM - SIGNAL BUFFER)

INFOID:0000000009751669

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:
	On	This item is indicated, but not tested.

PANIC ALARM

PANIC ALARM: CONSULT Function (BCM - PANIC ALARM)

INFOID:0000000010286809

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 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-132, "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.

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Monitor item (Unit)	Remarks	А			
AIR PRESS FL (kPa, kg/cm2 or Psi)					
AIR PRESS FR (kPa, kg/cm2 or Psi)	Tire pressure	В			
AIR PRESS RR (kPa, kg/cm2 or Psi)	The pressure	С			
AIR PRESS RL (kPa, kg/cm2 or Psi)					
ID REGST FL1 (Yet, Done)		D			
ID REGST FR1 (Yet, Done)	Registration ID	E			
ID REGST RR1 (Yet, Done)	Registration in				
ID REGST RL1 (Yet, Done)		F			
WARNING LAMP (On/Off)	Low tire pressure warning lamp	G			
BUZZER (On/Off)	NOTE: This item is displayed, but cannot be use this item.				
ACTIVE TEST MODE		Н			
NOTE: After completing the work below, perform 1. Check ID registration state and perform 2. Erase the self-diagnosis result history	orm self-diagnosis.	I			
Item	Description				

Item	Description	.1
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.	
FLASHER	Turn signal lamps can be turned ON arbitrarily.	L
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.

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< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

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.

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
IGN ON SW	Ignition switch ON	On
KEN ON 6/W	Mechanical key is removed from key cylinder	Off
RET ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK 3W	Press door lock/unlock switch to the lock side	On
CDI TINI OCK 8/M	Door lock/unlock switch does not operate	Off
CDL UNLOCK 3W	Press door lock/unlock switch to the unlock side	On
DOOD SW/ DD	Driver's door closed	Off
DOOK SW-DK	Driver's door opened	On
DOOD SW AS	Passenger door closed	Off
DOOR SW-RR	Passenger door opened	On
IGN ON SW KEY ON SW CDL LOCK SW CDL UNLOCK SW DOOR SW-DR	Rear RH door closed	Off
DOOK SW-KK	Rear RH door opened	On
DOOD SW/ DI	Rear LH door closed	Off
DOOK SW-KL	Rear LH door opened	On
	Back door closed	Off
BACK DOOR SW	Back door opened	On
	Driver door is locked	Off
LOCK STATUS	Driver door is unlocked	On
ACC ON SW	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
KEVLESS LOCK	"LOCK" button of key fob is not pressed	Off
RETLESS LOCK	"LOCK" button of key fob is pressed	On
KEAI ESS TIVII OCK	"UNLOCK" button of key fob is not pressed	Off
RETLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
SHOCK SENSOR	NORMAL	
KEY CYLLK CW	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SVV	Driver door key cylinder LOCK position	On
KEY OVELINEOW	Other than driver door key cylinder UNLOCK position	Off
NET UTL UN-SVV	Driver door key cylinder UNLOCK position	On
VEHICLE SPEED	While driving	Equivalent to speed ometer reading
DEAD DEE CM	Rear window defogger switch OFF	Off
KEAK DEF SW	Rear window defogger switch ON	On

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
REVERSE SW CAN	NOTE:	Off
NEVERSE SW CAN	The item is indicated, but not used.	On
TAIL LAMP SW	Lighting switch OFF	Off
AIL LAWIP SVV	Lighting switch 1ST	On
TD FOO OW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
2110141 5 0341	The seat belt (driver side) is fastened. [Seat belt switch (driver side) OFF]	Off
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) ON]	On
FRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
	Ignition switch OFF	Off
ACC SW	Ignition switch ACC or ON	On
(YLS TRNK/HAT	NOTE: The item is indicated, but not monitored.	Off
KEYLESS PANIC	NOTE: The item is indicated, but not monitored.	Off
JI DEAM CW	Lighting switch OFF	Off
HI BEAM SW	Lighting switch HI	On
IEAD LAND OV.	Lighting switch OFF	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Lighting switch OFF	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
AUTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
FURNI GIONIAL R	Turn signal switch OFF	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI OLONIAL :	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
	Parking brake switch is OFF	Off
PKB SW	Parking brake switch is ON	On
	Engine stopped	Off
ENGINE RUN	Engine running	On
OPTI SEN (DTCT)	NOTE: The item is indicated, but not monitored.	0 V
OPTI SEN (FILT)	NOTE: The item is indicated, but not monitored.	0 V
LIG SEN COND	NOTE: The item is indicated, but not monitored.	OFF
GN SW CAN	Ignition switch OFF or ACC	Off
GN SW CAN	Ignition switch ON	On
	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On

