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PRECAUTIONS

< PRECAUTION >

[WITH INTELLIGENT KEY SYSTEM]

PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
 injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
 Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.

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PREPARATION

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[WITH INTELLIGENT KEY SYSTEM]

PREPARATION

PREPARATION

Special Service Tool

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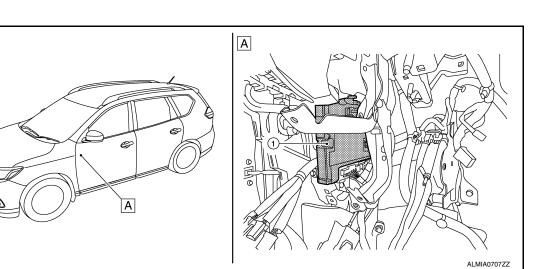
The actual chang of the tools ma	v differ from those tools illustrated here.
The actual shape of the tools ma	y diller from those tools illustrated here.

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

SYSTEM DESCRIPTION

COMPONENT PARTS
BODY CONTROL SYSTEM

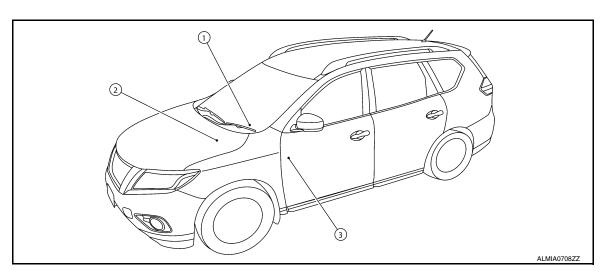
BODY CONTROL SYSTEM: Component Parts Location



- BCM
- A. Behind instrument panel (LH)

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM: Component Parts Location



- Combination meter
 Refer to MWI-6, "METER SYSTEM:
 Component Parts Location".
- IPDM E/R
 Refer to PCS-4, "Component Parts
 Location".
- 3. BCM
 Refer to BCS-7. "BODY CONTROL
 SYSTEM: Component Parts Location".

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SYSTEM BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: System Description

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OUTLINE

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

BCM FUNCTION LIST

System	Refer to
Combination switch reading system	BCS-9, "COMBINATION SWITCH READING SYSTEM : System Description"
Signal buffer system	BCS-12, "SIGNAL BUFFER SYSTEM : System Description"
Power consumption control system	BCS-13. "POWER CONSUMPTION CONTROL SYSTEM : System Description"
Headlamp system	EXL-12. "HEADLAMP SYSTEM: System Description" (halogen headlamp) EXL-142. "HEADLAMP SYSTEM: System Description" (LED headlamp)
Auto light system	EXL-13. "AUTO LIGHT SYSTEM: System Description" (halogen headlamp) EXL-143. "AUTO LIGHT SYSTEM: System Description" (LED headlamp)
Daytime light system	EXL-14, "DAYTIME RUNNING LIGHT SYSTEM: System Description" (halogen headlamp) EXL-144, "DAYTIME RUNNING LIGHT SYSTEM: System Description" (LED headlamp)
Turn signal and hazard warning lamps system	EXL-15, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Description" (halogen headlamp) EXL-146, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Description" (LED headlamp)
Parking, license plate and tail lamps system	EXL-15, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Description" (halogen head-lamp) EXL-146, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Description" (LED headlamp)
Front fog lamp system	EXL-17, "FRONT FOG LAMP SYSTEM: System Description" (halogen headlamp) EXL-148, "FRONT FOG LAMP SYSTEM: System Description" (LED headlamp)
Exterior lamp battery saver system	EXL-18. "EXTERIOR LAMP BATTERY SAVER SYSTEM: System Description" (halogen headlamp) EXL-149. "EXTERIOR LAMP BATTERY SAVER SYSTEM: System Description" (LED headlamp)
Interior room lamp control system	INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"
Interior room lamp battery saver system	INL-9, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description"
Front wiper and washer system	WW-8, "FRONT WIPER AND WASHER SYSTEM : System Description"

System		Refer to	
Rear wiper and washer system		WW-10, "REAR WIPER AND WASHER SYSTEM : System Description"	
Warning chime system		WCS-6, "WARNING CHIME SYSTEM : System Description"	
Door lock system		DLK-26, "System Description"	
Back door open system		DLK-39, "System Description"	
Nissan vehicle immobilizer system (NVIS	5)	SEC-12, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS: System Description"	
Vehicle security system		OFO 44 IIVELUOLE OFOLIDITY OVOTEM. Outlook Description!	
Panic alarm		SEC-14, "VEHICLE SECURITY SYSTEM: System Description	
Rear window defogger system		DEF-6, "System Description"	
	Door lock function	DLK-29, "DOOR LOCK FUNCTION : System Description"	
Intelligent Key system/engine start sys-	Back door open function	DLK-31, "BACK DOOR OPEN FUNCTION : System Description	
tem	Warning function	DLK-35, "WARNING FUNCTION : System Description"	
	Engine start function	SEC-9, "INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION: System Description"	
Power window system	1	PWC-8, "System Description"	
RAP (retained accessory power) system		BCS-26, "RETAINED PWR : CONSULT Function (BCM - RE-TAINED PWR)"	
TPMS (tire pressure monitoring system)		WT-8, "System Description"	

