BODY CONTROL SYSTEM

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< PRECAUTION >

PRECAUTION PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Service Procedure Precautions for Models with a Pop-up Roll Bar

WARNING:

Always observe the following items for preventing accidental activation.

- Risk of passenger injury or death may increase if the pop-up roll bar does not deploy during a roll over collision. In order to reduce the chance of an incident where the pop-up roll bar is inoperative, all maintenance must be performed by a NISSAN or INFINITI dealer.
- Before removing and installing the pop-up roll bar component parts and harness, always turn the ignition switch OFF, disconnect the battery negative terminal, and wait for 3 minutes or more. (The purpose of this operation is to discharge electricity that is accumulated in the auxiliary power supply circuit in the air bag diagnosis sensor unit.)
- When repairing, removing, and installing a pop-up roll bar, always refer to SRS AIR BAG and SRS AIR BAG CONTROL warnings in the Service Manual.

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

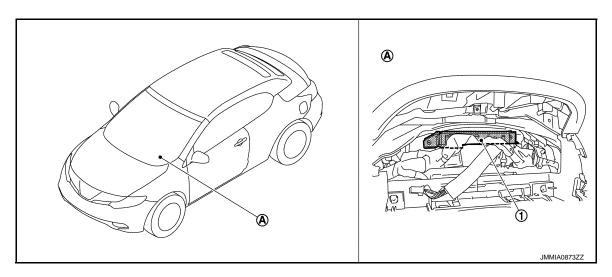
SYSTEM DESCRIPTION

COMPONENT PARTS

BODY CONTROL SYSTEM

BODY CONTROL SYSTEM : Component Parts Location

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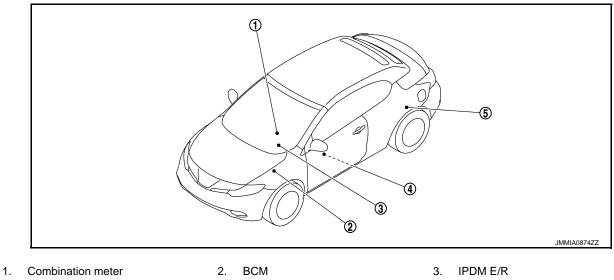


- 1. BCM
- Behind of combination meter Α.

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location

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- 4. Driver seat control unit
- 5. Soft top control unit

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-6, "COMBINATION SWITCH READING SYSTEM : System Diagram"
Signal buffer system		BCS-9, "SIGNAL BUFFER SYSTEM : System Diagram"
Power consumption control system		BCS-10. "POWER CONSUMPTION CONTROL SYSTEM : System Diagram"
Headlamp system		EXL-9, "HEADLAMP SYSTEM : System Diagram"
Auto light system		EXL-10, "AUTO LIGHT SYSTEM : System Diagram"
Turn signal and hazard warning lamp syste	em	EXL-11, "TURN SIGNAL AND HAZARD WARNING LAMP SYS- TEM : System Diagram"
Parking, license plate, side marker and tail	lamps system	EXL-12, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Diagram"
Front fog lamp system		EXL-13. "FRONT FOG LAMP SYSTEM : System Diagram"
Exterior lamp battery saver system		EXL-14, "EXTERIOR LAMP BATTERY SAVER SYSTEM : Sys- tem 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"
Front wiper and washer system		WW-7, "FRONT WIPER AND WASHER SYSTEM : System Dia- gram"
Rear window defogger system		DEF-5, "System Diagram"
Warning chime system		WCS-6, "WARNING CHIME SYSTEM : System Diagram"
Power door lock system		DLK-13, "System Diagram"
Intelligent Key system/engine start system		DLK-15, "INTELLIGENT KEY SYSTEM : System Diagram"
Trunk lid opener system		DLK-29, "System Diagram"
Nissan Vehicle Immobilizer System (NVIS) - NATS		SEC-13. "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS : System Diagram"
	Theft warning alarm	
Vehicle security system	Panic alarm	SEC-16, "VEHICLE SECURITY SYSTEM : System Diagram"
Power window system	1	PWC-7, "System Diagram"
Retained accessory power (RAP) system		PWC-7, "System Description"
Soft top system		RF-14, "SOFT TOP SYSTEM : System Description"

< SYSTEM DESCRIPTION >



COMBINATION SWITCH READING SYSTEM

COMBINATION SWITCH READING SYSTEM : System Diagram

всм Combination switch Lighting switch Wiper switch INPUT 1 5 0 \overline{a} 5 6 0 0 FR WIPER LOW FR WASHER TURN RH TURN LH **INPUT 2** ~ $\overline{0}$ $\overline{}$ HEADLAMP 1 PASSING FR WIPER INT FR WIPER HI INPUT 3 $\overline{}$ 5 0 <u>-</u> 0 INT VOLUME 1 HEADLAMP 2 HI BEAM **INPUT 4** INT VOLUME 3 0 5 AUTO LIGHT TAIL LAMP* **INPUT 5** 0 ō FR FOG INT VOLUME 2 OUTPUT 1 **OUTPUT 2** OUTPUT 3 **OUTPUT 4** OUTPUT 5 * : Lighting switch 1ST position. JPMIA0700GB

COMBINATION SWITCH READING SYSTEM : System Description

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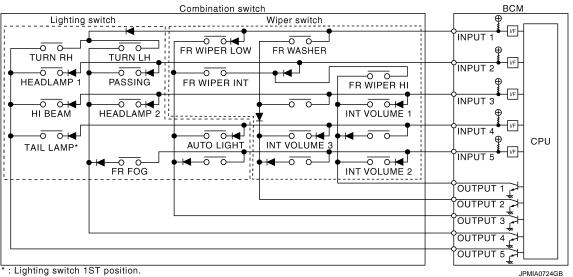
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OUTLINE

- BCM reads the status of the combination switch (light, turn signal, wiper and washer) and recognizes the status of each switch.
- BCM is 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



< SYSTEM DESCRIPTION >

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

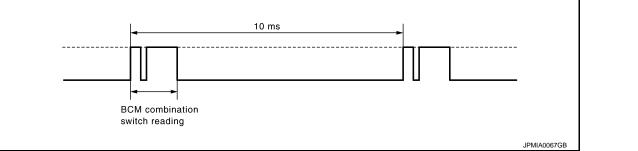
NOTE:

Headlamp has a dual system switch.

COMBINATION SWITCH READING FUNCTION

Description

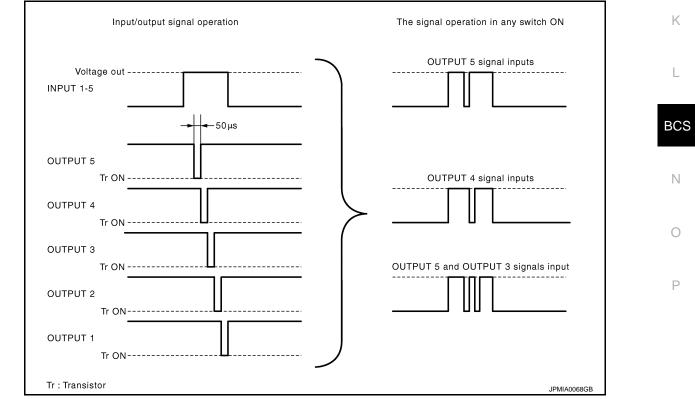
• BCM reads the status of the combination switch at 10 ms interval normally.



NOTE:

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

- BCM operates as follows and judges the status of the combination switch.
- INPUT 1 5 outputs the voltage waveforms of 5 systems simultaneously.
- It operates the transistor on OUTPUT side in the following order: OUTPUT $5 \rightarrow 4 \rightarrow 3 \rightarrow 2 \rightarrow 1$.
- The voltage waveform of INPUT corresponding to the formed circuit changes according to the operation of the transistor on OUTPUT side if any (1 or more) switches are ON.
- It reads this change of the voltage as the status signal of the combination switch.



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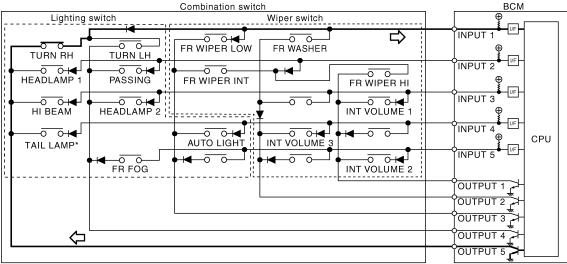
< SYSTEM DESCRIPTION >

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 (TURN RH switch) is turned ON

The circuit between INPUT 1 and OUTPUT 5 is formed when the TURN RH switch is turned ON.



: Lighting switch 1ST position.

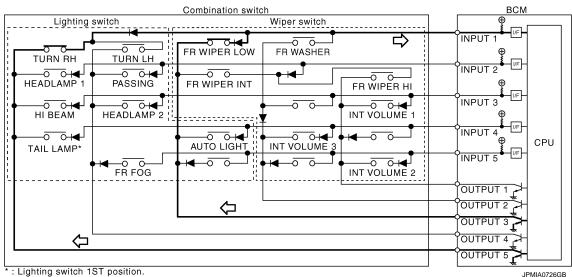
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• BCM detects the combination switch status signal "1E" when the signal of OUTPUT 5 is input to INPUT 1.

BCM judges that the TURN RH switch is ON when the signal "1E" is detected.

Example 2: When some switches (turn RH switch, front wiper LO switch) are turned ON

The circuits between INPUT 1 and OUTPUT 5 and between INPUT 1 and OUTPUT 3 are formed when the TURN RH switch and FR WIPER LOW switch are turned ON.



: Lighting switch 1ST position.

- BCM detects the combination switch status signal "1CE" when the signals of OUTPUT 3 and OUTPUT 5 are input to INPUT 1.
- BCM judges that the TURN RH switch and FR WIPER LOW switch are ON when the signal "1CE" 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.

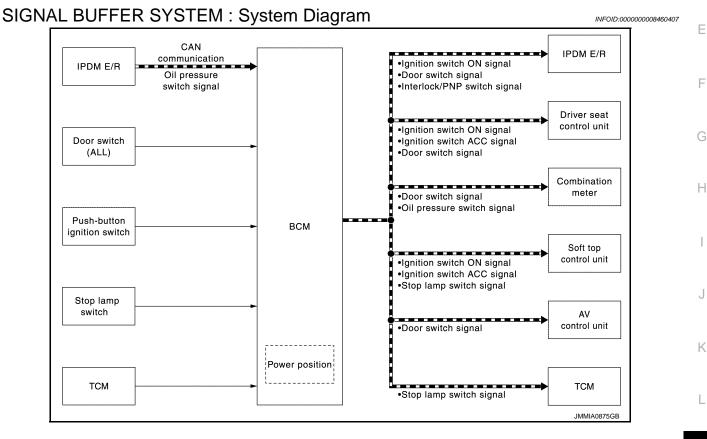
Wiper intermittent dial position		Switch status	
wiper internittent dial position	INT VOLUME 1	INT VOLUME 2	INT VOLUME 3
1	ON	ON	ON
2	ON	ON	OFF

< SYSTEM DESCRIPTION >

Winer intermittent dial position		Switch status		0
Wiper intermittent dial position	INT VOLUME 1	INT VOLUME 2	INT VOLUME 3	A
3	ON	OFF	OFF	-
4	OFF	OFF	OFF	В
5	OFF	OFF	ON	_
6	OFF	ON	ON	_
7	OFF	ON	OFF	С

NOTE:

For details of wiper intermittent dial position, refer to <u>WW-7</u>, <u>"FRONT WIPER AND WASHER SYSTEM : System Description"</u>. SIGNAL BUFFER SYSTEM



SIGNAL BUFFER SYSTEM : System Description

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 ACC signal 	Push-button ignition switch (Push switch)	 IPDM E/R (CAN) Driver seat control unit (CAN) Soft top control unit (CAN) 	Inputs the push-button ignition switch (push switch) signal and transmits the ignition switch sta- tus judged with BCM via CAN communication.
Door switch signal	Any door switch	 Combination meter (CAN) IPDM E/R (CAN) Driver seat control unit (CAN) AV control unit (CAN) 	Inputs the door switch signal and transmits it via CAN com- munication.

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< SYSTEM DESCRIPTION >

Signal name	Input	Output	Description
Oil pressure switch signal	IPDM E/R (CAN)	Combination meter (CAN)	Transmits the received oil pres- sure switch signal via CAN communication.
Stop lamp switch signal	Stop lamp switch	TCM (CAN)Soft top control unit (CAN)	Inputs the stop lamp switch 1 signal, and stop lamp switch 2 signal, and transmits it via CAN communication.
Interlock/PNP switch signal	тсм	IPDM E/R (CAN)	Inputs the selector lever P/N po- sition signal, and transmits the interlock/PNP switch signal via CAN communication.