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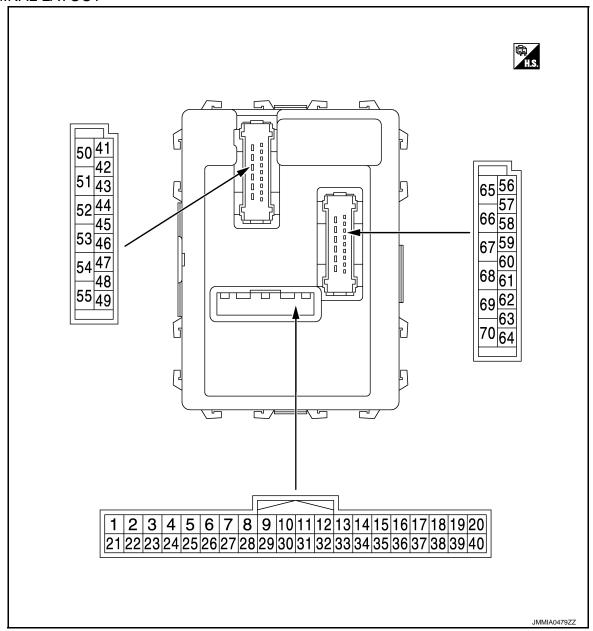
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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
FR WIPER LOW	Front wiper switch OFF	Off
K WIF ER LOW	Front wiper switch LO	On
R WIPER INT	Front wiper switch OFF	Off
N WIFEN INT	Front wiper switch INT	On
R WASHER SW	Front washer switch OFF	Off
-K WASHER SW	Front washer switch ON	On
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
FR WIPER STOP	Any position other than front wiper stop position	Off
-K WIFER STOP	Front wiper stop position	On
RR WIPER ON	Rear wiper switch OFF	Off
KR WIPER ON	Rear wiper switch ON	On
D WIDED INT	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
ND WA OUED OW	Rear washer switch OFF	Off
R WASHER SW	Rear washer switch ON	On
ND WIDED OTOD	Rear wiper stop position	Off
RR WIPER STOP	Other than rear wiper stop position	On
RAIN SENSOR	NOTE:	Off
CAIN SENSOR	The item is indicated, but not monitored.	Oil
IAZARD SW	Hazard switch OFF	Off
	Hazard switch ON	On
FAN ON SIG	Blower control dial OFF	Off
	Other than blower control dial OFF	On
AIR COND SW	A/C switch OFF	Off
	A/C switch ON	On
HERMO AMP	Ignition switch ON	Off
TIETUNO 7 UNI	Evaporator is extremely low temperature	On
R DEF SW	Other than A/C mode defroster ON position	Off
K BEI OW	A/C mode defroster ON position	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off
RNK OPNR SW	NOTE: The item is indicated, but not monitored.	Off
RNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off
HOOD SW	Close the hood	Off
	Open the hood	On
RANSPONDER	Other than the ignition switch is ON by key registered to BCM.	Off
	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
DIL PRESS SW	NOTE: The item is indicated, but not monitored.	Off
BRAKE SW	Brake pedal is not depressed	Off
DIVALE OW	Brake pedal is depressed	On

TERMINAL LAYOUT



PHYSICAL VALUES

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

< ECU DIAGNOSIS INFORMATION >

Signal name Output Output Output All switches OFF (Wiper intermittent dial 4) Front washer switch ON (Wiper intermittent dial 5) Wiper intermittent dial 6 Rear wiper switch ON (Wiper intermittent dial 4) Wiper intermittent dial 6 All switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6 Wiper intermittent dial 4 All switches OFF Wiper intermittent dial 6 Wiper intermittent dial 4 All switches OFF Wiper intermittent dial 4 Front wiper switch ON (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) Rear wiper switch ON (Wiper intermittent dial 4) Front wiper switch INT (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) Front wiper switch INT (Wiper intermittent dial 4) Rear wiper switch ON (Viper intermittent dial 4) Front wiper switch INT (Wiper intermittent dial 4) Rear wiper switch ON (Viper intermittent dial 4) Front wiper switch INT (Viper intermittent dial 4) Front wiper switch INT (Viper intermittent dial 4) Front wiper switch ON (Viper intermittent dial	erminal No.		1	0 199	Value
Ground Combination switch Input Switch SG) Ground Combination switch Input Combination switch INPUT 2 Combination Switch Switc	Wire color)	Signal name		Condition	(Approx.)
Ground Combination switch INPUT 2 Input Combination switch INPUT 2 Input Combination switch INPUT 2 Input Combination switch Input Input Combination switch Input Input Combination switch Input Input Combination switch Input Input Input Combination switch Input In				(Wiper intermittent dial 4) Front washer switch ON	0 V
Ground Combination switch INPUT 2 Input Combination switch INPUT 2 Input Combination switch S				Rear washer switch ON	15
Rear wiper switch ON (Wiper intermittent dial 4) All switches OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) Wiper intermittent dial 3 (All switches OFF) 1.0 The combination switch in the condition below with all switches OFF or the condition below w			Input	with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5	
All switches OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) Wiper intermittent dial 3 (All switches OFF) Combination switch Input Combination switch Any of the condition below with all switches OFF Wiper intermittent dial 1				Rear wiper switch ON	10 5 0
Ground Combination switch INPUT 1 Ground Combination switch INPUT 1 Ground Combination switch INPUT 1 Combination switch Input Combination switch INPUT 1 Combination switch Input Switch Input Combination switch Input Input Switch Input Input Switch Input In					0 V
Ground Combination switch INPUT 1 Input Combination switch				(Wiper intermittent dial 4) Rear wiper switch INT	15
Ground Combination switch INPUT 1 Input Combination switch Switch Switch Any of the condition below with all switches OFF • Wiper intermittent dial 1					++10ms PKIB4958J
			Input	with all switches OFF	10 ha
Any of the condition below with all switches OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7				with all switches OFF • Wiper intermittent dial 6	10 5 0