COMBINATION SWITCH READING SYSTEM

COMBINATION SWITCH READING SYSTEM: System Description

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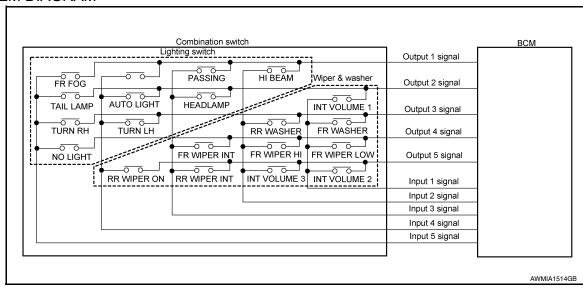
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SYSTEM DIAGRAM



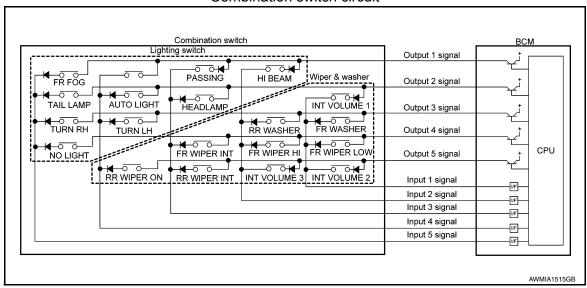
OUTLINE

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

COMBINATION SWITCH MATRIX

Revision: November 2013 BCS-9 2014 Rogue NAM

Combination switch circuit



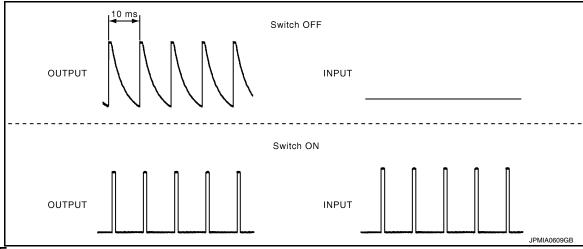
Combination switch INPUT-OUTPUT system list

	<u> </u>				
System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
OUTPUT 1	_	HI BEAM	PASSING	_	FR FOG
OUTPUT 2	INT VOLUME 1	_	HEADLAMP	AUTO LIGHT	TAIL LAMP
OUTPUT 3	FR WASHER	RR WASHER	_	TURN LH	TURN RH
OUTPUT 4	FR WIPER LOW	FR WIPER HI	FR WIPER INT	_	NO LIGHT
OUTPUT 5	INT VOLUME 2	INT VOLUME 3	RR WIPER INT	RR WIPER ON	_

COMBINATION SWITCH READING FUNCTION

Description

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



NOTE:

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

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

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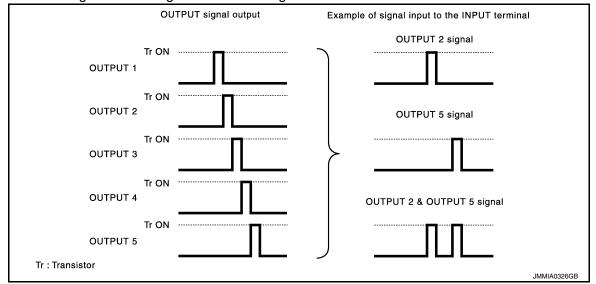
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- It reads this change of the voltage as the status signal of the combination switch.

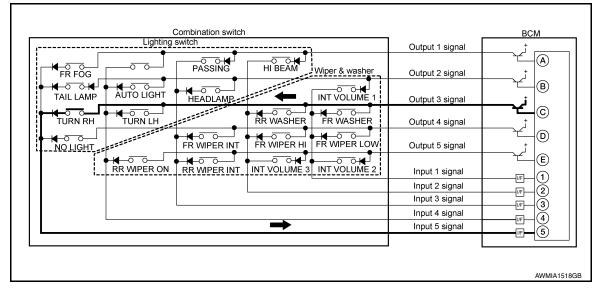


Operation Example

In the following operation example, the combination of the status signals of the combination switch is replaced as follows: INPUT 1 - 5 to "1 - 5" and OUTPUT 1 - 5 to "A - E".

Example 1: When a switch (TURN RH) is turned ON

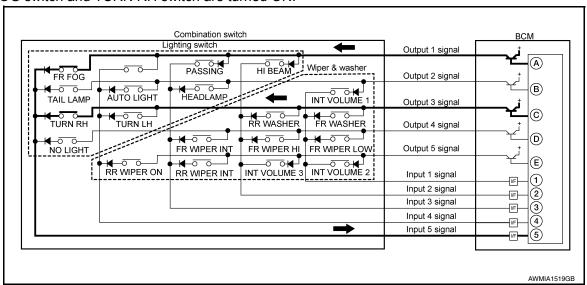
The circuit between OUTPUT 3 and INPUT 5 is formed when the TURN RH switch is turned ON.



- BCM detects the combination switch status signal "5C" when the signal of OUTPUT 3 is input to INPUT 5.
- BCM judges that the TURN RH switch is ON when the signal "5C" is detected.

Example 2: When some switches (FR FOG, TURN RH) are turned ON

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



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

WIPER INTERMITTENT DIAL POSITION SETTING (FRONT WIPER INTERMITTENT OPERATION) BCM judges the wiper intermittent dial 1 - 4 by the status of INT VOLUME 1, 2, and 3 switches.