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM : System Diagram

Each switch BCM CAN communication line BCM CAN communication line Sleep-ready signal Wake up signal Wake up signal Driver seat control unit Soft top control unit JMMAQ876CB

POWER CONSUMPTION CONTROL SYSTEM : System Description

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OUTLINE

- BCM incorporates a power saving control function that reduces the power consumption according to the vehicle status.
- BCM switches the status (control mode) by itself with the power saving control function. It performs the sleep request to each unit (IPDM E/R, combination meter, driver seat control unit and soft top 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

< SYSTEM DESCRIPTION >

- 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 Ignition switch: OFF Vehicle security system: Not operation Warning chime: Not operation Intelligent Key system buzzer: Not operation Trunk room lamp switch status: No change Stop lamp switch: OFF Key slot (card switch) status: No change Turn signal indicator lamp: Not operation Exterior lamp: OFF Door lock status: No change CONSULT communication status: Not communication Meter display signal: Non-transmission Door switch status: No change Rear window defogger: OFF 	 Interior room lamp battery saver: Time out* RAP system: OFF Soft top control unit communication: No transmission Push-button ignition switch illumination: OFF Nissan Vehicle Immobilizer System (NVIS) - NATS: Not operation Remote keyless entry receiver (front, rear) communication status: No communication Tire pressure monitor system (TPMS): Stop LOCK indicator lamp: Not operation ACC indicator lamp: Not operation ON indicator lamp: Not operation 	E F

NOTE:

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

Wake-up operation

- BCM changes from the low power consumption mode to the CAN communication sleep mode when the any of the BCM wake-up conditions is fulfilled. Only the control with BCM is activated.
- BCM transmits the sleep wake up signal (wake up) to each unit when any of the CAN wake-up conditions is fulfilled. It changes from the low power consumption mode or the CAN communication sleep mode to the normal mode.
- Each unit starts the transmission of CAN communication with the sleep wake up signal. In addition, the combination meter transmits the wake up signal to BCM via CAN communication to report the CAN communication start.

Wake-up condition

• Hazard switch: $OFF \rightarrow ON$ • Trunk lid opener switch: $OFF \rightarrow ON$ • Soft top control unit communication: Pocciving	BCM wake-up condition	CAN wake-up condition	L
	Soft top control unit communication: ReceivingRemote keyless entry receiver (front, rear) communication: Re-	 Key slot (key switch): OFF → ON, ON → OFF Push-button ignition switch (push switch): OFF→ ON Hazard switch: OFF → ON PASSING switch: OFF → ON, ON → OFF TAIL LAMP switch: OFF → ON Driver door switch: OFF → ON, ON → OFF Passenger door switch: OFF → ON, ON → OFF Trunk room lamp switch: OFF → ON, ON → OFF Driver door request switch: OFF → ON Passenger door request switch: OFF → ON Trunk lid opener request switch: OFF → ON 	BCS N

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< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description	
Work Support	Changes the setting for each system function.	
Self Diagnostic Result	Displays the diagnosis results judged by BCM.	
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.

		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 CONDITONER*			
Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid opener system	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

NOTE:

*: This item is displayed, but is not used.

FREEZE FRAME DATA (FFD)

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

< SYSTEM DESCRIPTION >

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

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met.

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

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

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

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WORK SUPPORT

< SYSTEM DESCRIPTION >

Monitor item	Description		
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operation with this mode On: Operate Off: Non-operation 		
AUTOMATIC DOOR LOCK SE- LECT	 Automatic door lock function mode can be selected from the following in this mode VH SPD: All doors are locked when vehicle speed more than 24 km/h (15 MPH) P RANGE: All doors are locked when shifting the selector lever from P position to other than 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 		
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/unlock operation 		

DATA MONITOR

NOTE:

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

Monitor Item	Contents	
REQ SW-DR	Indicated [ON/OFF] condition of door request switch (driver side).	
REQ SW-AS	Indicated [ON/OFF] condition of door request switch (passenger side).	
REQ SW-BD/TR	Indicated [ON/OFF] condition of trunk lid opener 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	NOTE: This item is displayed, but cannot be monitored	
DOOR SW-RL	NOTE: This item is displayed, but cannot be monitored	
DOOR SW-BK	NOTE: This item is displayed, but cannot be monitored	
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

 DOOR LOCK 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 screet touched. 	Test item	Description
OTR OLK is displayed, but calified be used	DOOR LOCK	 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 door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT screen is

OW DEFUGGER

< SYSTEM DESCRIPTION >

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

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Data monitor

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

ACTIVE TEST

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

BUZZER

BUZZER : CONSULT Function (BCM - BUZZER)

CONSULT APPLICATION ITEMS

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

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]	[Unit] Description HSW Status of push button ignition switch judged by BCM		
PUSH SW [On/Off]			
JNLK SEN-DR [On/Off]	Status of unlock sensor judged by BCM.		
VEH SPEED 1 [Km/h]	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line.		
KEY SW-SLOT [On/Off]	Status of key slot judged by BCM.		
TAIL LAMP SW [On/Off]	Status of each switch judged by BCM using the combination switch readout function.		
FR FOG SW [On/Off]	Status of front fog lamp switch judged by BCM.		
DOOR SW-DR On/Off]	Status of driver side door switch judged by BCM.		

ACTIVE TEST

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

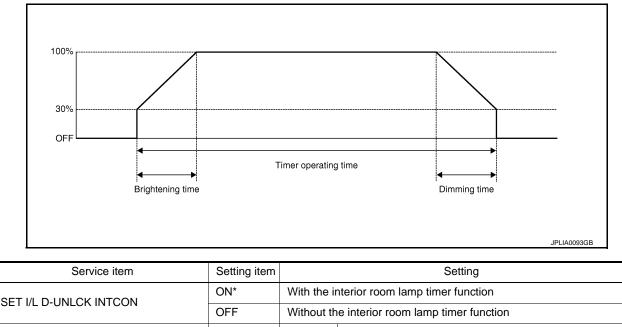
INT LAMP

< SYSTEM DESCRIPTION >

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000008979908

WORK SUPPORT



SET I/L D-UNLCK INTCON	OFF	Without th	ne interior room lamp timer function
	MODE 2	7.5 sec.	
ROOM LAMP TIMER SET	MODE 3*	15 sec.	Sets the interior room lamp ON time. (Timer operating time)
	MODE 4	30 sec.	
	MODE 1	0.5 sec.	
	MODE 2*	1 sec.	
ROOM LAMP ON TIME SET	MODE 3	2 sec.	Sets the interior room lamp gradual brightening time.
	MODE 4	3 sec.	
	MODE 5	0 sec.	
	MODE 1	0.5 sec.	
	MODE 2*	1 sec.	Sets the interior room lamp gradual dimming time.
ROOM LAMP OFF TIME SET	MODE 3	2 sec.	
	MODE 4	3 sec.	
	MODE 5	0 sec.	
	MODE 1*	Interior room lamp timer activates with synchronizing all doors.	
R LAMP TIMER LOGIC SET	MODE 2	Interior 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	
REQ SW-DR [On/Off]	The switch status input from door request switch (driver side)	
REQ SW-AS [On/Off]	The switch status input from door request switch (passenger side)	

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
REQ SW-RR [On/Off]	NOTE:
REQ SW-RL [On/Off]	The item is indicated, but not monitored.
PUSH SW [On/Off]	The switch status input from push-button ignition switch
KEY SW-SLOT [On/Off]	Key switch status input from key slot
ACC RLY-F/B [On/Off]	NOTE: The item is indicated, but not monitored.
UNLK SEN-DR [On/Off]	Driver door unlock status input from unlock sensor
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]	
DOOR SW-RL [On/Off]	NOTE: The item is indicated, but not monitored.
DOOR SW-BK [On/Off]	
CDL LOCK SW [On/Off]	Lock switch status received from door lock/unlock switch by power window switch se- rial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from door lock/unlock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from door key cylinder switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder switch by power window switch serial link
TRNK/HAT MNTR [On/Off]	The switch status input from trunk room lamp switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description		
INT LAMP	On	Outputs the interior room lamp control signal to turn map lamp and personal lamp ON (Map lamp switch is in DOOR position).		
	Off	Stops the interior room lamp control signal to turn map lamp and personal lamp OFF.		
STEP LAMP TEST	On	Outputs the step lamp control signal to turn step lamp ON.		
	Off	Stops the step lamp control signal to turn step lamp OFF.		
	On	Outputs the trunk room lamp control signal to turn trunk room lamp ON.		
LUGGAGE LAMP TEST	Off	Stops the trunk room lamp control signal to turn trunk room lamp OFF.		

HEADLAMP

< SYSTEM DESCRIPTION >

HEADLAMP : CONSULT Function (BCM - HEAD LAMP)

INFOID:000000008979906

WORK SUPPORT

Service item	Setting item	Setting				
	MODE 1*	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 set	ting than normal setting (Turns ON later than normal operation.)			
BATTERY SAVER SET	On*	With the exterior la	amp battery saver function			
DATTERT SAVER SET	Off	Without the exterior lamp battery saver function				
	MODE 1*	45 sec.				
	MODE 2	Without the func- tion				
	MODE 3	30 sec.				
ILL DELAY SET	MODE 4	60 sec.	Sets delay timer function timer operation time.			
	MODE 5	90 sec.	(All doors closed)			
	MODE 6	120 sec.				
	MODE 7	150 sec.				
	MODE 8	180 sec.				

*: Factory setting

DATA MONITOR

NOTE:

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

Monitor item [Unit]	Description
PUSH SW [On/Off]	The switch status input from push-button ignition switch
ENGINE STATE [Stop/Stall/Crank/Run]	The engine status received from ECM via CAN communication
VEH SPEED 1 [km/h]	The value of the vehicle speed received from combination meter via CAN communi- cation
KEY SW-SLOT [On/Off]	Key switch status input from key slot

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
TURN SIGNAL R [On/Off]	
TURN SIGNAL L [On/Off]	
TAIL LAMP SW [On/Off]	
HI BEAM SW [On/Off]	
HEAD LAMP SW1 [On/Off]	Each switch status that BCM detects from the combination switch reading function
HEAD LAMP SW2 [On/Off]	
PASSING SW [On/Off]	
AUTO LIGHT SW [On/Off]	
FR FOG SW [On/Off]	
RR FOG SW [On/Off]	NOTE: The item is indicated, but 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]	NOTE: The item is indicated, but not monitored.
DOOR SW-RL [On/Off]	NOTE: The item is indicated, but not monitored.
DOOR SW-BK [On/Off]	NOTE: The item is indicated, but not monitored.
OPTICAL SENSOR [V]	The value of exterior brightness voltage input from the optical sensor

ACTIVE TEST

Test item	Operation	Description
TAIL LAMP	On	Transmits the position light request signal to IPDM E/R via CAN commu- nication to turn the tail lamp ON.
	Off	Stops the position light request signal transmission.
	Hi	Transmits the high beam request signal via CAN communication to turn the headlamp (HI).
HEAD LAMP	Low	Transmits the low beam request signal via CAN communication to turn the headlamp (LO).
	Off	Stops the high & low beam request signal transmission.
FR FOG LAMP	On	Transmits the front fog light request signal to IPDM E/R via CAN commu- nication to turn the front fog lamp ON.
	Off	Stops the front fog light request signal transmission.
RR FOG LAMP	On	NOTE:
	Off	The item is indicated, but cannot be tested.

BCS

< SYSTEM DESCRIPTION >

Test item	Operation	Description
	RH	NOTE: The item is indicated, but cannot be tested.
CORNERING LAMP	LH	
	Off	
ILL DIM SIGNAL	On	NOTE:
	Off	The item is indicated, but cannot be tested.

WIPER

WIPER : CONSULT Function - WIPER

INFOID:000000008979910

WORK SUPPORT

Service item	Setting item	Description
WIPER SPEED SETTING Off*	With vehicle speed (Front wiper intermittent time linked with the vehicle speed and wiper intermittent dial position)	
	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 com- munication		
FR WIPER HI [Off/On]			
FR WIPER LOW [Off/On]	Statue of each quitch judged 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		
H/L WASH SW [Off/On]	NOTE: The item is indicated, but not monitored		

ACTIVE TEST

< SYSTEM DESCRIPTION >

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

FLASHER

FLASHER : CONSULT Function (BCM - FLASHER)

WORK SUPPORT

Service item	Setting item	Setting		
HAZARD ANSWER BACK	Lock Only*	With locking only		
	Unlk Only	With unlocking only	Sets the hazard warning lamp answer back function when the door is lock/unlock with the request switch or	
	Lock/Unlk	With locking/unlocking	the key fob.	G
	Off	Without the function		0

*: 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]	The switch status input from the door request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from the door request switch (passenger side)
PUSH SW [On/Off]	The switch status input from the push-button ignition switch
TURN SIGNAL R [On/Off]	Each switch status that BCM detects from the combination switch reading function
TURN SIGNAL L [On/Off]	
HAZARD SW [On/Off]	The switch status input from the hazard switch
RKE-LOCK [On/Off]	Lock signal status received from the remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from the remote keyless entry receiver
RKE-PANIC [On/Off]	Panic alarm signal status received from the remote keyless entry receiver

ACTIVE TEST

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

Revision: 2012 October

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INFOID:000000008979907

< SYSTEM DESCRIPTION > INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:000000008973708