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
7 (L)	Ground	Door key cylinder switch UNLOCK	Input	Door key cylinder switch	NEUTRAL position UNLOCK position	(V) 15 10 5 0 10ms PKIB4960J 7.0 - 8.0 V
8 (R)	Ground	Door key cylinder switch LOCK	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 5 0 +-10ms 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	Stop lamp switch	input	switch	ON (Brake pedal is depressed)	Battery voltage
10	Ground	Rear window defog-	Input	Rear window	OFF (Not pressed)	12 V
(W)		ger switch		defogger switch	ON (Pressed)	0 V
11	Ground	Ignition switch ACC	Input	Ignition switch O		0 V
(L)			•	Ignition switch ACC 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 10 ms JPMIA0012GB 1.0 - 1.5 V
					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 10 ms 1.0 - 1.5 V
1					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	Λ																																																												
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	Α																																																												
					Insert mechanical key into ignition key cylinder	0 V	В																																																												
					Remove mechanical key from ignition key cylinder (Any door opened)	5 V	С																																																												
19 (BR)	Ground	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 JPMIA033BJP	D E																																																												
					Insert mechanical key into ignition key cylinder	0 V	F																																																												
							Waiting	(V) 6 4 2 0	G																																																										
20 (G)			Ignition switch OFF			PIIB7728J (V) 6	Н																																																												
																																																																	Signal receiving	0	J
21	0	NATO automo a succ	Input/	Just after insertin	g ignition key in key cylinder	Pointer of tester should move	K																																																												
(P)	Ground	NATS antenna amp.	Output	Other than above	Э	0 V																																																													
					ON	0 V																																																													
23 (R)	Ground	Security indicator lamp	Input	Security indicator lamp	Blinking (Ignition switch OFF)	(V) 15 10 5 0 1 s	BC N																																																												
						11.3 V																																																													
					OFF	12 V	0																																																												
24* ² (SB)	Ground	Dongle link	Input/ Output		_	_	_																																																												
25	Ground	NATS antenna amp.	Input/		g ignition key in key cylinder	Pointer of tester should move	Р																																																												
(LG)	Ciodila	C amornia amp.	Output	Other than above		0 V																																																													
26 (B)	Ground	Thermo control amp.	Input	Ignition switch O		0 V																																																													
(D)				Evaporator is ext	tremely low temperature	12 V																																																													

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
27 (W)	Ground	A/C switch	Input	A/C switch	OFF	(V) 15 10 5 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					OFF	12 V
(L)	Ground	Hazard switch	Input	Hazard switch	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 ********************************

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

	nal No. color)	Description			0 111	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	$\overline{\Box}$
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V	ВС
32 (LG)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4) Rear wiper switch ON	(V) 15	Е
					(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	10 5 0 → 10ms PKIB4956J 1.0 V	F
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J	Н
33 (Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	7.0 - 8.0 V	J
					Rear wiper switch INT (Wiper intermittent dial 4)	10	K
					Any of the condition below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	0 → +10ms PKIB4958J 1.2 V	L

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	nal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
					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)	5
					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
0.5				Combination	All switches OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
35 (R)	Ground	Combination switch OUTPUT 2	Output	switch (Wiper intermit-	Lighting switch 2ND	
				tent dial 4)	Lighting switch PASS	(V) 15 10
					Front wiper switch INT	5
					Front wiper switch HI	PKIB4958J
36	0	Combination switch	0.4.4	Combination switch	All switches OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
(P)	Ground	OUTPUT 1	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	40
				.,	Turn signal switch LH	(V) 15 10
					Front wiper switch LO Front wiper switch MIST	5 0
					Front washer switch ON	++10ms PKIB4958J
						1.2 V

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			O a little a	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
37	Ground	Key switch	Input	Insert mechanic der	al key into ignition key cylin-	Battery voltage
(GR)	Cround	rtoy ownor	прас	Remove mechai cylinder	nical key from ignition key	0 V
38	Ground	Ignition switch ON	Input	Ignition switch C		0 V
(R)			-	Ignition switch C	DN	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	12 V
(LG)	Ground	sition	Input	ON	Any position other than rear wiper stop position	0 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 >

	nal No.	Description				Value
+ (Wire	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 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 7.0 - 8.0 V
					ON (When back door opened)	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 PRIC6370E
					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 (GR)	Ground	Back door open	Output	Back door	OFF (Actuator is not activated) OPEN (Actuator is activat-	0 V
					ed)	12 V
53 (P)	Ground	Rear wiper	Output	Ignition switch ON	Rear wiper switch OFF Rear wiper switch ON	0 V 12 V
55	Ground	Luggage room lamp	Output	Luggage room	OFF	12 V
(L)	Citatia	Eaggage room lamp	σαιραί	lamp	ON	0 V

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	value (Approx.)
56	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	12 V
(W)	Giodila	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	vated.	p battery saver is not acti- rior room lamp power sup-	12 V
60	Ground	Interior room lamp	Output	Interior room	OFF	12 V
(BR)	Cround	control	Catput	lamp	ON	0 V
63	Ground	A/C indicator	Output	A/C indicator	OFF	12 V
(SB)	Oroana	7 V O III alcatol	Catpat	7 (O Indicator	ON	0 V
65 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	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)	Giound	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)	Giodila	All doors LOCK	σαιραί	All doors	Other then LOCK (Actuator is not activated)	0 V
70 (B)	Ground	Ground	Output	Ignition switch O	N	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 → 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.

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^{*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.
- 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.