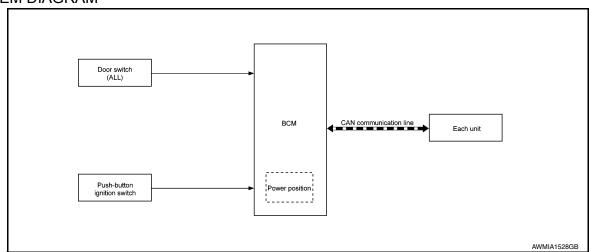
Wiper intermittent	Switch status		
dial position	INT VOLUME 1	INT VOLUME 2	INT VOLUME 3
1	OFF	OFF	OFF
2	ON	OFF	OFF
3	OFF	ON	OFF
4	OFF	OFF	ON

SIGNAL BUFFER SYSTEM

SIGNAL BUFFER SYSTEM : System Description

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SYSTEM DIAGRAM



OUTLINE

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

SIGNAL TRANSMISSION FUNCTION LIST

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

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM: System Description

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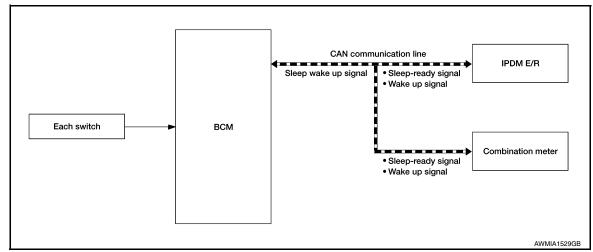
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SYSTEM DIAGRAM



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 and combination meter) that operates with the ignition switch OFF.

Normal mode (wake-up)

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

CAN communication sleep mode (CAN sleep)

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

Low power consumption mode (BCM sleep)

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

LOW POWER CONSUMPTION CONTROL WITH BCM

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

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

SLEEP MODE ACTIVATION

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

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< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

• BCM is in the low power consumption mode and performs the low power consumption control when all of the BCM sleep conditions are fulfilled with CAN sleep condition.

Sleep condition

CAN sleep condition	BCM sleep condition
 Receiving the sleep-ready signal (ready) from all units Ignition switch: OFF Vehicle security system alarm and panic alarm: No operation Warning lamp: No operation Intelligent Key system buzzer: No operation Brake switch: OFF Turn signal indicator lamp: No operation Exterior lamp: OFF Door lock status: No change CONSULT communication status: No communication Meter display signal: Non-transmission Door switch status: No change Rear window defogger: OFF 	Interior room lamp battery saver: Time out RAP system: OFF Push-button ignition switch (push switch) illumination: OFF NATS: No operation Tire pressure monitoring system: Stop

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 are 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 are 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.

BCM wake-up condition	CAN wake-up condition
 Door lock assembly LH (key cylinder switch): Lock or unlock Door lock switch: OFF→ON Door unlock switch: OFF→ON Back door opener switch: OFF→ON 	 Receiving the sleep-ready signal (Not-ready) from any units Push-button ignition switch (push switch): OFF→ON Hazard switch: OFF→ON PASSING switch: OFF→ON, ON→OFF TAIL LAMP switch: OFF→ON, ON→OFF Driver door switch: OFF→ON, ON→OFF Passenger door switch: OFF → ON, ON → OFF Back door switch: OFF→ON, ON→OFF Driver door request switch: OFF→ON Passenger door request switch: OFF→ON Back door request switch: OFF→ON Stop lamp switch signal: ON

SHIPPING MODE CONTROL SYSTEM

SHIPPING MODE CONTROL SYSTEM: System Description

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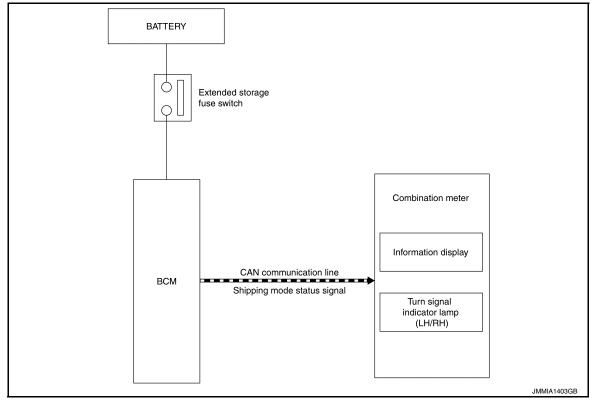
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SYSTEM DIAGRAM



DESCRIPTION

- BCM switches the status (shipping mode or normal mode) by itself according to the extended storage fuse switch condition, and transmits shipping mode status signal to combination meter and each unit via CAN communication.
- · When shipping mode function operates, each control unit does not detect DTCs.
- BCM control functions are limited in shipping mode. Refer to <u>BCS-74, "Description"</u>.
- The combination meter displays extended storage fuse warning message* on the information display, and turns the turn signal indicator lamp (LH/RH) ON, when BCM is in shipping mode.
- *: When shipping mode function operates, "SHIPPING MODE ON PUSH STORAGE FUSE" is displayed.

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[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	 The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

		Direct Diagnostic Mode						
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Back door open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

DOOR LOCK

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

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SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW-DR [On/Off]	Indicates condition of door request switch LH.
REQ SW-AS [On/Off]	Indicates condition of door request switch RH.
REQ SW-BD/TR [On/Off]	Indicates condition of back door request switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLK].

WORK SUPPORT

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

^{* :} Initial setting

REAR DEFOGGER

REAR DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

INFOID:0000000010195911

DATA MONITOR

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
REAR DEF SW [On/Off]	Indicates condition of rear window defogger switch.

ACTIVE TEST

Test Item	Description
REAR DEFOGGER	This test is able to check rear window defogger operation [Off/On].

WORK SUPPORT

Support Item	Setting	Description
	MODE3	Rear defogger turns OFF after 1 minute.
SET R-DEF TIMER	MODE2	Rear defogger remains ON until turned OFF.
	MODE1*	Rear defogger turns OFF after 15 minutes.