WORK SUPPORT

Monitor item	Description
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 time can be changed in this mode MODE 1: 1 minute MODE 2: 5 minutes MODE 3: 30 seconds MODE 4: 2 minutes
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch mode can be changed to operate (ON) or not operate (OFF) in this mode
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (ON) or not operate (OFF) with this mode
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by trunk lid opener request switch can be changed to operate (ON) or not operate (OFF) with this mode
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.
PW DOWN SET	 Unlock button pressing time on Intelligent Key button can be selected from the following with this mode MODE 1: 3 sec. MODE 2: Non-operation MODE 3: 5 sec.
TAKE OUT FROM WIN WARN	NOTE: This item is displayed, but cannot be used
TRUNK OPEN DELAY	 Trunk button pressing on Intelligent Key can be selected as per the following in this mode MODE 1: Press and hold MODE 2: Press twice MODE 3: Press and hold, or press twice
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (ON) or not operate (OFF) with this mode
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (ON) or not operate (OFF) with this mode.
HAZARD ANSWER BACK	 Hazard reminder function mode can be selected from the following with this mode LOCK ONLY: Door lock operation only UNLOCK ONLY: Door unlock operation only LOCK/UNLOCK: Lock/unlock operation OFF: Non-operation
ANS BACK I-KEY LOCK	 Buzzer reminder function (lock operation) mode by door request switch (driver side and passenger side) 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 operate (ON) or not operate (OFF) with this mode
SHORT CRANKING OUTPUT	Starter motor can operate during the times below • 70 msec • 100 msec • 200 msec
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) with this mode

SELF-DIAG RESULT

Revision: 2012 October

< SYSTEM DESCRIPTION >

Refer to BCS-55, "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)	С
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side)	
REQ SW -RR	NOTE: This item is displayed, but cannot be monitored	D
REQ SW -RL	NOTE: This item is displayed, but cannot be monitored	
REQ SW -BD/TR	Indicates [ON/OFF] condition of trunk lid opener request switch	E
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch	
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2	F
ACC RLY-FB	NOTE: This item is displayed, but cannot be monitored.	
CLUCH SW	NOTE: This item is displayed, but cannot be monitored	G
BRAKE SW 1	Indicates [ON/OFF]* condition of brake switch power supply	
BRAKE SW 2	Indicates [ON/OFF] condition of brake switch	F
DETE/CANCL SW	Indicates [ON/OFF] condition of P position	
SFT PN/N SW	Indicates [ON/OFF] condition of P or N position	
S/L -LOCK	NOTE: This item is displayed, but cannot be monitored	
S/L -UNLOCK	NOTE: This item is displayed, but cannot be monitored	J
S/L RELAY -F/B	NOTE: This item is displayed, but cannot be monitored	
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door unlock status	— K
PUSH SW -IPDM	Indicates [ON/OFF] condition of push-button ignition switch	
IGN RLY1 -F/B	Indicates [ON/OFF] condition of ignition relay 1	L
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	BC
SFT N -MET	Indicates [ON/OFF] condition of N position	
ENGINE STATE	Indicates [STOP/START/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	C
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be monitored	P
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h]	P
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or CVT by numerical value [Km/h]	
DOOR STAT-DR	Indicates [LOCK/READY/UNLOCK] condition of driver side door status	
DOOR STAT-AS	Indicates [LOCK/READY/UNLOCK] 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	

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< SYSTEM DESCRIPTION >

Monitor Item	Condition
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk room lamp switch
RKE-LOCK	Indicates [ON/OFF] condition of door lock signal from Intelligent Key
RKE-UNLOCK	Indicates [ON/OFF] condition of door unlock signal from Intelligent Key
RKE-TR/BD	Indicates [ON/OFF] condition of trunk open signal from Intelligent Key
RKE-PANIC	Indicates [ON/OFF] condition of panic alarm button of Intelligent Key
RKE-P/W OPEN	Indicates [ON/OFF] condition of P/W DOWN signal from Intelligent Key
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key
RKE OPE COUN1	When remote keyless entry receiver (front side) receives the signal transmitted while operating on Intelli- gent Key, the numerical value start changing.
RKE OPE COUN2	When remote keyless entry receiver (rear side) receives the signal transmitted while operating on Intelli- gent Key, the numerical value start changing.

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

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT screen is touched.
PW REMOTO DOWN SET	This test is able to check power window down operation. The power window down will be activated after "ON" on CONSULT screen is touched.
INSIDE BUZZER	 This test is able to check warning chime in combination meter operation. Take away warning chime sounds when "TAKE OUT" on CONSULT screen is touched. Key warning chime sounds when "KEY WARN" on CONSULT screen is touched. P position warning chime sounds when "P RNG WARN" on CONSULT screen is touched. ACC warning chime sounds when "ACC WARN" on CONSULT screen is touched.
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer will be activated after "ON" on CONSULT screen is touched.
INDICATOR	 This test is able to check warning lamp operation. "KEY" Warning lamp illuminates when "KEY ON" on CONSULT screen is touched. "KEY" Warning lamp flashes when "KEY IND" on CONSULT screen is touched.
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT screen is touched.
LCD	 This test is able to check meter display information Engine start information displays when "BP N" on CONSULT screen is touched. Engine start information displays when "BP I" on CONSULT screen is touched. Key ID warning displays when "ID NG" on CONSULT screen is touched. ROTAT: This item is displayed, but cannot be tested. P position warning displays when SFT P on CONSULT screen is touched. Intelligent Key insert information displays when "INSRT" on CONSULT screen is touched. Intelligent Key low battery warning displays when "BATT" on CONSULT screen is touched. Take away through window warning displays when "NO KY" on CONSULT screen is touched. OFF position warning display when "LK WN" on CONSULT screen is touched.
TRUNK/GLASS HATCH	NOTE: This item is displayed, but cannot be tested.
FLASHER	This test is able to check hazard warning lamp operation. The hazard warning lamps will be activated after "ON" on CONSULT screen is touched.
HORN	This test is able to check horn operation. The horn will be activated after "ON" on CONSULT screen is touched.
P RANGE	This test is able to check CVT shift selector power supply CVT shift selector power is supplied when "ON" on CONSULT screen is touched.

< SYSTEM DESCRIPTION >

Test item	Description
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.
LOCK INDICATOR	This test is able to check indicator in push-ignition switch operation. Indicator in push-button ignition switch illuminates when "ON" on CONSULT screen is touched.
ACC INDICATOR	This test is able to check indicator in push-ignition switch operation. Indicator in push-button ignition switch illuminates when "ON" on CONSULT screen is touched.
IGNITION ON IND	This test is able to check indicator in push-ignition switch operation. Indicator in push-button ignition switch illuminates when "ON" on CONSULT screen is touched.
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination flash when "ON" on CONSULT screen is touched.
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be tested.

COMB SW

COMB SW : CONSULT Function (BCM - COMB SW)

INFOID:000000008460420

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DATA MONITOR

NOTE:

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

Monitor item [UNIT]	Description
FR WIPER HI [Off/On]	Displays the status of the FR WIPER HI switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER LOW [Off/On]	Displays the status of the FR WIPER LOW switch in combination switch judged by BCM with the combination switch reading function.
FR WASHER SW [Off/On]	Displays the status of the FR WASHER switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER INT [Off/On]	Displays the status of the FR WIPER INT switch in combination switch judged by BCM with the combination switch reading function.
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]	Displays the status of wiper intermittent 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.

< SYSTEM DESCRIPTION >

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

BCM

BCM : CONSULT Function (BCM - BCM)

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:000000008973711

INFOID:000000008460421

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

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	
CONFIRM ID3	Indicates [YET] at all time. Switch to [DONE] when a registered Intelligent Key is inserted into the key slot.
CONFIRM ID2	
CONFIRM ID1	
TP 4	
TP 3	Indicates the number of ID which has been registered
TP 2	 Indicates the number of ID which has been registered.
TP 1	
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.

ACTIVE TEST

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

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000008979909

WORK SUPPORT

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< SYSTEM DESCRIPTION >

Service item	Setting item		Setting
BATTERY SAVER SET	On*	With the	exterior lamp battery saver function
	Off	Without th	ne exterior lamp battery saver function
ROOM LAMP BAT SAV SET	On*	With the i	nterior room lamp battery saver function
	Off	Without th	ne interior room lamp battery saver function
	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 factory setting is for 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
REQ SW-DR [On/Off]	The switch status input from door request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from door request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	The switch status input from push-button ignition switch
ACC RLY-F/B [On/Off]	NOTE: The item is indicated, but not monitored.
KEY SW-SLOT [On/Off]	Key switch status input from key slot
UNLK SEN-DR [On/Off]	Driver door unlock status input from unlock sensor
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]	
DOOR SW-RL [On/Off]	NOTE: The item is indicated, but not monitored.
DOOR SW-BK [On/Off]	
CDL LOCK SW [On/Off]	Lock switch status received from door lock/unlock switch by power window switch se rial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from door lock/unlock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from door key cylinder switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder switch by power window switch serial link

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< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
TRNK/HAT MNTR [On/Off]	The switch status input from trunk room lamp switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
BATTERY SAVER	Off	Cuts the interior room lamp power supply to turn interior room lamp OFF.
	On	Outputs the interior room lamp power supply to turn interior room lamp ON.*

*: Each lamp switch is in ON position.

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:000000008973709

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-button ignition switch.	
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door unlock status.	
VEH SPEED 1	Indicates [Km/h] condition of vehicle speed signal from combination meter.	
KEY CYL SW-TR	Indicates [ON/OFF] condition of trunk key cylinder switch.	
TR CANCEL SW	Indicates [ON/OFF] condition of trunk lid opener cancel switch.	
TR/BD OPEN SW	Indicates [ON/OFF] condition of trunk lid opener switch.	
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk room lamp switch.	
RKE-TR/BD	Indicates [ON/OFF] condition of trunk open signal from Intelligent Key.	

ACTIVE TEST

Test item	Description
TRUNK/GLASS HATCH	NOTE: This item is displayed, but cannot be used

THEFT ALM

THEFT ALM : CONSULT Function (BCM - THEFT)

INFOID:000000008973710

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.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

DATA MONITOR **NOTE**:

< SYSTEM DESCRIPTION >

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 trunk lid opener 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.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch LH.
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch RH.
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	NOTE: This is displayed even when it is not equipped.
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/unlock switch LH and RH.
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/unlock switch LH and RH.
KEY CYL LK-SW	Indicates [ON/OFF] condition of lock signal from front door key cylinder switch.
KEY CYL UN-SW	Indicates [ON/OFF] condition of unlock signal from front door key cylinder switch.
KEY CYL SW-TR	Indicates [ON/OFF] condition of trunk key cylinder switch.
TR/BD OPEN SW	Indicates [ON/OFF] condition of trunk lid opener switch.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk room lamp switch.
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	Indicates [ON/OFF] condition of TRUNK signal from Intelligent Key.

WORK SUPPORT

Test Item	Description	
SECURITY ALARM SET	This mode is able to confirm and change security alarm ON-OFF setting.	BCS
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.	N

ACTIVE TEST

Test Item	Description
THEFT IND	This test is able to check security indicator lamp operation. The lamp will be turned on when "ON" on CONSULT screen is touched.
VEHICLE SECURITY HORN	This test is able to check vehicle security horn operation. The horns will be activated for 0.5 sec- onds after "ON" on CONSULT screen is touched.
HEADLAMP(HI)	This test is able to check vehicle security lamp operation. The headlamps will be activated for 0.5 seconds after "ON" on CONSULT screen is touched.
FLASHER	This test is able to check vehicle security hazard lamp operation. The hazard lamps will be activated after "ON" on CONSULT screen is touched.

RETAINED PWR

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< SYSTEM DESCRIPTION >

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)

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:000000008460427

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]	T] 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	
	Off	OFF	
OIL PRESSURE SW On		BCM transmits the oil pressure switch signal to the combination meter via CAN communica- tion, which illuminates the oil pressure warning lamp in the combination meter.	

AIR PRESSURE MONITOR

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

INFOID:000000008979912

APPLICATION ITEMS

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-55, "DTC Index".

When "CRNT" is displayed on self-diagnosis result,

The system is presently malfunctioning.

When "PAST" is displayed on self-diagnosis result,

• System malfunction in the past is detected, but the system is presently normal.

DATA MONITOR MODE Screen of data monitor mode is displayed. NOTE:

< SYSTEM DESCRIPTION >

- When malfunction is detected, CONSULT perform REAL-TIME DIAGNOSIS.
- Also, any malfunction detected while in this mode will be displayed at real time.
- 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)	Remark	D
AIR PRESS FL (kPa//kg/cm ² /Psi)		
AIR PRESS FR (kPa//kg/cm ² /Psi)		С
AIR PRESS RR (kPa//kg/cm ² /Psi)	Tire pressure	
AIR PRESS RL (kPa//kg/cm ² /Psi)		D
ID REGST FL1 (Green/Red)		
ID REGST FR1 (Green/Red)	Desistantion ID	_
ID REGST RR1 (Green/Red)	Registration ID	E
ID REGST RL1 (Green/Red)		
WARNING LAMP (On/Off)	Low tire pressure warning lamp	F
BUZZER (On/Off)	NOTE: This item is displayed, but cannot be use this item.	

NOTE:

Before performing the self-diagnosis, be sure to register the ID, or erase the actual malfunction location may be different from that displayed on CONSULT.

ACTIVE TEST MODE

NOTE:

Before performing the self-diagnosis, be sure to register the ID, or erase the actual malfunction may be different from that displayed on CONSULT.