DTC Inspection Priority Chart

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

Priority	DTC
1	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-147
U1010: CONTROL UNIT (CAN)	_	_	BCS-148
B2190: NATS ANTENNA AMP	×	_	SEC-166

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

CONSULT display	Fail-safe	Tire pressure monitor warning lamp ON	Reference
B2191: DIFFERENCE OF KEY	×	_	<u>SEC-169</u>
B2192: ID DISCORD BCM-ECM	×	_	SEC-170
B2193: CHAIN OF BCM-ECM	×	_	<u>SEC-171</u>
B2195: ANTI SCANNING	×	_	<u>SEC-172</u>
B2196: DONGLE NG	×	_	SEC-173
C1704: LOW PRESSURE FL	_	×	
C1705: LOW PRESSURE FR	_	×	WT-26
C1706: LOW PRESSURE RR	_	×	<u>vv1-20</u>
C1707: LOW PRESSURE RL	_	×	
C1708: [NO DATA] FL	_	×	
C1709: [NO DATA] FR	_	×	WT 00
C1710: [NO DATA] RR	_	×	<u>WT-28</u>
C1711: [NO DATA] RL	_	×	
C1716: [PRESS DATA ERR] FL	_	×	
C1717: [PRESS DATA ERR] FR	_	×	WT 24
C1718: [PRESS DATA ERR] RR	_	×	<u>WT-31</u>
C1719: [PRESS DATA ERR] RL	_	×	
C1729: VHCL SPEED SIG ERR	_	×	<u>WT-33</u>
C1735: IGN CIRCUIT OPEN	_	_	BCS-149

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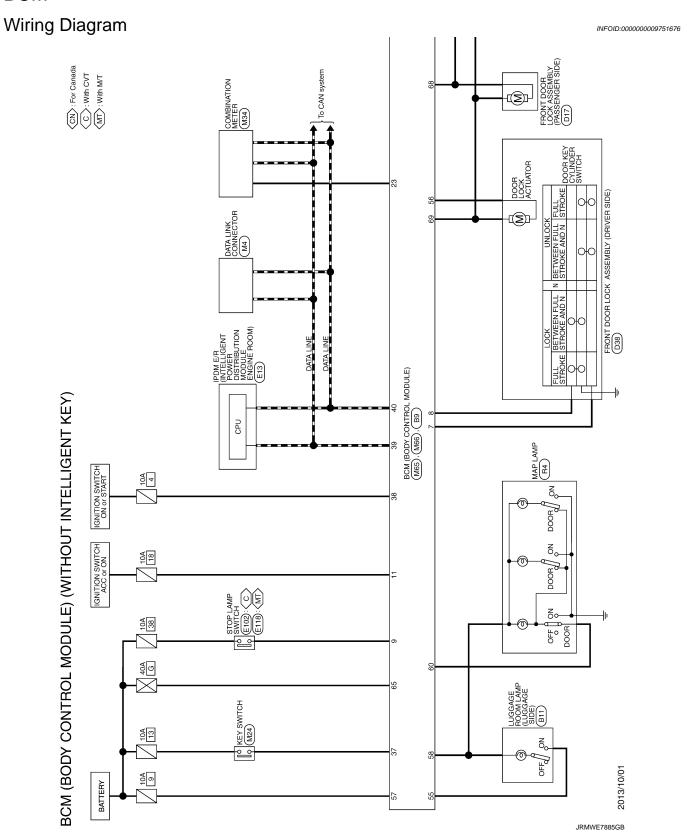
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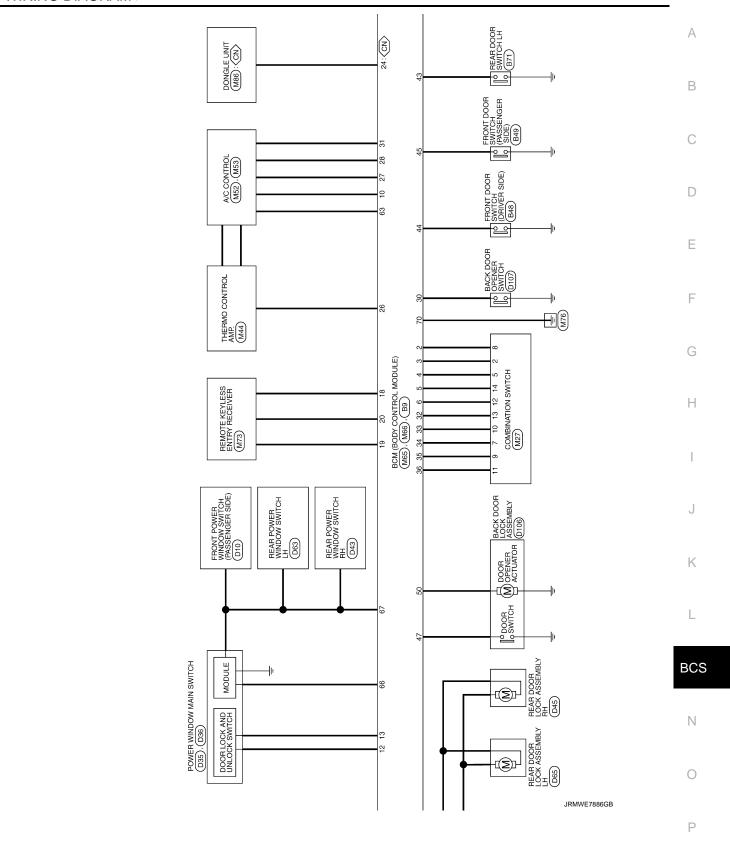
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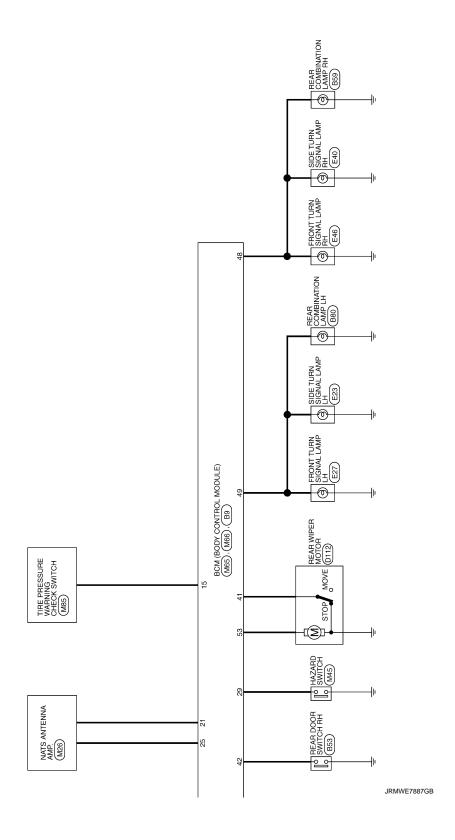
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WIRING DIAGRAM