^{* :} Initial setting

BUZZER

BUZZER: CONSULT Function (BCM - BUZZER)

INFOID:0000000010195912

DATA MONITOR

Monitor Item [Unit]	Description
PUSH -SW [On/Off]	Indicates condition of push-button ignition switch.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.
TAIL LAMP SW [On/Off]	Indicates condition of combination switch.
FR FOG SW [On/Off]	Indicates condition of front fog lamp switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.

ACTIVE TEST

Test Item	Description
SEAT BELT WARN TEST	This test is able to check seat belt warning chime operation [On/Off].
LIGHT WARN ALM	This test is able to check light warning chime operation [On/Off].
REVERSE WARNING	This test is able to check reverse warning chime operation [On/Off].
ID REGIST WARNING	This test is able to check TPMS sensor ID regist warning chime operation [On/Off].

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000010195913

DATA MONITOR

Description
Indicates condition of door request switch LH.
Indicates condition of door request switch RH.
Indicates condition of push-button ignition switch.
Indicates condition of front door switch LH.
Indicates condition of front door switch RH.
Indicates condition of rear door switch RH.

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >		<u> </u>
Monitor Item [Unit]		Description
DOOR SW-RL [On/Off]	Indicates cor	ndition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates cor	ndition of back door switch.
CDL LOCK SW [On/Off]	Indicates cor	ndition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates cor	ndition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates cor	ndition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates cor	ndition of unlock signal from door key cylinder switch.
RKE-LOCK [On/Off]	Indicates cor	ndition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates cor	ndition of unlock signal from Intelligent Key.
ACTIVE TEST		
Test Item		Description
INT LAMP	This test is a	ble to check interior room lamp operation [On/Off].
WORK SUPPORT		
Support Item	Setting	Description
SET I/L D-UNLCK INTCON	On	Interior room lamp timer function ON.
GET I/E D-GINEOR INTOON	Off*	Interior room lamp timer function OFF.
HEADLAMP HEADLAMP : CONSULT FO DATA MONITOR	unction (B	CM - HEADLAMP)
HEADLAMP : CONSULT F	unction (B	CM - HEADLAMP) Description
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HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit]	Indicates cor	Description
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/	Indicates col	Description ndition of push-button ignition switch.
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN]	Indicates col	Description Indition of push-button ignition switch. Ignie status received from ECM on CAN communication line.
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h]	Indicates col	Description Indition of push-button ignition switch. Ignie status received from ECM on CAN communication line.
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off]	Indicates col	Description Indition of push-button ignition switch. Ignie status received from ECM on CAN communication line.
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off]	Indicates col	Description Indition of push-button ignition switch. Ignie status received from ECM on CAN communication line.
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off]	Indicates con Indicates eng Indicates vel	Description Indition of push-button ignition switch. Ignie status received from ECM on CAN communication line.
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off]	Indicates con Indicates eng Indicates vel	Description Indition of push-button ignition switch. Igine status received from ECM on CAN communication line. Inicle speed signal received from ABS on CAN communication line.
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW [On/Off]	Indicates con Indicates eng Indicates vel	Description Indition of push-button ignition switch. Igine status received from ECM on CAN communication line. Inicle speed signal received from ABS on CAN communication line.
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] LIGHT OFF SW [On/Off]	Indicates con Indicates eng Indicates vel	Description Indition of push-button ignition switch. Igine status received from ECM on CAN communication line. Inicle speed signal received from ABS on CAN communication line.
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW [On/Off] LIGHT OFF SW [On/Off] PASSING SW [On/Off]	Indicates con Indicates eng Indicates vel	Description Indition of push-button ignition switch. Igine status received from ECM on CAN communication line. Inicle speed signal received from ABS on CAN communication line.
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW [On/Off] LIGHT OFF SW [On/Off] AUTO LIGHT SW [On/Off]	Indicates con Indicates eng Indicates vel Indicates con	Description Indition of push-button ignition switch. Igine status received from ECM on CAN communication line. Inicle speed signal received from ABS on CAN communication line.
Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HIEAD LAMP SW [On/Off] LIGHT OFF SW [On/Off] AUTO LIGHT SW [On/Off] FR FOG SW [On/Off]	Indicates con Indicates eng Indicates vel Indicates con Indicates con Indicates con	Description Indition of push-button ignition switch. Ignie status received from ECM on CAN communication line. Indice speed signal received from ABS on CAN communication line. Indition of combination switch.
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW [On/Off] LIGHT OFF SW [On/Off] PASSING SW [On/Off] AUTO LIGHT SW [On/Off] DOOR SW-DR [On/Off]	Indicates con Indicates vel Indicates con Indicates con Indicates con Indicates con Indicates con	Description Indition of push-button ignition switch. Igine status received from ECM on CAN communication line. Inicle speed signal received from ABS on CAN communication line. Indition of combination switch.
Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW [On/Off] LIGHT OFF SW [On/Off] PASSING SW [On/Off] AUTO LIGHT SW [On/Off] FR FOG SW [On/Off] DOOR SW-DR [On/Off]	Indicates con Indicates eng Indicates vel Indicates con Indicates con Indicates con Indicates con Indicates con	Description Indition of push-button ignition switch. Igine status received from ECM on CAN communication line. Inicle speed signal received from ABS on CAN communication line. Indition of combination switch. Indition of front door switch LH. Indition of front door switch RH.
HEADLAMP: CONSULT FOR DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HEAD LAMP SW [On/Off] LIGHT OFF SW [On/Off] PASSING SW [On/Off] AUTO LIGHT SW [On/Off] FR FOG SW [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off]	Indicates con Indicates vel Indicates vel Indicates con	Description Indition of push-button ignition switch. Igne status received from ECM on CAN communication line. Inicle speed signal received from ABS on CAN communication line. Indition of combination switch. Indition of front door switch LH. Indition of front door switch RH. Indition of rear door switch RH.
Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [STOP/STALL/CRANK/RUN] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off] HICH OFF SW [On/Off] LIGHT OFF SW [On/Off] AUTO LIGHT SW [On/Off] PASSING SW [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off]	Indicates con Indicates eng Indicates vel Indicates con	Description Indition of push-button ignition switch. Ignie status received from ECM on CAN communication line. Inicle speed signal received from ABS on CAN communication line. Indition of combination switch. Indition of front door switch LH. Indition of rear door switch RH. Indition of rear door switch LH. Indition of rear door switch LH.