TEST ITEM LIST

Test item	Content	J
WARNING LAMP	This test is able to check to check that the low tire pressure warning lamp turns on.	_
ID REGIST WARNING	This test is able to check to check that the low tire pressure warning lamp turns on.	
FLASHER	This test is able to check to check that each turn signal lamp turns on.	— K
HORN	This test is able to check to check that the horn sounds.	_

WORK SUPPORT MODE

ltem	Description	
ID READ	Registered tire pressure sensor ID can be displayed.	BCS
ID REGIST	Tire pressure sensor ID can be registered.	-

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ECU DIAGNOSIS INFORMATION BCM

Reference Value

INFOID:000000008460429

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
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
	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
TURN SIGNAL R	Other than turn signal switch RH	Off
IURN 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 LAWP SW	Lighting switch 1ST or 2ND	On
	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
HEAD LAIVIP SVV 2	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
FR FOG SW	Front fog lamp switch OFF	Off
FR FUG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On

Monitor Item	Condition	Value/Status
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off
DL LOCK SW	Other than power door lock switch LOCK	Off
DL LOCK SVV	Power door lock switch LOCK	On
	Other than power door lock switch UNLOCK	Off
DL UNLOCK SW	Power door lock switch UNLOCK	On
	Other than driver door key cylinder LOCK position	Off
EY CYL LK-SW	Driver door key cylinder LOCK position	On
	Other than driver door key cylinder UNLOCK position	Off
EY CYL UN-SW	Driver door key cylinder UNLOCK position	On
EY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
	Hazard switch is OFF	Off
IAZARD SW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
	Trunk lid opener cancel switch OFF	Off
R CANCEL SW	Trunk lid opener cancel switch ON	On
	Trunk lid opener switch OFF	Off
R/BD OPEN SW	While the trunk lid opener switch is turned ON	On
<u> </u>	Trunk lid closed	Off
RNK/HAT MNTR	Trunk lid opened	On
	LOCK button of Intelligent Key is not pressed	Off
KE-LOCK	LOCK button of Intelligent Key is pressed	On
	UNLOCK button of Intelligent Key is not pressed	Off
KE-UNLOCK	UNLOCK button of Intelligent Key is pressed	On
	TRUNK OPEN button of Intelligent Key is not pressed	Off
RKE-TR/BD	TRUNK OPEN button of Intelligent Key is pressed	On
	PANIC button of Intelligent Key is not pressed	Off
KE-PANIC	PANIC button of Intelligent Key is pressed	On
	UNLOCK button of Intelligent Key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of Intelligent Key is pressed and held	On
	LOCK/UNLOCK button of Intelligent Key is not pressed and held si- multaneously	Off
RKE-MODE CHG	LOCK/UNLOCK button of Intelligent Key is pressed and held simul- taneously	On
	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
	Driver door request switch is not pressed	Off
REQ SW -DR	Driver door request switch is pressed	On
	Passenger door request switch is not pressed	Off
REQ SW -AS	Passenger door request switch is pressed	On

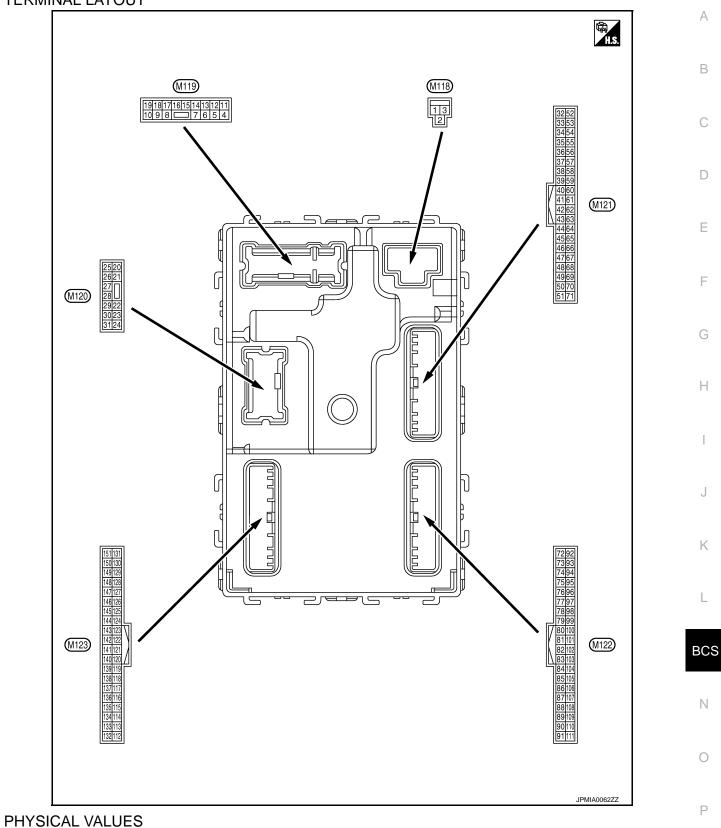
Monitor Item	Condition	Value/Status
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Trunk lid opener request switch is not pressed	Off
	Trunk lid opener request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
0311300	Push-button ignition switch (push switch) is pressed	On
GN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
	The brake pedal is not depressed	Off
BRAKE SW 2	Stop lamp switch 1 signal circuit is normal	On
	Selector lever in P position	Off
DETE/CANCL SW	Selector lever in any position other than P	On
	Selector lever in any position other than P and N	Off
SFT PN/N SW	Selector lever in P or N position	On
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off
	Driver door is unlocked	Off
JNLK SEN -DR	Driver door is locked	On
	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On
	Ignition switch in OFF or ACC position	Off
GN RLY1 -F/B	Ignition switch in ON position	On
	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
	Selector lever in any position other than P and N	Off
SFT PN -IPDM	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On
	Engine stopped	Stop
	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run

Monitor Item	Condition	Value/Status
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 (Selector lever is in the P position)	Reset
	Ignition switch is ON	Set
	The engine start is prohibited	Reset
PRMT ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
	Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The Intelligent Key ID that the key slot receives is not recognized by any Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by any Intelligent Key ID registered to BCM.	Done
CONFIRM ID4	The Intelligent Key ID that the key slot receives is not recognized by the fourth Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the fourth Intelligent Key ID registered to BCM.	Done
CONFIRM ID3	The Intelligent Key ID that the key slot receives is not recognized by the third Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the third Intelligent Key ID registered to BCM.	Done
CONFIRM ID2	The Intelligent Key ID that the key slot receives is not recognized by the second Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the second Intelligent Key ID registered to BCM.	Done
	The Intelligent Key ID that the key slot receives is not recognized by the first Intelligent Key ID registered to BCM.	Yet
CONFIRM ID1	The Intelligent Key ID that the key slot receives is recognized by the first Intelligent Key ID registered to BCM.	Done

Monitor Item	Condition	Value/Status
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
1F 4	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
15	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
192	The ID of second Intelligent Key is registered to BCM	Done
	The ID of first Intelligent Key is not registered to BCM	Yet
TP 1	The ID of first Intelligent 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 re- ceived)	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 of front LH tire transmitter is registered	Done
ID REGST FL1	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGI FRI	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID REGOT RET	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DUZZER	Tire pressure warning alarm is sounding	On

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



	inal No.	Description				Value
(vvire +	e color) -	Signal name	Input/ Output		Condition	(Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
2 (GR)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	Battery voltage
3 (L)	Ground	P/W power supply (IGN)	Output	Ignition switch ON	l	Battery voltage
					o battery saver is activated. room lamp power supply)	0 V
4 (P)	Ground	Interior room lamp power supply	Output	ed.	b battery saver is not activat-	Battery voltage
5		d Passenger door UN- LOCK	0.1.1	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
(G)	Ground		Output		Other than UNLOCK (Actuator is not activated)	0 V
7	Ground	Step lamp control	Output	Step lamp	ON	0 V
(W)	Ground	Step lamp control	Output	Step lamp	OFF	Battery voltage
8	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activat- ed)	Battery voltage
(V)	Ground				Other than LOCK (Actuator is not activated)	0 V
9		Crownd Dr	Deivenderen	UNLOCK (Actuator is activated)	Battery voltage	
(G)	Ground	Driver door UNLOCK	Output	Driver door	Other than UNLOCK (Actuator is not activated)	0 V
11 (LG)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON	l	0 V
					OFF	0 V
14 (O)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brighten- ing/dimming level is in the neutral position
15 (L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK and ON indi- cator lamps are not illumi- nated.)	JSNIA0010GB Battery voltage
					ACC	0 V

	inal No.	Description				Value	
(VVIr +	e color) -	Signal name	Input/ Output		Condition	(Approx.)	
					Turn signal switch OFF	0 V	
17 (G)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	10 0 1 s PKID0926E 6.5 V	
					Turn signal switch OFF	0 V	
18 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 0 1 1 1 1 1 1 1 1 1 1 1 1 1	
19 (C)	Ground	Interior room lamp	Output	Interior room	OFF	Battery voltage	
(G)		control		lamp (ON	0 V	
23		Trunk lid open	runk lid open Output	t Trunk lid	OPEN (Trunk lid opener actuator is activated)	Battery voltage	
(Y)	Ground				Other than OPEN (Trunk lid opener actuator is not acti- vated)	0 V	
30	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0 V	
(L)	Cround	control	Caiput		OFF	12 V	
34	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1	
(W/R)	Clouid	ouna (-)	OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0063GB		

	inal No.	Description				Value
(vvire +	e color) –	Signal name	Input/ Output		Condition	(Approx.)
35	Ground	Trunk room antenna		utput Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 0 1 1 1 5 0 JMKIA0062GB
(B/R)		(+)			When Intelligent Key is not in the passenger compart- ment	(V) 15 0 5 0 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
38	Ground	Rear bumper anten-	Output	When the back door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(G)	Ground	na (-)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 1 1 1 5 JMKIA0063GB
39	Ground	d Rear bumper anten- na (+)	Output	When the back door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(R)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage
(L)		E/R) control		-	ON	0 V

Terminal No.	Description				Value	
(Wire color) + –	Signal name	Input/ Output		Condition	(Approx.)	
49 Y) Ground	Trunk key cylinder switch	Input	Trunk key cylin- der switch	OFF	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	
				ON (TRUNK OPEN)	0 V	
50 R) Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk lid is closed)	(V) 15 0 10 10 ms JPMIA0011GB 11.8 V	
				ON (Trunk lid is opened)	0 V	
		Output	Ignition switch	When selector lever is in P or N position	Battery voltage	
52 R) Ground	Starter relay control		ON	When selector lever is not in P or N position	0.3 V	
			Ignition switch OF	F	0 V	
60 Ground	Push-button ignition switch (push switch)	Input	Push-button igni- tion switch (push switch)	Pressed	0 V	
BR) Ground				Not pressed	Battery voltage	
				ON (Pressed)	0 V	
61 Y) Ground	Trunk lid opener re- quest switch	Input	Trunk lid opener request switch	OFF (Not pressed)	(V) 15 0 10 10 10 10 10 10 JPMIA0016GB 1.0 V	
	Warning buzzer con-	Output	Warning buzzer	Sounding	0 V	
Ground	trol			Not sounding	Battery voltage	
				Pressed	0 V	
67 L) Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB	
		opener	Input		INDUL	

		minal No. Description				Value
(VVire +	e color)	Signal name	Input/ Output			(Approx.)
72		Room antenna (-)	Output Ignition switch OFF	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 0 1 s JMKIA0062GB
(B)		(Console)		OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 10 5 0 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
73	Ground	nd Room antenna (+) (Console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Ground				When Intelligent Key is not in the passenger compart- ment	(V) 15 0 1 1 1 1 1 1 1 1 1 1 1 1 1
74	Ground	round Passenger door an- tenna (-) Output		When the pas- senger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(Y)	Ground		quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 0 5 0 1 s JMKIA0063GB	

	inal No.	Description				Value	٨
(Wire +	e color) –	Signal name	Input/ Output		Condition	(Approx.)	А
75		Passenger door an-		When the pas- senger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C D
(LG)	Ground	tenna (+)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 0 1 1 1 1 5 0 1 5 0 1 5 0 1 5 0 1 5 0 1 5 0 1 5 0 1 5 0 1 5 0 1 1 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1	E
76	Ground	Driver door antenna (-)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	G H
(V)	Ciouna				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	J K L
77	Ground	Driver door antenna (+) Output	Outout	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	BCS N
(P)	Ground		switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	P	

	inal No.	Description				Value
(Wire +	e color)	Signal name	Input/ Output		Condition	(Approx.)
80 (SB)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (O)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (BR)	Ground	Ignition relay [fuse block (J/B)] control	Output	Ignition switch	OFF or ACC ON	0 V Battery voltage
83	83 (P) Ground		Input/	During waiting		(V) 15 0 1 ms JMKIA0064GB
			Output	When operating ei	ther button on Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB
	Ground	ound Combination switch INPUT 5 Input	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 <i>2</i> ms JPMIA0041GB 1.4 V
87 (R)					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0037GB 1.3 V
				Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 0 2 ms JPMIA0040GB 1.3 V	

	inal No.	Description	Description			Value	
(Wire +	e color) –	Signal name	Input/ Output		Condition	Value (Approx.)	A
				put Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 0 2.ms. JPMIA0041GB 1.4 V	B C D
88	Ground	Combination switch	laput		Lighting switch HI (Wiper intermittent dial 4)	15 0 2 ms JPMIA0036GB	E
(GR)		INPUT 3	mput		Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0037GB 1.3 V	G H I
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	J K L
90 (P)	Ground	CAN - L	Input/ Output		_	_	
91 (L)	Ground	CAN - H	Input/ Output		_	_	BCS
92 (R)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF Blinking ON	Battery voltage	N O P
93 (P)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK and ACC indi- cator lamps are not illumi- nated.)	Battery voltage	
						Č V	

	ninal No. e color)	Description				Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
95	Ground	Accessory relay con-	Output	Ignition switch	OFF	0 V	
(L)	Ground	trol	Output	Ignition switch	ACC or ON	Battery voltage	
96 (Y)	Ground	CVT shift selector (detention switch) power supply	Output		_	Battery voltage	
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V	
(V)	Croana	tion switch	mput		Any position other than P	Battery voltage	
					ON (Pressed)	0 V	
100 (P) G	Ground	Passenger door re- quest switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 10 10 10 10 10 10 10 10 10 10	
					ON (Pressed)	0 V	
101 (W)	Ground	Driver door request switch	Input	Driver door re- quest switch	OFF (Not pressed)	(V) 15 10 10 10 10 1.0 V	
102	Ground	Blower relay control	Qutput	Ignition switch	OFF or ACC	0 V	
(Y)	Ground	Diower relay control	Output	ignition switch	ON	Battery voltage	
103 (L)	Ground	Remote keyless entry receiver (front) power supply	Output	Ignition switch OF	F	Battery voltage	
105 (L)	Ground	Remote keyless entry receiver (rear) power supply	Output	Ignition switch OF	F	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	٨
(Wir +	e color) –	Signal name	Input/ Output		Condition	(Approx.)	А
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C D
					Turn signal switch LH	(V) 15 0 2 ms JPMIA0037GB 1.3 V	E
107 (O)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 0 2 ms JPMIA0036GB 1.3 V	G H
					Front wiper switch LO	(V) 15 10 2 ms JPMIA0038GB 1.3 V	J K L
					Front washer switch ON	(V) 15 10 2 ms JPMIA0039GB 1.3 V	BCS