BCM







_		_		г			_		7			_	_	7						_	_		_	\Box		
Connector No. B80	_ e	Connector Type NS06MW-CS	HS. 1 6 6 1		Terminal Color Of Signal Name [Specification] No. Wire		2 GR = -	- >	- C 9		Connector No. D10	Connector Name FRONT POWER WINDOW SMITCH (PASSENGER SIDE)	Т	Connector Type NSU8FW-CS			7 2 2	71		Terminal Color Of Signal Name [Specification]	No. wire	Н	3 SB <	\mathbb{H}		
Terminal Color Of Control Color Of Control Color Of Control Control Color Of Control C	No. Wire Signal Name [Specification]		Commetter No. 859 Commetter Name REAR COMBINATION LAMP RH Commetter Type NSOMMY-CS	[c] [t]	3 2 2			lar	No. Wire	2 GR -	3 B	5 W	- 5 9		Connector No. B71	Connector Name REAR DOOR SWITCH LH	Connector Type A03FW	4	□	H.S.	2		Tominal Color Of	Ferminal Color Of Signal Name [Specification] No. Wire		
MODULE) (WITHOUT INTELLIGENT KEY) Connector No. 1848	g g	Connector Type A03FW	(X) □ (1)		Terminal Color Of Signal Name [Specification] No. Wire	2 SB -		Connector No. B49	Connector Name FRONT DOOR SWITCH (PASSENGER SIDE)	Connector Type A03FW		K	K	_	7		E		2 R = -		Т		Connector Type A03FW		5	
BCM (BODY CONTROL MODULE) (WI's connector No. 189	BCM (BODY CONTROL MODULE)	FEA09FB-FHA6-SA	41 42 43 44 45 47 48 49 50 55		Signal Name [Specification]	REAR WIPER STOP POSITION	REAR RH DOOR SW REAR LH DOOR SW	DRIVER DOOR SW	PASSENGER DOOR SW	TURN SIG RH OUTPUT	TURN SIG LH OUTPUT	BK DOOR OPEN OUTPUT	REAR WIPER OUTPUT	LUGGAGE LAMP OUTPUT		B11	LUGGAGE ROOM LAMP (LUGGAGE SIDE)	NS02FW-CS] -	711		Signal Name [Specification]	1	
BCM (BOD)	ę	Connector Type F	配。 H.S.		Terminal Color Of No. Wire	+	42 LG	Н	45 A	+	49	Н	53 P	22			Connector Name	Connector Type	£	· 手	QI.			Terminal Color Of No. Wire	2	

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BCM (B	(BOL	BCM (BODY CONTROL MODULE) (WI Connector No. D17 1	DL MODULE) (WITHOUT INTELLIGENT KEY) Commetten No. 1536	Connector No. D43	Connector No. D63
Connector Name	or Name	FRONT DOOR LOCK ASSENBLY (PASSENGER SIDE)	Connector Name POWER WINDOW MAIN SWITCH	Connector Name REAR POWER WINDOW SWITCH RH	Connector Name REAR POWER WINDOW SWITCH LH
Connecto	or Type	Connector Type E06FGY-RS	Connector Type NS03FW-CS	Connector Type NS08FW-CS	Connector Type NS08FW-CS
偃				Œ	Œ
Ξ.	rá.		H.S.	H.S.	H.S.
	l		17 18 19	4 3 1 5 2	4 3 1 5 2
Terminal	Terminal Color Of	f Signal Name [Specification]	Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification]
S c	>		+	+	+
9	>	-	Н	BR	H
			19 GR =) × ×	× € 4
Connector No.	ır No.	D35		1	+
Connecto	Connector Name	POWER WINDOW MAIN SWITCH	Connector No. D38		
, and	l and		Connector Name FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)	Connector No.	Connector No DES
Connects	l ype	No lot W-Co	Connector Type E06FGY-RS	1	
Œ	_		4		
ŧ		7654 - 321		Connector Type E06FGY-RS	Connector Type E06FGY-RS
2	5	10 1	SH SH	1	
		1 7	(12 3 4 5 6)	·	٤
				N N N N N N N N N N N N N N N N N N N	
Terminal	Ferminal Color Of	f Signal Name [Specification]			
Š.	Wire		Terminal Color Of Signal Name [Specification]		
- 2	a 85		+	Terminal Color Of	Terminal Color Of
г	_	1	2 SB -	No. Wire Signal Name [Specification]	No. Wire Signal Name [Specification]
4	۵	-	3 G -	- · ·	
2	۸	-	4 B -	9	2 G –
9	BR	-	2		
7	LG	1	6 R		
œ	BG	-			
6	g	1			
9	_	1			
15	97				
14	5	-			
12	BR	1			
16	W				