ACTIVE TEST

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Test Item	Description
FR FOG LAMP	This test is able to check front fog lamp operation [On/Off].
STOP LAMP 1	This test is able to check rear combination lamp stop lamp operation [On/Off].
STOP LAMP 3	This test is able to check high-mounted stop lamp operation [On/Off].

WORK SUPPORT

Support Item	Setting	Description
TWILIGHT ON	MODE2*	Autolamp function ON.
TWILIGHT ON	MODE1	Autolamp function OFF.
	MODE4	Less sensitive than normal setting (turns ON later).
CUSTOM A/LIGHT SETTING	MODE3	More sensitive than MODE2.
COSTON A/LIGHT SETTING	MODE2	More sensitive than normal setting (turns ON earlier).
	MODE1*	Normal setting.
	MODE 8	
	MODE 7	
	MODE 6	
ILL DELAY SET	MODE 4	Autolamp delay timer.
ILL DELAT SET	MODE 5	Autolamp delay timel.
	MODE 3	
	MODE 2	
	MODE 1*	

^{*:} Initial setting

WIPER

WIPER: CONSULT Function (BCM - WIPER)

INFOID:0000000010195915

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.
FR WIPER HI [On/Off]	
FR WIPER LOW [On/Off]	Indicates and itian of winer an existing of combination quitab
FR WASHER SW [On/Off]	Indicates condition of wiper operation of combination switch.
FR WIPER INT [On/Off]	
FR WIPER STOP [On/Off]	Indicates front wiper auto stop signal received from IPDM E/R on CAN communication line.
INT VOLUME [1 – 7]	Indicates condition of intermittent wiper operation of combination switch.
RR WIPER ON [On/Off]	
RR WIPER INT [On/Off]	Indicates condition of rear wiper operation of combination switch.
RR WASHER SW [On/Off]	
RR WIPER STOP [On/Off]	Indicates rear wiper motor auto stop input from rear wiper motor.

ACTIVE TEST

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

Support Item	Setting	Description
WIPER SPEED SETTING	On	Front wiper intermittent time linked with vehicle speed and wiper intermittent dial position.
WII LICOI LLD GLITING	Off*	Front wiper intermittent time is not linked with vehicle speed and wiper intermittent dial position.

^{*:} Initial Setting

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
TURN SIGNAL R [On/Off]	Indicates condition of turn signal function of combination switch.
TURN SIGNAL L [On/Off]	indicates condition of turn signal function of combination switch.
HAZARD SW [On/Off]	Indicates condition of hazard switch.
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.
RKE-PANIC [On/Off]	Indicates condition of panic alarm signal from Intelligent Key.

ACTIVE TEST

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

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000010195918

SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Main	Description
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	×	Indicates condition of back door request switch.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.
BRAKE SW 1 [On/Off]	×	Indicates condition of brake pedal position switch.
BRAKE SW 2 [On/Off]		Indicates condition of stop lamp switch.
DETE/CANCL SW [On/Off]	×	Indicates condition of park position switch.

BCS-21 Revision: November 2013 2014 Rogue NAM **BCS**

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[WITH INTELLIGENT KEY SYSTEM]

Monitor Item [Unit]	Main	Description
PUSH SW -IPDM [On/Off]		Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line.
IGN RLY1 -F/B [On/Off]		Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line.
NEUTRAL SW -IPDM [On/Off]		Indicates condition of transmission range switch received from IPDM E/R on CAN communication line.
SFT PN -IPDM [On/Off]		Indicates condition of P (park) or N (neutral) position from TCM on CAN communication line.
STARTER RELAY -IPDM [On/Off]		Indicates condition of starter relay received from IPDM E/R on CAN communication line.
ENGINE STATE [STOP/START/CRANK/RUN]	×	Indicates condition of engine state from ECM on CAN communication line.
REVERSE SIGNAL -IPDM [On/Off]		Indicates condition of transmission range switch received from IPDM E/R on CAN communication line.
CRANKING PERMIT -ECM [PERMIT]		Indicates condition of engine start possibility from ECM on CAN communication line.
IS STATUS -ECM [On/Off]		Indicates IS status from ECM on CAN communication line.
STARTER CUT RELAY -ECM [On/Off]		Indicates condition of starter cut relay from ECM on CAN communication line.
VEH SPEED 1 [mph/km/h]	×	Indicates condition of vehicle speed signal received from ABS on CAN communication line.
VEH SPEED 2 [mph/km/h]	×	Indicates condition of vehicle speed signal received from combination meter on CAN communication line.
IGN REQ -IPDM [On/Off]		Indicates condition of ignition request from IPDM E/R on CAN communication line.
STARTER REQ -IPDM [On/Off]		Indicates condition of starter request received from IPDM E/R on CAN communication line.
DOOR STAT -DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.
DOOR STAT -AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.
DOOR STAT -RR [LOCK/READY/UNLK]	×	Indicates condition of rear right side door status.
DOOR STAT -RL [LOCK/READY/UNLK]	×	Indicates condition of rear left side door status.
BK DOOR STATE [LOCK/READY/UNLK]	×	Indicates condition of back door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.
I-KEY OK FLAG [Key ON/Key OFF]	×	Indicates condition of Intelligent Key OK flag.
PRBT ENG STRT [Set/Reset]		Indicates condition of engine start prohibit.
ID AUTHENT CANCEL TIMER [STOP]		Indicates condition of Intelligent Key ID authentication.
ACC BATTERY SAVER [STOP]		Indicates condition of battery saver.
CRNK PRBT TMR [On/Off]		Indicates condition of crank prohibit timer.
AUT CRNK TMR [On/Off]		Indicates condition of automatic engine crank timer from Intelligent Key.
CRNK PRBT TME [sec]		Indicates condition of engine crank prohibit time.
AUTO CRNK TME [sec]		Indicates condition of automatic engine crank time from Intelligent Key.
CRANKING TME [sec]		Indicates condition of engine cranking time from Intelligent Key.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.