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
	Ground	Combination switch INPUT 4 Input		put Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
108					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0038GB 1.3 V
(P)					Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0036GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 0 2 ms JPMIA0039GB 1.3 V

BCM	
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	inal No.	Description) (= h · · -	
(Wire +	e color) –	Signal name	Input/ Output		Condition	Value (Approx.)	А
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C D
					Lighting switch PASS	(V) 15 10 2 ms JPMIA0037GB 1.3 V	E F
109 (SB)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 0 2 ms JPMIA0036GB 1.3 V	H
					Front wiper switch INT/ AUTO	(V) 15 0 2 ms JPMIA0038GB 1.3 V	J K L
					Front wiper switch HI	(V) 15 0 2 ms JPMIA0040GB 1.3 V	BC:
					ON	0 V	0
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 0 10 10 10 11 JPMIA0012GB 1.1 V	Ρ

113 (O) Gro 116 (GR) Gro	round round	Signal name Optical sensor Stop lamp switch 1 Stop lamp switch 2	Input/ Output Input Input	Ignition switch ON Stop lamp switch	Condition When bright outside of the vehicle When dark outside of the vehicle — OFF (Brake pedal is not	Value (Approx.) Close to 5 V Close to 0 V Battery voltage
(O) Gro 116 (GR) Gro 118 Gro	round	Stop lamp switch 1	Input	ŌN	vehicle When dark outside of the vehicle	Close to 0 V
(O) 116 (GR) Gro 118 Gro	round	Stop lamp switch 1	Input		vehicle —	
(GR) Gro				Stop Jamp switch		Battery voltage
	round	Stop lamp switch 2	Input	Stop Jamp switch	OFF (Brake pedal is not	
(L)			input		depressed)	0 V
					ON (Brake pedal is de- pressed)	Battery voltage
119 (W) Gro	round	Front door lock as- sembly driver side (Unlock sensor)	Input	Driver door	LOCK status (unlock sen- sor switch OFF)	(V) 15 10 10 10 10 10 11 10 11 10 10
					UNLOCK status (unlock sensor switch ON)	0 V
121 Gro	round	Key slot switch	Input	When Intelligent K	ey is inserted into key slot	Battery voltage
(Y) 010	ouna		input	When Intelligent K	ey is not inserted into key slot	0 V
123 (G) Gro	round	IGN feedback	Input	Ignition switch	OFF or ACC ON	0 V Battery voltage
124	round	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closes)	(V) 15 10 10 ms JPMIA0011GB 11.8 V
					ON (When passenger door opens)	0 V
129 (O) Gro	round	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 10 10 10 10 11 11 12 12 12 12 12 12 12 12
					ON	0 V

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	
(VVir +	e color) –	Signal name Signal name		(Approx.)			
132 (V)	Ground	Soft top control unit communication	Input/ Output	Ignition switch ON Ignition switch OFF or ACC		(V) 15 0 5 0 10 ms JPMIA0013GB 10.2 V	
						Battery voltage	
					ON (When tail lamps OFF)	9.5 V	
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button igni- tion switch illumi- nation	ON (When tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination bright- ening/dimming level. (V) 15 10 5 0 JPMIA0159GB	
					OFF	0 V	
134 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF (ACC and ON indica- tor lamps are not illuminat- ed.)	Battery voltage	
					ON	0 V	
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V	
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V	
(V)	Giounu	power supply	Juipui	ignition switch	ACC or ON	5.0 V	

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BCS

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Terminal No. (Wire color)		Description				Value
(Wire +	e color) -	Signal name	Input/ Output	Condition		(Approx.)
				Ignition switch OFF	During waiting	(V) 10 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1
139 (O)	139 Cround Remote keyless entry receiver (rear) and Input/		(Remote keyless entry receiver communication)	When operating either but- ton on the Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB	
		communication		Ignition switch ON (Tire pressure re- ceiver communi- cation)	Standby state	(V) 6 4 2 0 • • 0.25 OCC3881D
					When receiving the signal from the transmitter	(V) 6 4 2 0 + 0.2s OCC3880D
140	Ground	Selector lever P/N	Input	Selector lever	P or N position	Battery voltage
(GR)		position	r **		Except P and N positions ON	0 V 0 V
141 (O)	Ground	Security indicator lamp control	Output	Security indicator lamp	Blinking	(V) 15 0 15 15 15 15 15 15 15 15 15 15
					OFF	Battery voltage

Terminal No.		Description				Value	
(Wire color) + –		Signal name Input/ Output			Condition	(Approx.)	
					All switches OFF Lighting switch 1ST	0 V	
142 (L)	Ground	Combination switch	Output	Combination switch (Wiper intermit-	Lighting switch HI Lighting switch 2ND		
(L)		0017013		tent dial 4)	Turn signal switch RH	2 ms JPMIA0031GB	
					All switches OFF (Wiper intermittent dial 4)	0 V	
					Front wiper switch HI (Wiper intermittent dial 4)	(V)[
143 (W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	15 10 50 2 ms JPMIA0032GB 10.7 V	
					All switches OFF (Wiper intermittent dial 4)	0 V	
					Front washer switch ON (Wiper intermittent dial 4)	(V)	
144 (P) Gro	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	15 0 2 ms JPMIA0033GB 10.7 V	
					All switches OFF	0 V	
					Front wiper switch INT/ AUTO	(V)	
145		Combination switch		Combination switch	Front wiper switch LO		
(V)	Ground	OUTPUT 3	Output	(Wiper intermit- tent dial 4)	Lighting switch AUTO	0 2 ms JPMIA0034GB	
					All switches OFF	10.7 V 0 V	
					Front fog lamp switch ON		
				Combination	Lighting switch 2ND	(V) 15	
146 (X)	Ground	Combination switch	Output	switch (Wiper intermit-	Lighting switch PASS		
(Y)		001P014	tent dial 4)	Turn signal switch LH	2 ms		

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire +	e color)	Signal name	Input/ Output		Condition	(Approx.)	
+	_		Output				
150 (SB)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	
					ON (When driver door opens)	0 V	
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V	
(G)	Cround	ger relay control	Calput	fogger	Not activated	Battery voltage	

Fail-safe

INFOID:000000008460430

FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch $ON \rightarrow OFF$
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistentStarter control relay signalStarter relay status signal
B2608: STARTER RELAY	Inhibit engine cranking	 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilledPower position changes to ACCReceives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM be- comes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization

DTC Inspection Priority Chart

INFOID:000000008460431

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

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM U1010: CONTROL UNIT(CAN)	
3	 B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING 	
	 B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS 	
4	 B2604: PNP/CLUTCH SW B2605: PNP/CLUTCH SW B2608: STARTER RELAY B260A: IGNITION RELAY B260F: ENG STATE SIG LOST B2614: BCM B2615: BCM 	
	 B2616: BCM B2617: BCM B2618: BCM B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED 	
	 C1704: FLAT TIRE FL C1705: FLAT TIRE FR C1706: FLAT TIRE RR C1707: FLAT TIRE RL C1708: [NO DATA] FL C1709: [NO DATA] FR 	
5	 C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT 	
6	B2622: INSIDE ANTENNA	•

DTC Index

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-12, "COM-</u><u>MON ITEM : CONSULT Function (BCM - COMMON ITEM)"</u>.