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Connector No. E40 Connector Name SIDE TURN SIGNAL LAMP RH Connector Type STLOSFW H.S.	Terminal Color Of Signal Name [Specification] 1	
Connector No. E23 Connector Name SIDE TURN SIGNAL LAMP LH Connector Type STLUSPN H.S.	Terminal Color Of Signal Name Specification No. Wive No. No.	
MODULE) (WITHOUT INTELLIGENT KEY) SEMBLY Connector Name REAR WIPER MOTOR Connector Type OCEAUSEW Connector Type OCEAUSEW 1211	Terminal Color Of Signal Name Specification	
BCM (BODY CONTROL MODULE) (WIT Connector No. Dittle RACK DOOR LOCK ASSEMBLY Connector Type INSOFFW-CS (4 3 2 1)	Terminal Color Of Signal Name [Specification] 1	

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14 G OUTPUT 2 Commercer No. M04	Connector Name COMBNATION METER Connector Type TH40FN-NH	N N N N N N N N N N	Terminal Color Of Signal Name [Specification]	7	2 P CAN-L A V VEHICLE SPEED SIGNAL (8-PULSE) With front foe lamp)	4 Y VEHICLE SPEED SIGNAL (8-PULSE) [Without front fog lamp]	5 G PADDLE SHIFTER UP SWITCH SIGNAL		8 P - [Without front fog lamp]	8 Y = [With front tog lamp]	۳	10 SB PARKING BRAKE SWITCH SIGNAL	+	13 CD ILLUMINATION CONTROL SYGNAL [With front fog lamp]	<u> </u>	14 V MANUAL MODE SHIFT UP SIGNAL [With front fog lamp]	7	16 O MANUAL MODE SHIFT DOWN SIGNAL [With front fog lamp]	E (>	18 R SECURITY SIGNAL	19 GR AMBIENT SENSOR SIGNAL	20 LG AMBIENT SENSOR GROUND [With front fog lamp]	20 R AMBIENT SENSOR GROUND [Without front fog lamp]	21 B GROUND	22 B GROUND	23 B GROUND	+	25 B VDC GROUND 26 V PADDI E SHIETER DOWN SWITCH SIGNAL	. 9]
Connector No. M28 Connector Name NATS ANTENNA AMP. Connector Type THUSPIL-4H	H3.	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification] 1 V BAT	2 P CLK 3 B GND	4 LG DATA		Connector No. M27	Connector Name COMBINATION SWITCH	Connector Type TH16FW-NH	1	F	ľ	4	7 8 9 10 11 12 13 14		Terminal Color Of	No. Wire Specification	^	1 0 WASHER (RR) [With front fog lamp]	2 GR WASHED (ED) (Acts for land	^	4 SB IGN [Without front fog lamp]	4 W IGN [With front fog lamp]	5 BR OUTPUT 3	GND GND	7 V 0UTPUT 3	8 L OUTPUT 5	9 R INPUT 2	10 Y INPUT 4	12 W OIITPIL 1	97
ITHOUT INTELLIGENT KEY) Connector No. M4 Connector Name DATA LINK CONNECTOR Connector Type BD16FW	H.S.	Terminal Color Of Signal Name (Specification)	2 B	7 W 7	8 LG -	16 Y -		Connector No. M24	Connector Name KEY SWITCH	Connector Tune TK06MGV	7			<u>[</u>	1 2			Terminal Color Of Signal Name [Specification]	t	2 ×										
BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY) Connector No. E102 Connector No. Mut Connector No. Mu	H.S. 314	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification]	2 SB -	4 LG -		Connector No. E118	Connector Name STOP LAMP SWITCH	Connector Type M02FB-LC	1	性	<u> </u>	2 1			Terminal Color Of			2 SB -												