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[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >			[WITH INTELLIGENT RET STSTEM]	
Monitor Item [Unit]	Main		Description	
RKE-TR/BD [On/Off]		Indicates	condition of back door open signal from Intelligent Key.	
RKE-PANIC [On/Off]		Indicates	condition of panic signal from Intelligent Key.	
RKE-MODE CHG [On/Off]		Indicates	condition of mode change signal from Intelligent Key.	
RKE PBD [On/Off]		Indicates	condition of automatic back door signal from Intelligent Key.	
ACTIVE TEST	·			
Test Item			Description	
OUTSIDE BUZZER	This test is	s able to che	ck Intelligent Key warning buzzer operation [On/Off].	
INSIDE BUZZER	This test is Off].	s able to che	ck combination meter warning chime operation [Take Out/Knob/Key/	
INDICATOR	This test is	s able to che	ck combination meter warning lamp operation [KEY ON/KEY IND/Off]	
ENGINE SW ILLUMI	This test is	This test is able to check push-button ignition switch START indicator operation [On/Off].		
IGNITION RELAY	This test is	s able to che	ck ignition relay operation [On/Off].	
WORK SUPPORT				
Support Item	Se	tting	Description	
		70 msec		
SHORT CRANKING OUTPUT	Start	100 msec	Starter motor operation duration times.	
CHOICH GIV WINGING GOTT GT		200 msec		
	End		_	
	-	(BCM -	This function allows inside key antenna self-diagnosis. COMB SW)	
INSIDE ANT DIAGNOSIS COMB SW COMB SW : CONSULT F DATA MONITOR	-	(BCM -		
COMB SW COMB SW : CONSULT F	-	_ (BCM -		
COMB SW COMB SW : CONSULT F DATA MONITOR	-	(BCM -	COMB SW)	
COMB SW COMB SW : CONSULT F DATA MONITOR Monitor Item [Unit] FR WIPER HI [On/Off] FR WIPER LOW [On/Off]	unction		COMB SW) INFOID:0000000101959: Description	
COMB SW COMB SW : CONSULT F DATA MONITOR Monitor Item [Unit] FR WIPER HI [On/Off] FR WIPER LOW [On/Off]	unction		COMB SW)	
COMB SW COMB SW : CONSULT F DATA MONITOR Monitor Item [Unit] FR WIPER HI [On/Off] FR WIPER LOW [On/Off]	unction		COMB SW) INFOID:0000000101959: Description	
COMB SW COMB SW : CONSULT F DATA MONITOR Monitor Item [Unit] FR WIPER HI [On/Off] FR WIPER LOW [On/Off] FR WASHER SW [On/Off] FR WIPER INT [On/Off]	Function	dition of wipe	COMB SW) INFOID:0000000101959: Description	
COMB SW COMB SW : CONSULT F DATA MONITOR Monitor Item [Unit] FR WIPER HI [On/Off] FR WIPER LOW [On/Off] FR WASHER SW [On/Off] FR WIPER INT [On/Off]	Function	dition of wipe	COMB SW) Description er operation of combination switch.	
COMB SW COMB SW: CONSULT F COMB SW: COMSULT F COMB SW: COMB SW: COMSULT F COMB SW: COMSULT F COMB SW: COMSULT F COMB SW:	Indicates cond	dition of wipe	COMB SW) Description er operation of combination switch.	
COMB SW COMB SW: CONSULT FOR COMB SW: C	Indicates cond	dition of wipe	Description Per operation of combination switch. Trmittent wiper operation of combination switch.	
COMB SW: CONSULT FOR COMB SW: CONSULT FR WIPER HI [On/Off] FR WIPER HI [On/Off] FR WIPER INT [On/Off] INT VOLUME [1 - 7] RR WIPER ON [On/Off] RR WIPER INT [On/Off] RR WIPER INT [On/Off]	Indicates conditional	dition of wipe	Description er operation of combination switch. rmittent wiper operation of combination switch.	
COMB SW: CONSULT FOR COMB SW: COM	Indicates conditional landicates conditional	dition of wipe dition of inter dition of rear	Description Per operation of combination switch. Trailtent wiper operation of combination switch. Twiper operation of combination switch.	
COMB SW: CONSULT FOR COMB SW: CONSULT FR WIPER HI [On/Off] FR WIPER HI [On/Off] FR WIPER INT [On/Off] FR WIPER INT [On/Off] RR WIPER INT [On/Off] RR WIPER INT [On/Off] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off]	Indicates conducates c	dition of wipe dition of inter dition of rear dition of left t	Description The operation of combination switch.	
COMB SW: CONSULT FOR COMB SW: CONSULT FR. WIPER HI [On/Off] FR WIPER HI [On/Off] FR WIPER INT [On/Off] INT VOLUME [1 - 7] RR WIPER ON [On/Off] RR WIPER INT [On/Off] RR WIPER SW [On/Off] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off]	Indicates concludicates conclu	dition of wipe dition of inter dition of rear dition of right dition of left t	Description Per operation of combination switch. Trailtent wiper operation of combination switch. The wiper operation of combination switch. The turn signal operation of combination switch. The turn signal operation of combination switch. The turn signal operation of combination switch.	
COMB SW: CONSULT FOR COMB SW:	Indicates condindicates condin	dition of wipe dition of inter dition of rear dition of left to dition of tail I dition of Hi b	Description The operation of combination switch. The turn signal operation of combination switch. The operation of combination switch.	
COMB SW: CONSULT FOR COMB SW:	Indicates condindicates condin	dition of wipe dition of inter dition of rear dition of left t dition of tail I dition of Hi b dition of hea	Description Per operation of combination switch. Trmittent wiper operation of combination switch. The turn signal operation of combination switch.	
COMB SW: CONSULT FORTAL MONITOR Monitor Item [Unit] FR WIPER HI [On/Off] FR WIPER LOW [On/Off] FR WIPER INT [On/Off] FR WIPER INT [On/Off] INT VOLUME [1 - 7] RR WIPER ON [On/Off] RR WIPER INT [On/Off] TURN SIGNAL R [On/Off] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HI BEAM SW [On/Off] HI BEAM SW [On/Off] LIGHT OFF SW [On/Off]	Indicates condindicates condin	dition of wipe dition of inter dition of rear dition of left to dition of tail I dition of Hi b dition of no li	Description Per operation of combination switch. Trailitent wiper operation of combination switch. The turn signal operation of combination switch.	
COMB SW: CONSULT FOR COMB SW:	Indicates conditional	dition of wipe dition of inter dition of rear dition of left t dition of tail I dition of Hi b dition of hea dition of no li dition of pass	Description Per operation of combination switch. Trmittent wiper operation of combination switch. It turn signal operation of combination switch. Turn signal operation of combination switch.	