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NO DTC is detected. Inther testing may be required.	CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condi- tion	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
U1010: CONTROL UNIT(CAN) BCS-67 U0415: VEHICLE SPEED BCS-68 B2190: INTERINCE OF KEY X SEC-52 B2191: DISCORD BCM-ECM X SEC-53 B2193: CHAIN OF ECM-ECM X SEC-53 B2533: GNIN OF ECM-ECM X SEC-53 B2535: STOP LAMP X SEC-56 B2555: STOP LAMP X X SEC-56 B2557: VEHICLE SPEED X X X SEC-56 B2557: VEHICLE SPEED X X X SEC-56 B2562: CUW VOLTAGE X X SEC-53 B2603: SHIFT POSITION X X X SEC-56 B2604: PNP/CLUTCH SW X X X SEC-51 B2604: PNP/CLUTCH SW X X	further testing	_	_	_	_	
U0415: VEHICLE SPEED BCS-68 B2190: NATS ANTENNA AMP × SEC-52 B2191: DIFFERENCE OF KEY × SEC-53 B2192: ID DISCORD BCM-ECM × SEC-53 B2193: CHAIN OF BCM-ECM × SEC-54 B2195: ANTI SCANNING × SEC-55 B2555: IGNITION RELAY × SEC-58 B2555: ISSINENTION RELAY × SEC-59 B2555: ISSINENTINING × × SEC-58 B2555: ISSINENTINING × × SEC-52 B2565: ISSINENTON RELAY × × SEC-52 B2560: STARTER CONT RELAY × × SEC-52 B2601: SHIFT POSITION × × × SEC-53 B2602: SHIFT POSITION × × × SEC-51	U1000: CAN COMM	—		_	_	BCS-66
B2190: NATS ANTENNA AMP × SEC-49 B2191: DIFFERENCE OF KEY × SEC-52 B2192: ID DISCORD BCM-ECM × SEC-53 B2192: ID DISCORD BCM-ECM × SEC-53 B2193: ANT SCANNING × SEC-53 B2555: STOP LAMP × SEC-56 B2555: STOP LAMP × SEC-58 B2557: VEHICLE SPEED × × SEC-62 B2560: STARTER CONT RELAY × × SEC-62 B2601: SHIFT POSITION × × SEC-63 B2602: SHIFT POSITION × × SEC-62 B2601: SHIFT POSITION × × SEC-73 B2603: SHIFT POSITION × × SEC-71 B2604: PMP/CLUTCH SW × ×	U1010: CONTROL UNIT(CAN)	—	_	_	_	BCS-67
B2191: DIFFERENCE OF KEY × SEC.52 B2192: ID DISCORD BCM-ECM × SEC.53 B2193: CHAIN OF BCM-ECM × SEC.53 B2193: CHAIN OF BCM-ECM × SEC.53 B2533: IGNTION RELAY PCS.50 B2555: STOP LAMP × SEC.53 B2557: VEHICLE SPEED × × × SEC.62 B2567: VEHICLE SPEED × × BCS.59 B2601: SHIFT POSITION × × SEC.62 B2602: SHIFT POSITION × × SEC.63 B2603: SHIFT POSITION × × SEC.62 B2604: PNP/CLUTCH SW × × SEC.71 B2608: STARTER RELAY × × SEC.72 B2608: STARTER RELAY × × SEC.73 <td>U0415: VEHICLE SPEED</td> <td>—</td> <td>—</td> <td>_</td> <td>_</td> <td>BCS-68</td>	U0415: VEHICLE SPEED	—	—	_	_	BCS-68
B2192: ID DISCORD BCM-ECM × - - - SEC-53 B2193: CHAIN OF BCM-ECM × - - - SEC-54 B2193: ANTI SCANINING × - - - SEC-55 B2555: IGNITION RELAY - × - - PCS-50 B2555: STOP LAMP - × - SEC-58 B2555: VEHICLE SPEED × × - SEC-61 B2560: STARTER CONT RELAY × × - SEC-62 B2560: STARTER CONT RELAY × × - SEC-63 B2601: SHIFT POSITION × × - SEC-63 B2603: SHIFT POSITION × × - SEC-63 B2604: PNP/CLUTCH SW × × × - SEC-75 B2605: PNP/CLUTCH SW × × × - SEC-75 B2606: PNP/CLUTCH SW × × - SEC-75 B2606: STARTER RELAY × × - SE	B2190: NATS ANTENNA AMP	×	—	—	—	<u>SEC-49</u>
B2193: CHAIN OF BCM-ECM × SEC.54 B2193: ANTI SCANNING × SEC.65 B2553: IGNITION RELAY × PCS.50 B2555: STOP LAMP × SEC.65 B2555: VUSH-BTN IGN SW × SEC.61 B2560: STARTER CONT RELAY × × SEC.62 B2560: STARTER CONT RELAY × × BCS.69 B2601: SHIFT POSITION × × SEC.62 B2602: SHIFT POSITION × × SEC.63 B2603: SHIFT POSITION × × SEC.71 B2604: PNP/CLUTCH SW × × SEC.72 B2603: SINFT POSITION RELAY × × SEC.73 B2604: PNP/CLUTCH SW × × SEC.71 B2605: STARTER RELAY × × SEC.72 B2604: IGNITION RELAY ×	B2191: DIFFERENCE OF KEY	×	—	—	—	<u>SEC-52</u>
B2195: ANTI SCANNING × SEC_55 B2553: IGNITION RELAY × PCS_50 B2555: STOP LAMP × SEC_56 B2556: PUSH-BTN IGN SW × × SEC_61 B2565: VEHICLE SPEED × × × SEC_61 B2565: IOW VOLTAGE × SEC_61 B2601: SHIFT POSITION × × × SEC_61 B2602: SHIFT POSITION × × × SEC_61 B2603: SHIFT POSITION × × × SEC_61 B2604: PNP/CLUTCH SW × × × SEC_71 B2605: PNF/CLUTCH SW × × × SEC_72 B2604: PNP/CLUTCH SW × × × SEC_71 B2605: PNF/CLUTCH SW × × SEC_72 B26060: ENP/CLUTCH	B2192: ID DISCORD BCM-ECM	×	—	—	—	<u>SEC-53</u>
B2553: IGNITION RELAY PCS-50 B2555: STOP LAMP × SEC-56 B2555: PUSH-BTN IGN SW × × SEC-56 B2557: VEHICLE SPEED × × × SEC-61 B2560: STARTER CONT RELAY × × × BCS-63 B2601: SHIFT POSITION × × BCS-63 B2602: SHIFT POSITION × × SEC-63 B2603: SHIFT POSITION × × SEC-63 B2604: PNP/CLUTCH SW × × SEC-71 B2605: STARTER RELAY × × SEC-71 B2606: STARTER RELAY × × SEC-75 B2608: STARTER RELAY × × SEC-75 B2606: IGNITION RELAY × × SEC-75 B2607: INTION RELAY × × SEC-75 B2608: IGNITION RELAY	B2193: CHAIN OF BCM-ECM	×	_	_	_	<u>SEC-54</u>
B2555: STOP LAMP × - SEC-56 B2556: PUSH-BTN IGN SW × × SEC-58 B2557: VEHICLE SPEED × × × SEC-59 B2560: STARTER CONT RELAY × × × SEC-62 B2601: SHIFT POSITION × × SEC-63 B2602: SHIFT POSITION × × × SEC-63 B2603: SHIFT POSITION × × SEC-65 B2603: SHIFT POSITION × × SEC-65 B2604: PNP/CLUTCH SW × × SEC-71 B2605: PNP/CLUTCH SW × × SEC-71 B2608: STARTER RELAY × × SEC-75 B2604: IGNITION RELAY × × SEC-75 B2604: IGNTION RELAY × × SEC-77 B2614: BCM × × <td>B2195: ANTI SCANNING</td> <td>×</td> <td>_</td> <td>_</td> <td>_</td> <td><u>SEC-55</u></td>	B2195: ANTI SCANNING	×	_	_	_	<u>SEC-55</u>
B2556: PUSH-BTN IGN SW × × SEC-59 B2557: VEHICLE SPEED × × × × SEC-61 B2560: STARTER CONT RELAY × × × × SEC-62 B2560: STARTER CONT RELAY × × × BC-62 B2601: SHIFT POSITION × × BC-63 B2602: SHIFT POSITION × × SEC-63 B2603: SHIFT POSITION × × SEC-61 B2603: SHIFT POSITION × × SEC-63 B2604: PNP/CLUTCH SW × × SEC-71 B2605: STARTER RELAY × × SEC-72 B2606: PNP/CLUTCH SW × × × SEC-75 B2607: PNP/CLUTCH SW × × × SEC-71 B2606: PNP/CLUTCH SW × × × SEC-75 B26061: BCM -	B2553: IGNITION RELAY	—	×	—	—	PCS-50
B2557: VEHICLE SPEED ×	B2555: STOP LAMP	—	×	_	_	<u>SEC-56</u>
B2560: STARTER CONT RELAY × × × - SEC.62 B2562: LOW VOLTAGE × BCS.69 B2601: SHIFT POSITION × × SEC.63 B2602: SHIFT POSITION × × × SEC.63 B2602: SHIFT POSITION × × × SEC.65 B2603: SHIFT POSITION × × × SEC.65 B2604: PNP/CLUTCH SW × × × SEC.75 B2606: STARTER RELAY × × SEC.77 </td <td>B2556: PUSH-BTN IGN SW</td> <td>—</td> <td>×</td> <td>×</td> <td>_</td> <td><u>SEC-59</u></td>	B2556: PUSH-BTN IGN SW	—	×	×	_	<u>SEC-59</u>
B2562: LOW VOLTAGE - × - - BCS-63 B2601: SHIFT POSITION × × × - SEC-63 B2602: SHIFT POSITION × × × - SEC-63 B2603: SHIFT POSITION × × × - SEC-65 B2603: SHIFT POSI STATUS × × × - SEC-61 B2604: PNP/CLUTCH SW × × × - SEC-71 B2605: PNP/CLUTCH SW × × × - SEC-73 B2604: GINITION RELAY × × × - SEC-75 B2605: ENG STATE SIG LOST × × × - SEC-75 B2606: ENG STATE SIG LOST × × × - SEC-77 B2616: BCM - × × - PCS-561 B2616: BCM - × × - PCS-561 B2616: BCM - × × - PCS-63	B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-61</u>
B2601: SHIFT POSITION ×	B2560: STARTER CONT RELAY	×	×	×	_	<u>SEC-62</u>
B2602: SHIFT POSITION ×	B2562: LOW VOLTAGE	—	×	_	_	BCS-69
B2603: SHIFT POSI STATUS × <td>B2601: SHIFT POSITION</td> <td>×</td> <td>×</td> <td>×</td> <td>_</td> <td><u>SEC-63</u></td>	B2601: SHIFT POSITION	×	×	×	_	<u>SEC-63</u>
B2604: PNP/CLUTCH SW × × × × × × × SEC-71 B2605: PNP/CLUTCH SW × × × × × - SEC-73 B2608: STARTER RELAY × × × × - SEC-75 B2608: STARTER RELAY × × × - PCS-52 B2607: ENG STATE SIG LOST × × × - PCS-52 B2614: BCM × × - PCS-54 B2615: BCM × × - PCS-57 B2616: BCM × × - PCS-56 B2617: BCM × × × - PCS-63 B2618: BCM × × × - PCS-63 B2618: PUSH-BTN IGN SW × × - PCS-63 B2612: INSIDE ANTENNA - × × - PCS-64 B2622: INSIDE ANTENNA - × <td>B2602: SHIFT POSITION</td> <td>×</td> <td>×</td> <td>×</td> <td>_</td> <td><u>SEC-65</u></td>	B2602: SHIFT POSITION	×	×	×	_	<u>SEC-65</u>
B2605: PNP/CLUTCH SW ×	B2603: SHIFT POSI STATUS	×	×	×	_	<u>SEC-68</u>
B2608: STARTER RELAY ×	B2604: PNP/CLUTCH SW	×	×	×	_	<u>SEC-71</u>
B260A: IGNITION RELAY ×	B2605: PNP/CLUTCH SW	×	×	×	_	<u>SEC-73</u>
B260F: ENG STATE SIG LOST × <td>B2608: STARTER RELAY</td> <td>×</td> <td>×</td> <td>×</td> <td>_</td> <td><u>SEC-75</u></td>	B2608: STARTER RELAY	×	×	×	_	<u>SEC-75</u>
B2614: BCM — × × — PCS-54 B2615: BCM — × × — PCS-57 B2616: BCM — × × — PCS-57 B2616: BCM — × × — PCS-60 B2617: BCM × × × — PCS-60 B2617: BCM × × × — PCS-63 B2618: BCM × × × — PCS-63 B2618: BCM × × × — PCS-63 B2618: PUSH-BTN IGN SW — × × — PCS-63 B2618: PUSH-BTN IGN SW — × × — PCS-64 B2618: VEHICLE TYPE × × × — PCS-64 B2612: INSIDE ANTENNA — × × — PCS-64 B2622: INSIDE ANTENNA — × — — DLK-51 B2623: INSIDE ANTENNA — <td< td=""><td>B260A: IGNITION RELAY</td><td>×</td><td>×</td><td>×</td><td>_</td><td>PCS-52</td></td<>	B260A: IGNITION RELAY	×	×	×	_	PCS-52
B2615: BCM × × PCS-57 B2616: BCM × × - PCS-60 B2617: BCM × × × - PCS-60 B2617: BCM × × × - PCS-60 B2617: BCM × × × - SEC-78 B2618: BCM × × × - PCS-63 B2618: PUSH-BTN IGN SW - × × - PCS-64 B2618: VEHICLE TYPE × × × (Turn ON for 15 seconds) - SEC-82 B2622: INSIDE ANTENNA - × - - DLK-51 B2623: INSIDE ANTENNA - × - - DLK-53 B26EA: KEY REGISTRATION - × ×(Turn ON for 15 seconds) - SEC-83 C1704: FLAT TIRE FL - - - × × C1705: FLAT TIRE FR - - - × <td< td=""><td>B260F: ENG STATE SIG LOST</td><td>×</td><td>×</td><td>×</td><td>_</td><td><u>SEC-77</u></td></td<>	B260F: ENG STATE SIG LOST	×	×	×	_	<u>SEC-77</u>
B2616: BCM × × - PCS-60 B2617: BCM × × × × - SEC-78 B2618: BCM × × × × - PCS-63 B2618: BCM × × × × - PCS-63 B2618: PUSH-BTN IGN SW - × × - PCS-64 B2618: VEHICLE TYPE × × × (Turn ON for 15 seconds) - SEC-82 B2622: INSIDE ANTENNA - × - - DLK-51 B2623: INSIDE ANTENNA - × - - DLK-53 B2623: INSIDE ANTENNA - × - - DLK-53 B26EA: KEY REGISTRATION - × ×(Turn ON for 15 seconds) - SEC-83 C1704: FLAT TIRE FL - - - × × YT-21 C1705: FLAT TIRE FR - - - × × YT-21	B2614: BCM	—	×	×	_	PCS-54
B2617: BCM ×	B2615: BCM	—	×	×	_	PCS-57
B2618: BCM × × × × × - PCS-63 B261A: PUSH-BTN IGN SW - × × - PCS-64 B261E: VEHICLE TYPE × × × × - PCS-64 B2612: INSIDE ANTENNA - × × (Turn ON for 15 seconds) - SEC-82 B2622: INSIDE ANTENNA - × - - DLK-51 B2623: INSIDE ANTENNA - × - - DLK-53 B2623: INSIDE ANTENNA - × - - DLK-53 B26EA: KEY REGISTRATION - × (Turn ON for 15 seconds) - SEC-83 C1704: FLAT TIRE FL - - - × YT-21 C1706: FLAT TIRE RR - - - × YT-21	B2616: BCM	—	×	×	—	PCS-60
B261A: PUSH-BTN IGN SW $ \times$ \times $-$ PCS-64B261E: VEHICLE TYPE \times \times \times $(Turn ON for 15 seconds)$ $-$ SEC-82B2622: INSIDE ANTENNA $ \times$ $ DLK-51$ B2623: INSIDE ANTENNA $ \times$ $ DLK-53$ B26EA: KEY REGISTRATION $ \times$ \times $ DLK-53$ C1704: FLAT TIRE FL $ \times$ \times C1705: FLAT TIRE FR $ \times$ \times C1706: FLAT TIRE RR $ \times$ WT-21 $ \times$	B2617: BCM	×	×	×	—	<u>SEC-78</u>
B261E: VEHICLE TYPE × × × (Turn ON for 15 seconds) - SEC-82 B2622: INSIDE ANTENNA - × - - DLK-51 B2623: INSIDE ANTENNA - × - - DLK-51 B2623: INSIDE ANTENNA - × - - DLK-53 B2623: INSIDE ANTENNA - × - - DLK-53 B26EA: KEY REGISTRATION - × (Turn ON for 15 seconds) - SEC-83 C1704: FLAT TIRE FL - - - × × (Turn ON for 15 seconds) - SEC-83 C1704: FLAT TIRE FR - - - × × YT-21 C1706: FLAT TIRE RR - - - × YT-21 YT-21	B2618: BCM	×	×	×	_	PCS-63
B261E: VEHICLE TYPE × × × × seconds) - SEC-82 B2622: INSIDE ANTENNA - × - - DLK-51 B2623: INSIDE ANTENNA - × - - DLK-51 B2623: INSIDE ANTENNA - × - - DLK-53 B2623: INSIDE ANTENNA - × - 0 DLK-53 B26EA: KEY REGISTRATION - × × (Turn ON for 15 seconds) - SEC-83 C1704: FLAT TIRE FL - - - × × C1705: FLAT TIRE FR - - × WT-21 C1706: FLAT TIRE RR - - × WT-21	B261A: PUSH-BTN IGN SW	—	×	×	_	PCS-64
B2623: INSIDE ANTENNA - × - - DLK-53 B26EA: KEY REGISTRATION - × (Turn ON for 15 seconds) - SEC-83 C1704: FLAT TIRE FL - - - × X Ymmodel C1705: FLAT TIRE FR - - - × Ymmodel Ymmodel C1706: FLAT TIRE RR - - - × Ymmodel Ymmodel	B261E: VEHICLE TYPE	×	×		_	<u>SEC-82</u>
B26EA: KEY REGISTRATION - × × (Turn ON for 15 seconds) - SEC-83 C1704: FLAT TIRE FL - - - ×	B2622: INSIDE ANTENNA	-	×	—	—	DLK-51
B26EA: KEY REGISTRATION — X seconds) — SEC-83 C1704: FLAT TIRE FL — — — X Seconds) — SEC-83 C1704: FLAT TIRE FL — — — X X Y </td <td>B2623: INSIDE ANTENNA</td> <td>_</td> <td>×</td> <td></td> <td></td> <td>DLK-53</td>	B2623: INSIDE ANTENNA	_	×			DLK-53
C1705: FLAT TIRE FR — — — × C1706: FLAT TIRE RR — — — ×	B26EA: KEY REGISTRATION	_	×	•	_	<u>SEC-83</u>
C1706: FLAT TIRE RR — — — WT-21	C1704: FLAT TIRE FL	_	_		×	
C1706: FLAT TIRE RR — — — ×	C1705: FLAT TIRE FR	_	_		×	
C1707: FLAT TIRE RL ×	C1706: FLAT TIRE RR	_	_		×	<u>WT-21</u>
	C1707: FLAT TIRE RL	_	_		×	