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39 L CAN-H 40 P CAN-L	Connector No. M68 Connector Name BCM (BODY CONTROL MODULE) Connector Type FEA09FW-FHA6-SA	H.S. [66] [67] [68] [69] [70]	Terminal Color Of		56 W DR DOOR UNLK OUTPUT 57 RAT (FILSE)	IN IN	BR	SB	65 Y BAI (F/L) 66 P PW PWR SPLY (BAT)		SB PASS	69 V ALL DOOR LOCK OUTPUT	70 B GND		Connector No. M73	Connector Name REMOTE KEYLESS ENTRY RECEIVER	Connector Type TK04FW		[]		112 4				<u></u>	No. Wire	GND COONA			
16	Connector No. Miss Connector Name BCM (BODY CONTROL MODULE) Connector Type TH40FW-NH	2 3 4 5 6 7 8 9 10 11 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	Color Of Signal Name [Specification] Name Specification]		3 GR COMBLSW INPUT 4		6 W COMBI SW INPUT 1	7 L KEY CYL UNLOCK SW	9 R STOPLAMP SW	RE	11 L IGN SW ACC	12 Y DOOR LK & UNLK SW LOCK	+	15 W – 18 V RECEIVER GND	19 BR RECEIVER PWR SPLY	20 G RECEIVER COMM	R SECL	SB	25 LG NATS ANT AMP.	. *	28 O BLOWER FAN SW	29 L HAZARD SW	L BK	9	97	> :	34 V COMBISW OUTPUT 3	: 0.	GR	38 R IGN SW ON
MODULE) (WITHOUT INTELLIGENT KEY) SIGNAL 4 GR - (Without front log lamp) Constant lower front with lamp) Constant lower front log lamp)	Connector No. M52 Connector Name Av.C CONTROL. Commerciar Type COAFW	16 17 18 19	Terminal Color Of Signal Name [Specification]	16 L	2 0 0	Н		Г	Т	Connector Name A/C CONTROL	Connector Type SEA09FB-SHA6			9 13 12 11 10 14	2 7 6 0	+ 6 0 1 7 /		100	No. Wire	2 SB -	3 W	4 R -	- ·	6 GR -	+	+	m 3	╀	+	13 L
M (BODY CONTROL GR IGNITION LG PASSENGER SEAT BELT WARN	23	Connector No. M44 Connector Name THERMO CONTROL AMP.		•	H.S.	2 4 5			lerminal Color Of Signal Name [Specification] No. Wire	+	2 BR -	3 B -	4 R	5 L		Т	Connector Name HAZARD SWITCH	Connector Type TK04FW	4	- F-57	ΠĿ	3 1 2 4			**************************************	Terminal Color Of Signal Name [Specification]	+	- C	3 \	4 B - [With front fog lamp]

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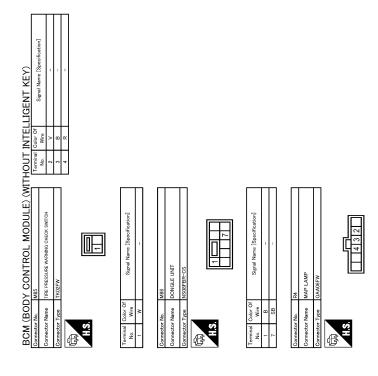
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ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

< BASIC INSPECTION >

Perform BCM initialization. (NATS)

>> WORK END

[WITHOUT INTELLIGENT KEY SYSTEM]

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BASIC INSPECTION Α ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT Description INFOID:0000000009751677 BEFORE REPLACEMENT When replacing BCM, save or print current vehicle specification with CONSULT configuration before replace-NOTE: If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after D replacing BCM. AFTER REPLACEMENT **CAUTION:** Е 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. F If you set incorrect "WRITE CONFIGURATION", incidents might occur. When replacing BCM, perform the system initialization (NATS) (if equipped). Work Procedure INFOID:0000000009751678 1. SAVING VEHICLE SPECIFICATION Н (P)CONSULT Configuration Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-144, "Description". NOTE: If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing BCM. >> GO TO 2. 2.replace $_{ m BCM}$ K Replace BCM. Refer to BCS-157, "Removal and Installation". L >> GO TO 3. 3.writing vehicle specification **BCS** (P)CONSULT Configuration Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to BCS-144, "Work Procedure". Ν >> GO TO 4. 4.INITIALIZE BCM (NATS) (IF EQUIPPED)

CONFIGURATION (BCM)

Description INFOID.000000009751679

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"

(P)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-145, "Configuration list".
- 3. Confirm and/or change setting value for each item.

CAUTION:

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

NOTF:

If items are not displayed, touch "SETTING". Refer to <u>BCS-145, "Configuration list"</u> for written items and setting value.

4. Select "SETTING".

CAUTION:

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

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

CONFIGURATION (BCM)

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> WORK END

Configuration list

INFOID:0000000009751681

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

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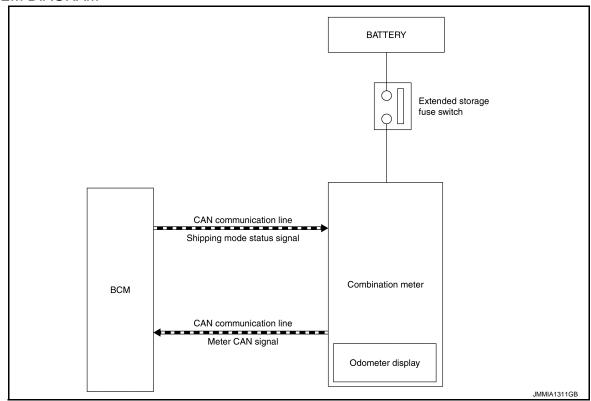
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SHIPPING MODE CANCEL OPERATION

Description INFOID:0000000009751682

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-156, "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

1. SHIPPING MODE CANCEL OPERATION

- 1. Turn ignition switch OFF.
- 2. Push in (switch on) the extended storage fuse switch. Refer to PG-94, "How To Check".
- 3. Turn ignition switch ON.
- 4. Turn ignition switch OFF and wait at least 2 seconds.

>> GO TO 2.

2. SHIPPING MODE CANCEL CHECK

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

>> WORK END

U1000 CAN COMM

[WITHOUT INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM

Description INFOID:0000000009751684

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 Signal Chart".

DTC Logic INFOID:0000000009751685

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

1.PERFORM SELF DIAGNOSTIC

- 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".