BCM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

BCM: CONSULT Function (BCM - BCM)

INFOID:0000000010195920

ECU IDENTIFICATION

The BCM part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to BCS-48, "DTC Index".

WORK SUPPORT

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

CONFIGURATION

Refer to BCS-61, "CONFIGURATION (BCM): Description".

CAN DIAG SUPPORT MNTR

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

IMMU

IMMU: CONSULT Function (BCM - IMMU)

INFOID:0000000010195921

SELF DIAGNOSTIC RESULT

Refer to BCS-48, "DTC Index".

DATA MONITOR

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

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting	Description
CONFIRM DONGLE ID	_	Dongle ID can be checked.

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000010195922

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
PUSH SW [On/Off]	Indicates condition push-button ignition switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION	> [WITH INTELLIGENT RET STSTEM	_
Monitor Item [Unit]	Description	
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.	
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.	
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.	
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.	
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.	
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.	
ACTIVE TEST		
Test item	Description	_
BATTERY SAVER	This test is able to check battery saver operation [On/Off].	
TRUNK	·	
TRUNK : CONSULT F	Function (BCM - TRUNK)	5923
DATA MONITOR		
Monitor Item [Unit]	Description	
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.	
DETECTION SENSOR (BK) [On/Off]	NOTE: This item is displayed, but cannot be monitored.	
O]	Indicates vehicle speed signal received from ABS on CAN communication line.	
VEH SPEED 1 [km/h]		
	Indicates vehicle speed signal received from ABS on CAN communication line.	
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/O RKE-TR/BD [On/Off] THEFT ALM	Indicates vehicle speed signal received from ABS on CAN communication line. Off] Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key.	
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/O RKE-TR/BD [On/Off] THEFT ALM THEFT ALM : CONSU	Indicates vehicle speed signal received from ABS on CAN communication line. Off] Indicates condition of back door opener switch.	5924
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/ORKE-TR/BD [On/Off] THEFT ALM	Indicates vehicle speed signal received from ABS on CAN communication line. Off] Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key.	5924
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/O RKE-TR/BD [On/Off] THEFT ALM THEFT ALM : CONSU	Indicates vehicle speed signal received from ABS on CAN communication line. Off] Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. JLT Function (BCM - THEFT ALM)	5924
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/O RKE-TR/BD [On/Off] THEFT ALM THEFT ALM : CONSU DATA MONITOR Monitored Item	Indicates vehicle speed signal received from ABS on CAN communication line. Off] Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. JLT Function (BCM - THEFT ALM) Description	5924
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/O RKE-TR/BD [On/Off] THEFT ALM THEFT ALM : CONSU DATA MONITOR Monitored Item REQ SW -DR [On/Off]	Indicates vehicle speed signal received from ABS on CAN communication line. Off] Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. JLT Function (BCM - THEFT ALM) Description Indicates condition of door request switch LH.	_ _ _ _
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/O RKE-TR/BD [On/Off] THEFT ALM THEFT ALM : CONSU DATA MONITOR Monitored Item REQ SW -DR [On/Off] REQ SW -AS [On/Off]	Indicates vehicle speed signal received from ABS on CAN communication line. Off] Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. JLT Function (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of door request switch RH.	55924
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/O RKE-TR/BD [On/Off] THEFT ALM THEFT ALM: CONSU DATA MONITOR Monitored Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW-BD/TR [On/Off]	Indicates vehicle speed signal received from ABS on CAN communication line. Off] Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. JLT Function (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of back door request switch.	_ _ _ _
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/O RKE-TR/BD [On/Off] THEFT ALM THEFT ALM: CONSU DATA MONITOR Monitored Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off]	Indicates vehicle speed signal received from ABS on CAN communication line. Off] Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. JLT Function (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of back door request switch. Indicates condition of push-button ignition switch.	_ _ _ _
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/O RKE-TR/BD [On/Off] THEFT ALM THEFT ALM: CONSU DATA MONITOR Monitored Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] DOOR SW-DR [On/Off]	Indicates vehicle speed signal received from ABS on CAN communication line. Off] Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. Indicates condition (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of back door request switch. Indicates condition of push-button ignition switch. Indicates condition of front door switch LH.	_ _ _ _
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/ORKE-TR/BD [On/Off]] THEFT ALM THEFT ALM: CONSUMATION Monitored Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] DOOR SW-DR [On/Off]	Indicates vehicle speed signal received from ABS on CAN communication line. Off] Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. Indicates condition (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of back door request switch. Indicates condition of push-button ignition switch. Indicates condition of front door switch LH. Indicates condition of front door switch RH.	_ _ _ _