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condi- tion	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	A
C1708: [NO DATA] FL	—	—	_	×		
C1709: [NO DATA] FR	—	—	_	×	WT-23	С
C1710: [NO DATA] RR	—	—	—	×	<u>VV1-23</u>	0
C1711: [NO DATA] RL	—	—	—	×		
C1716: [PRESSDATA ERR] FL	—	—	—	×		D
C1717: [PRESSDATA ERR] FR	—	—	_	×	WT-26	
C1718: [PRESSDATA ERR] RR	—	—	—	×	<u>vv1-20</u>	E
C1719: [PRESSDATA ERR] RL	—	—	—	×		
C1729: VHCL SPEED SIG ERR	—	—	—	×	<u>WT-27</u>	
C1734: CONTROL UNIT	—	—	_	×	<u>WT-28</u>	F

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WIRING DIAGRAM

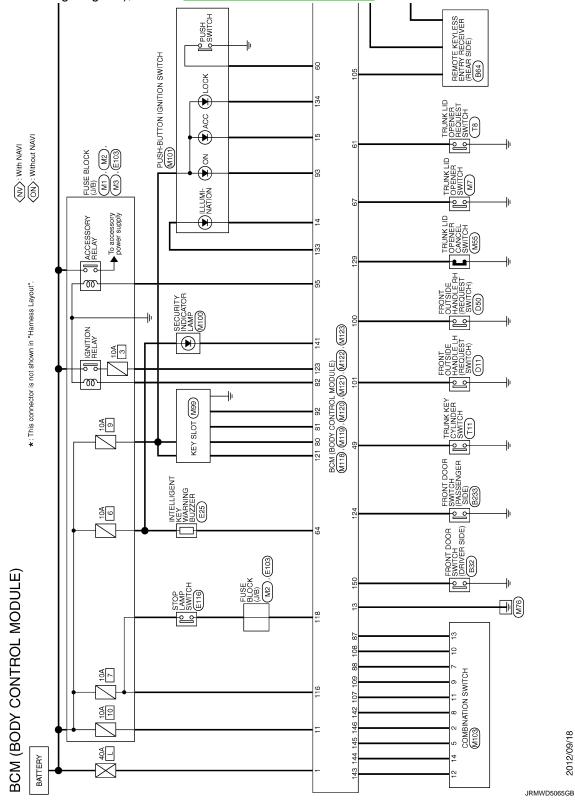
BCM

Wiring Diagram

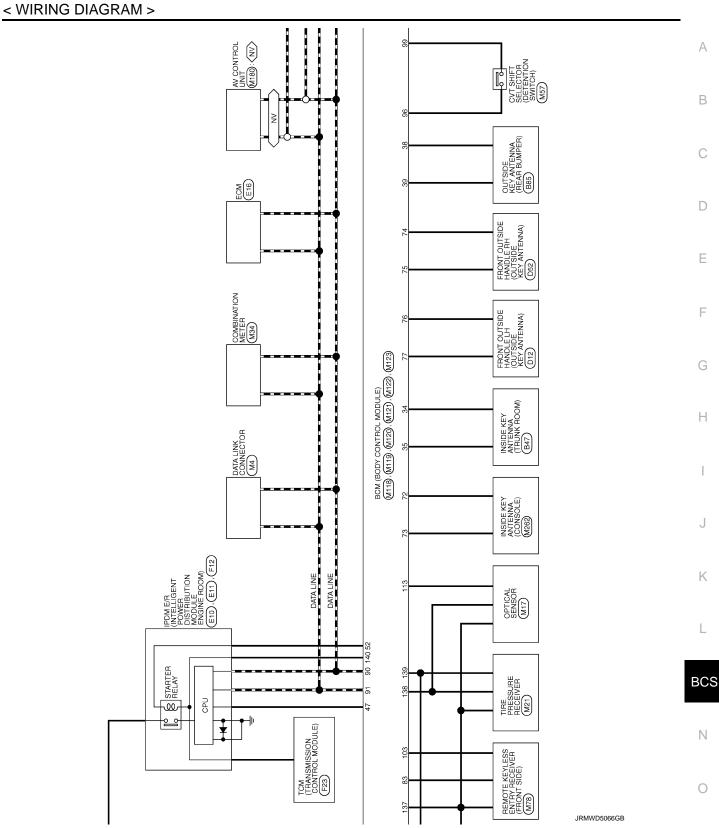
INFOID:000000008460433

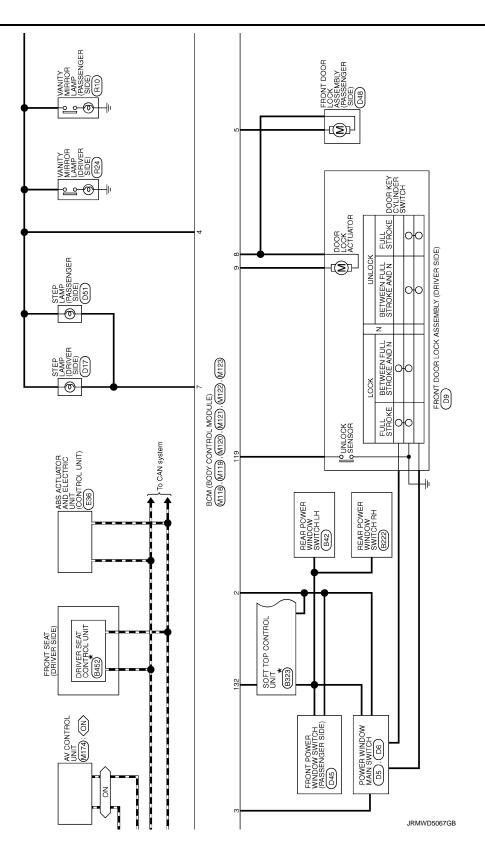
For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to <u>GI-12, "Connector Information"</u>.

BCM



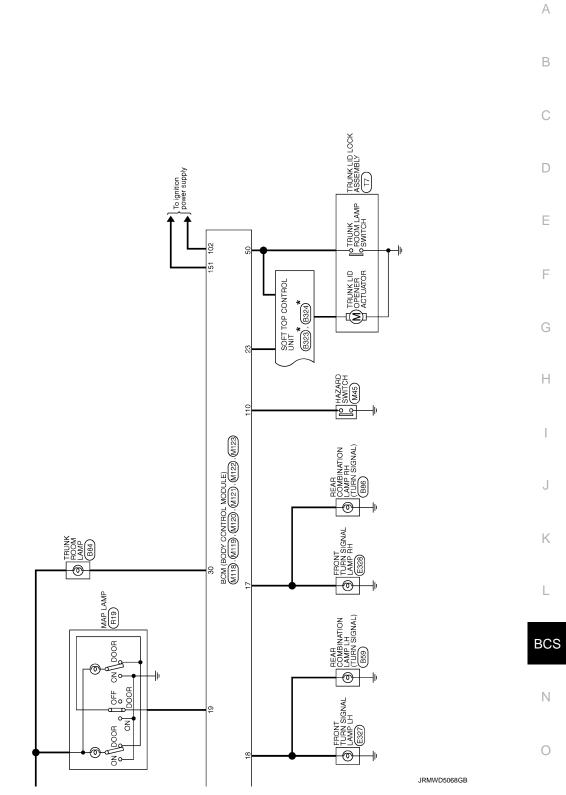
Revision: 2012 October





< WIRING DIAGRAM >

BCM



ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

< BASIC INSPECTION >

BASIC INSPECTION

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

Description

INFOID:000000008460434

BEFORE REPLACEMENT

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

NOTE:

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

AFTER REPLACEMENT

CAUTION:

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

• Complete the procedure of "WRITE CONFIGURATION" in order.

• Configuration is different for each vehicle model. Confirm configuration of each vehicle model.

• If you set incorrect "WRITE CONFIGURATION", incidents might occur.

NOTE:

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

Work Procedure

INFOID:000000008460435

1.SAVING VEHICLE SPECIFICATION

CONSULT Configuration

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>BCS-63, "Descrip-</u> tion".

NOTE:

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

>> GO TO 2.

2.REPLACE BCM

Replace BCM. Refer to <u>BCS-77, "Removal and Installation"</u>.

>> GO TO 3.

3.WRITING VEHICLE SPECIFICATION

CONSULT Configuration

Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to <u>BCS-63, "Work Procedure"</u>.

>> GO TO 4.

4.INITIALIZE BCM (NATS) (IF EQUIPPED)

Perform BCM initialization. (NATS)

>> WORK END

CONFIGURATION (BCM)

< BASIC INSPECTION >

CONFIGURATION (BCM)

Description

INFOID:000000008460436

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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 be Automatic setting item: Items which are written in For some models and specifications, the automat CAUTION: When replacing BCM, always perfor 3CM control function does not operate Complete the procedure of "WRITE Configuration is different for each ve Never perform "WRITE CONFIGURA	by vehicle specifications automatically (Setting can not be changed) ic setting item may not be displayed. m "WRITE CONFIGURATION" with CONSULT. Or not doing so, te normally. CONFIGURATION" in order. ehicle model. Confirm configuration of each vehicle model. ATION" except for new BCM.
If you set incorrect "WRITE CONFIG Nork Procedure	SURATION", incidents might occur.
1.WRITING MODE SELECTION	
CONSULT Configuration Select "CONFIGURATION" of BCM.	
When writing saved data>>GO TO 2. When writing manually>>GO TO 3.	
2. PERFORM "WRITE CONFIGURATIC	DN - CONFIG FILE"
CONSULT Configuration Perform "WRITE CONFIGURATION - Co	onfig file".
>> WORK END	
3. PERFORM "WRITE CONFIGURATIC	DN - MANUAL SELECTION"
 CONSULT Configuration Select "WRITE CONFIGURATION - Identify the correct model and config Confirm and/or change setting value CAUTION: 	guration list. Refer to BCS-64, "Configuration list".
Thoroughly read and understand if the setting is not correct. NOTE:	the vehicle specification. ECU control may not operate normally ETTING". Refer to <u>BCS-64, "Configuration list"</u> for written items and
setting value. 4. Select "SETTING". CAUTION:	
	ven if the indicated configuration of brand new BCM is same as t, configuration which is set automatically by selecting vehicle

< BASIC INSPECTION >

>> GO TO 4. 4.OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> WORK END

Configuration list

CAUTION:

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

MANUAL SET	TTING ITEM	NOTE	
Items	Setting value	NOTE	
HANDLE	LHD	-	
AUTO SETT		1	
Items	Setting value	- NOTE	
ROOF FUNCTION	W/ REQ SW	_	
CONNECTION RECEIVER SET	MODE2	_	
BATTERY SAVER FUNCTION MODE3		_	
TRANSIT MODE	WITH		
ACC BAT SAVE FUNC	MODE2	_	
DI LMP VARIAT	MODE4	-	
LIGHT RECOG	MODE7	-	
TRANSMISSION	AT with ABS	-	
RAIN SENSOR CONFIG	WITHOUT	_	
HAZARD SW TYPE	MODE1	-	
BCM AC CONTROL	MODE1	_	
TIRE PRESSURE	230kPa	-	

INFOID:000000008460438

SHIPPING MODE CANCEL OPERATION

< BASIC INSPECTION >

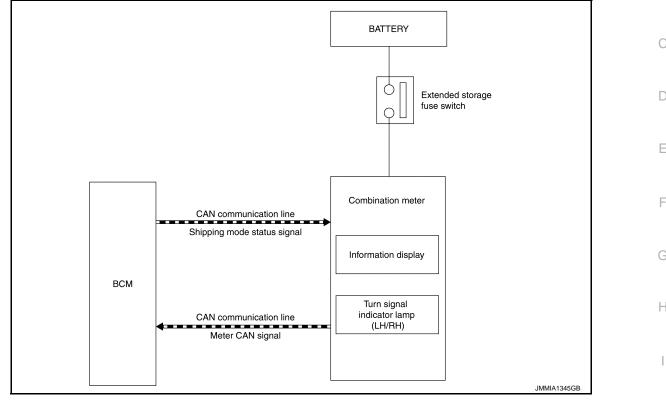
SHIPPING MODE CANCEL OPERATION

Description

INFOID:000000008973700

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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 K combination meter, and transmits shipping mode status signal to combination meter via CAN communication.
- The combination meter displays extended storage fuse warning message^{*2} on the information display, and turns the turn signal indicator lamp (LH/RH) ON, when BCM is in shipping mode.
- BCM control function is limited in shipping mode. Refer to <u>BCS-76. "Description"</u>.
- *1: Odometer signal, wake up signal and each signal.
- *2: When shipping mode function operates, "SHIPPING MODE ON PUSH STORAGE FUSE" is displayed.