>> Refer to GI-46, "Intermittent Incident". NO

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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)	BCM detected internal CAN communication circuit malfunction.	BCM

Diagnosis Procedure

INFOID:0000000009751688

1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to BCS-157, "Removal and Installation".

C1735 IGN CIRCUIT OPEN

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

C1735 IGN CIRCUIT OPEN

DTC Logic

DTC DETECTION LOGIC

DTC	TC 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.
- 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-149</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK BCM IGNITION POWER SUPPLY CIRCUIT

Check BCM ignition power supply circuit. Refer to BCS-150, "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

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

Monitor item	Con	Monitor status	
IGN RLY	Ignition switch	OFF	Off
	ignition switch	ON	On

Is the item status normal?

YES >> Replace BCM. Refer to BCS-157, "Removal and Installation".

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

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INFOID:0000000009751690

Revision: 2013 October BCS-149 2014 JUKE

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000009751691

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 supply	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

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

	Terminals			Ignition switch position		
(+)			ignition switch position			
В	BCM		OFF	ACC	ON	
Connector	Terminal		Orr	ACC	ON	
M66	65	Ground	Battery	Battery	Battery	
IVIOO	57		voltage	voltage volta	voltage	
M65	11		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	CM		Continuity
Connector	Connector Terminal		Continuity
M66 70			Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000009751692

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1. CHECK OUTPUT 1 - 5 CIRCUIT FOR OPEN

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

System	ВСМ		Combinat	Continuity	
Oystem	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	BCM			Continuity
System	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	BCM			(Approx.)		
	Connector	Terminal				
OUTPUT 1		36				
OUTPUT 2		35		(V) 15		
OUTPUT 3		34	Ground	¹⁰ ₅		
OUTPUT 4	M65	33		0		
OUTPUT 5		32		PKIB4960J 7.0 - 8.0 V		

Is the measurement value normal?

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COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

YES >> Replace combination switch.

NO >> Replace BCM. Refer to BCS-157, "Removal and Installation".

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000009751693

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1. CHECK INPUT 1 - 5 CIRCUIT FOR OPEN

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

System	ВСМ		Combinat	Continuity	
System	Connector	Terminal	Connector	Terminal	Continuity
INPUT 1		6		12	
INPUT 2		5		14	
INPUT 3	M65	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			
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.
- 3. Check voltage between BCM harness connector and ground.

'						
Cuatam	(+	+)	(-)	Voltage		
System	ВС	CM		(Approx.)		
	Connector	Terminal				
INPUT 1		6				
INPUT 2	M65	5	Ground	Refer to BCS- 118, "Refer-		
INPUT 3		4				
INPUT 4		3		ence Value".		
INPUT 5		2				

Is the measurement value normal?

Yes >> Replace BCM. Refer to BCS-157, "Removal and Installation".

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COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

No >> Replace combination switch.

COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT 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.

	Data monitor item															
Malfunction combination	FR FOG SW	PASSING SW	HEAD LAMP SW 2	HEAD LAMP SW 1	HI BEAM SW	TAIL LAMP SW	TURN SIGNAL L	TURN SIGNAL R	INT VOLUME	RR WASHER SW	RR WIPER INT	RR WIPER ON	FR WIPER INT	FR WASHER SW	FR WIPER LOW	FR WIPER HI
А							×	×						×	×	
В		×		×									×			×
С			×		×				×	×						
D						×			×		×					
Е	×								×			×				
F									×		×					×
G									×	×		×		×		
Н													×		×	
I	×	×	×				×									
J				×	×	×		×								
K		All Items														
L			to K	tions A	ombina	to the c	licable	not app	item is	d or the	detecte	item is	nly one	If o		

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	Inspect the combination switch output circuit applicable to the malfunction ing part. Refer to BCS-151, "Diagnosis Procedure".				
С	Combination switch OUTPUT 3 circuit					
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 malfunction part. Refer to BCS-153, "Diagnosis Procedure".				
ļ	Combination switch INPUT 4 circuit	- Parti 1 (a) 6 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
J	Combination switch INPUT 5 circuit					
K	BCM	Replace BCM. Refer to BCS-157, "Removal and Installation".				
L	Combination switch	Replace combination switch.				

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NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

NORMAL OPERATING CONDITION

Description INFOID:0000000009751695

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-146</u>, "<u>Description</u>".

NOTE:

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

BCM (BODY CONTROL MODULE)

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

Removal and Installation

NOTE:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-143, "Description".

REMOVAL

- 1. Remove instrument lower panel. Refer to IP-13, "Removal and Installation".
- Remove harness clip.
- 3. Remove BCM mounting screws.
- 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-144, "Work Procedure".

Ν

Р

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BCS

K

Α

В

D

Е

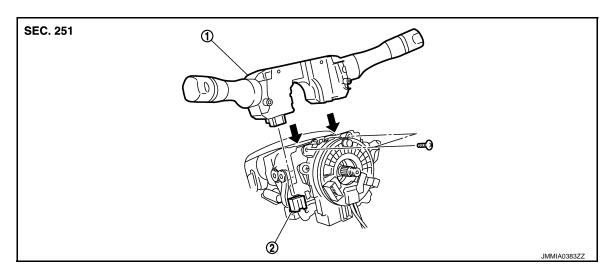
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Н

INFOID:0000000009751696

COMBINATION SWITCH

Exploded View



- 1. Combination switch
- 2. Combination switch connector

Removal and Installation

INFOID:0000000009751698

REMOVAL

- 1. Remove steering column cover. Refer to IP-13, "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.