Work Procedure

INFOID:000000008973701

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1.SHIPPING MODE CANCEL OPERATION

- 1. Turn ignition switch OFF.
- 2. Push in (switch on) the extended storage fuse switch. Refer to <u>PG-104, "How To Check"</u>.
- 3. Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 2 seconds.

>> GO TO 2.

2. SHIPPING MODE CANCEL CHECK

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

>> WORK END

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS U1000 CAN COMM

Description

INFOID:000000008460441

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

DTC Logic

INFOID:000000008460442

INFOID:000000008460443

DTC DETECTION LOGIC

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

Diagnosis Procedure

1.PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000" displayed?

- YES >> Refer to LAN-15. "Trouble Diagnosis Flow Chart".
- NO >> Refer to <u>GI-40, "Intermittent Incident"</u>.

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC Detection Condition	Possible cause	С
U1010	CONTROL UNIT(CAN)	BCM detected internal CAN communication circuit malfunction.	BCM	
Diagno	osis Procedure		INF0ID:00000008460445	D

1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to BCS-77, "Removal and Installation".

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INFOID:000000008460444

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U0415 VEHICLE SPEED

Description

INFOID:000000008460446

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:000000008460447

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.DTC CONFIRMATION

- 1. Erase the DTC.
- 2. Turn ignition switch OFF.
- 3. 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-68, "Diagnosis Procedure"</u>.
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008460448

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 <u>BRC-24, "DTC No. Index"</u>.

Is any DTC detected?

- YES >> Repair or replace the malfunctioning part.
- NO >> Replace BCM. Refer to <u>BCS-77, "Removal and Installation"</u>.

B2562 LOW VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

B2562 LOW VOLTAGE

DTC Logic

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INFOID:000000008460449

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 CON	VERMATION PROC	CEDURE	
1. отс с	ONFIRMATION		
1. Erase	DTC.		
	gnition switch OFF.	ic Result" of CONSULT, when passed 120 s	econds or more after the ignition
	n is turned ON.	is result of convocer, when passed 120 s	coords of more alter the ignition
<u>Is any DT</u>	C detected?		
	Refer to <u>BCS-69, "I</u> > INSPECTION END	<u>Diagnosis Procedure"</u> .	
Diagnos	sis Procedure		INFOID:00000008460450
1.CHECH	K POWER SUPPLY C	IRCUIT	
Check BC	M power supply circu	it. Refer to <u>BCS-70, "Diagnosis Procedure"</u> .	
	uit normal?		
	Replace BCM. Refe Repair the malfunct	er to <u>BCS-77, "Removal and Installation"</u> .	
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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000008460451

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	L
Dattery power supply	10

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

	Terminals			
(+)	(-)	Voltage (Approx.)	
B	СМ		(Approx.)	
Connector	Terminal	Ground	(Approx.)	
M118	1	Giouna	Dettern veltere	
M119	11		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.

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M119	13	† 	Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

< DTC/CII				IN	PUT C	IRCUIT		
Diagnos	is Proce	edure					INFOID:00000008460452	А
1. снеси			TEM C	RCU		OPEN		В
1. Turn t 2. Discor	he ignition	switch (BCM and	DFF. d combi	natio	n switch	connectors.	ombination switch harness connector.	С
	BC	CM	Cor	nbinat	tion switch			
System	Connector	Termina	I Conn	ector	Termina	Continuity		D
INPUT 1		107			11			
INPUT 2		109			9			Е
INPUT 3	M122	88	M1	03	7	Existed		
INPUT 4		108			10			
INPUT 5		87			13			F
	> GO TO : > Repair t	2. he harne				SHORT		G
Check for	continuity	betweer	BCM b	arne	ess conne	ector and gro	ound.	Н
System		BCM				Continuity		
Joystem	Connec	ctor T	erminal			Continuity		I
INPUT 1			107					
INPUT 2			109	G	Ground			J
INPUT 3	M122	2	88			Not existed		
INPUT 4			108					1.6
INPUT 5			87					K
NO > 3.CHECH	> Repair t > GO TO K BCM OU ect the BC	he harne 3. ITPUT V M conne	OLTAG	E		tor and grou	und.	L BCS
	-					-		
			minals					Ν
System		(+)		(-)	Voltage		
,		BCM				(Approx.)		0
	Connect		ninal					0
INPUT 1	_		07					
INPUT 2	_		09	Gro	bund	Refer to <u>BCS-</u>		Ρ
INPUT 3	M122		88			<u>32, "Refer-</u> ence Value".		
INPUT 4	_		08					
INPUT 5			37					
Is the mea	<u>surement</u> > GO TO -		ormal?					

YES >> GO TO 4.

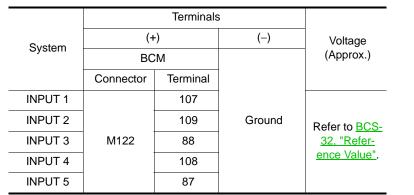
NO >> Replace BCM. Refer to <u>BCS-77. "Removal and Installation"</u>.

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK BCM INPUT SIGNAL

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



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

- YES >> Replace BCM. Refer to <u>BCS-77, "Removal and Installation"</u>.
- NO >> Replace the combination switch.

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIR	CUIT DIA	GNOSIS	>			
COMBI	NATION	I SWIT	CH OL	ITPUT	CIRCUIT	Δ
Diagnosi	s Proced	dure				INFOID:00000008460453
1. снеск	OUTPUT	1 - 5 SYS	STEM CIRC		ROPEN	В
2. Discon NOTE: BCM c	nect the B	CM and c	combination	nly.		
	BC	М	Combinat	tion switch		
System	Connector	Terminal	SWITCH OUTPUT CIRCUIT A Ife second condition of the system that is malfunctioning. 5 SYSTEM CIRCUIT FOR OPEN B M and combination switch connectors. C connects M123 only. C tween BCM harness connector and combination switch harness connector. D if into a switch connectors. C if into a switch connectors. C if into a switch connectors. E if into a switch connectors. E if if into a switch connectors. F if if into a switch connector. If into a switch connector. if if into a switch connector. If into a switch connector. if if into a switch connector. If into a switch connector. if the system that is malfunctioning. If into a switch harness connector and ground.			
OUTPUT 1		143		12		E
OUTPUT 2		144		14		
OUTPUT 3	M123	145	M103	5	Existed	F
OUTPUT 4		146		2		1
OUTPUT 5		142		8		
Does contir	nuity exist?	-				G
NO >> 2.CHECK	OUTPUT	e harness 1 - 5 SYS	STEM CIRC			H
		BCM				I
System	Connecto	or Tern	ninal		Continuity	
OUTPUT 1		14	43			J
OUTPUT 2	_	I SWITCH OUTPUT CIRCUIT dure 1 - 5 SYSTEM CIRCUIT FOR OPEN witch OFF. CM and combination switch connectors. isconnects M123 only. between BCM harness connector and combination switch harness connector. M Continuity 143 12 144 14 145 M103 2 8 e harnesses or connectors. 1 - 5 SYSTEM CIRCUIT FOR SHORT e ween BCM harness connector and ground. BCM Continuity 143 Ground 144 Ground 143 Mot existed				
OUTPUT 3	M123	14	45		Not existed	
OUTPUT 4		14	46			K
OUTPUT 5		14	42			
Does contir	nuity exist?					L
NO >>	• GO TO 3.	i				BC
2. Turn O 3. Check NOTE:	N any swit voltage be	ch in the tween co	system tha mbination	at is malfu switch ha	arness connector and ground.	
Check		nioirialiO	n Switch Ol		ignal nom combination switch input sys	o

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

		Terminals				
System	(+))	(–)	Value (Approx.)		
	Combinatio	on switch		Value (Approx.)		
	Connector	Terminal				
OUTPUT 1	-	12				
OUTPUT 2		14	Ground	(V) 15		
OUTPUT 3		5				
OUTPUT 4	M103	2		0		
OUTPUT 5		8		2 ms JPMIA0041GB 1.4 V		

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

YES >> Replace BCM. Refer to <u>BCS-77, "Removal and Installation"</u>.

NO >> Replace the combination switch.

COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

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 mo	nitor iter	n					on item: ×
Malfunction combination	FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	INT VOLUME	TURN SIGNAL R	TURN SIGNAL L	TAIL LAMP SW	HI BEAM SW	HEAD LAMP SW 1	HEAD LAMP SW 2	PASSING SW	AUTO LIGHT SW	FR FOG SW
А		×	×			×	×							
В	×			×						×		×		
С					×				×		×			
D					×			×					×	
Е					×									×
F	×				×									
G			×		×									
Н		×		×									×	
I							×				×	×		×
J						×		×	×	×				
К			1	1	1	1	All	tems	1	1	1	1	1	
L			If only	one iten	n is deteo	cted or th	e item is	not app	licable to	the com	binations	s A to K		

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

Malfunction combination	Malfunctioning part	Repair or replace	
А	Combination switch INPUT 1 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to <u>BCS-71, "Diagnosis Procedure"</u> .	L
В	Combination switch INPUT 2 circuit		
С	Combination switch INPUT 3 circuit		BCS
D	Combination switch INPUT 4 circuit		
Е	Combination switch INPUT 5 circuit		Ν
F	Combination switch OUTPUT 1 circuit	Inspect the combination switch output circuit applicable to the malfunction- ing part. Refer to <u>BCS-73, "Diagnosis Procedure"</u> .	
G	Combination switch OUTPUT 2 circuit		
Н	Combination switch OUTPUT 3 circuit		0
I	Combination switch OUTPUT 4 circuit		
J	Combination switch OUTPUT 5 circuit		
К	BCM	Replace BCM. Refer to BCS-77, "Removal and Installation".	Ρ
L	Combination switch	Replace the combination switch.	

А

В

С

Κ

INFOID:000000008460454

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

INFOID:000000008973702

SHIPPING MODE

- Shipping mode inhibits battery power consumption during transportation or storage of the vehicle. Vehicle is set to shipping mode before being shipped from the factory.
- When ignition switch is OFF, BCM operates shipping mode.
- BCM control function is limited in shipping mode. Remote keyless entry function is not operated during the shipping mode.
- For shipping mode cancel operation, refer to <u>BCS-65. "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 >	
REMOVAL AND INSTALLATION	А
BCM (BODY CONTROL MODULE)	\square
Removal and Installation	В
NOTE: Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>BCS-62. "Description"</u> .	С
REMOVAL	
1. Remove combination meter. Refer to <u>MWI-70, "Removal and Installation"</u> .	D
2. Remove screws.	
3. Remove BCM and disconnect the connector.	_
INSTALLATION Install in the reverse order of removal. CAUTION:	E
Be sure to perform "WRITE CONFIGURATION" when replacing BCM. Or not doing so, BCM control function does not operate normally. NOTE:	F
Be sure to perform the system initialization (NATS) when replacing BCM. Refer to <u>BCS-62. "Work Procedure"</u> .	G

Н

J

Κ

L

BCS

Ν

0

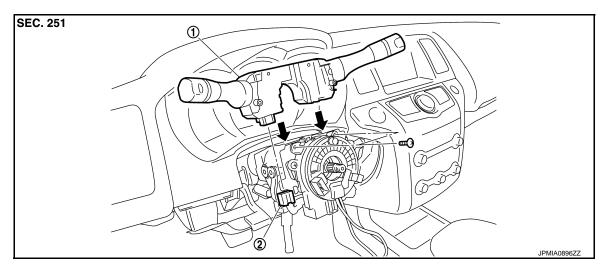
COMBINATION SWITCH

< REMOVAL AND INSTALLATION >

COMBINATION SWITCH

Exploded View

INFOID:000000008460457



- 1. Combination switch
- 2. Combination switch connector

Removal and Installation

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

INFOID:000000008460458