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/ORKE-TR/BD [On/Off]] THEFT ALM THEFT ALM: CONSUMATION CO	Indicates vehicle speed signal received from ABS on CAN communication line. Off] Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. Description Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of back door request switch. Indicates condition of push-button ignition switch. Indicates condition of front door switch LH. Indicates condition of front door switch RH. Indicates condition of front door switch RH. Indicates condition of front door switch RH. Indicates condition of rear door switch RH.	_ _ _ _
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/O RKE-TR/BD [On/Off] THEFT ALM THEFT ALM: CONSU DATA MONITOR Monitored Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off]	Indicates vehicle speed signal received from ABS on CAN communication line. Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. Indicates condition (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of back door request switch. Indicates condition of push-button ignition switch. Indicates condition of front door switch LH. Indicates condition of rear door switch RH. Indicates condition of rear door switch RH. Indicates condition of rear door switch LH. Indicates condition of rear door switch LH.	_ _ _ _
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/O RKE-TR/BD [On/Off] THEFT ALM THEFT ALM: CONSU DATA MONITOR Monitored Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RR [On/Off] DOOR SW-RR [On/Off]	Indicates vehicle speed signal received from ABS on CAN communication line. Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. Indicates condition (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of back door request switch. Indicates condition of push-button ignition switch. Indicates condition of front door switch LH. Indicates condition of rear door switch RH. Indicates condition of rear door switch RH. Indicates condition of rear door switch LH. Indicates condition of back door switch LH.	_ _ _ _
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/ORKE-TR/BD [On/Off]] THEFT ALM THEFT ALM: CONSUMATION CO	Indicates vehicle speed signal received from ABS on CAN communication line. Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. Indicates condition (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of back door request switch. Indicates condition of push-button ignition switch. Indicates condition of front door switch LH. Indicates condition of front door switch RH. Indicates condition of rear door switch RH. Indicates condition of rear door switch LH. Indicates condition of rear door switch LH. Indicates condition of lock signal from door lock and unlock switch.	_ _ _ _
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/O RKE-TR/BD [On/Off] THEFT ALM THEFT ALM: CONSU DATA MONITOR Monitored Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RR [On/Off] DOOR SW-RR [On/Off] CDL LOCK SW [On/Off] CDL UNLOCK SW [On/Off]	Indicates vehicle speed signal received from ABS on CAN communication line. Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. Indicates condition (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of back door request switch. Indicates condition of push-button ignition switch. Indicates condition of front door switch RH. Indicates condition of front door switch RH. Indicates condition of rear door switch RH. Indicates condition of rear door switch RH. Indicates condition of rear door switch LH. Indicates condition of rear door switch LH. Indicates condition of lock signal from door lock and unlock switch. Indicates condition of unlock signal from door lock and unlock switch.	_ _ _ _
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/ORKE-TR/BD [On/Off]] THEFT ALM THEFT ALM: CONSUMATION CO	Indicates vehicle speed signal received from ABS on CAN communication line. Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. Indicates condition of back door open signal from Intelligent Key. Description Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of back door request switch. Indicates condition of push-button ignition switch. Indicates condition of front door switch LH. Indicates condition of rear door switch RH. Indicates condition of rear door switch RH. Indicates condition of rear door switch LH. Indicates condition of lock signal from door lock and unlock switch. Indicates condition of unlock signal from door lock and unlock switch. Indicates condition of lock signal from door lock and unlock switch. Indicates condition of lock signal from door lock and unlock switch.	_ _ _ _
VEH SPEED 1 [km/h] BACK DOOR OPENER SW [On/ORKE-TR/BD [On/Off]] THEFT ALM THEFT ALM: CONSUMATION CO	Indicates vehicle speed signal received from ABS on CAN communication line. Indicates condition of back door opener switch. Indicates condition of back door open signal from Intelligent Key. Indicates condition (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of back door request switch. Indicates condition of push-button ignition switch. Indicates condition of front door switch LH. Indicates condition of rear door switch RH. Indicates condition of rear door switch RH. Indicates condition of rear door switch LH. Indicates condition of rear door switch LH. Indicates condition of lock signal from door lock and unlock switch. Indicates condition of lock signal from door lock and unlock switch. Indicates condition of lock signal from door key cylinder switch. Indicates condition of unlock signal from door key cylinder switch.	_ _ _ _

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

ACTIVE TEST

Test Item	Description
FLASHER	This test is able to check turn signal lamp operation [LH/RH/Off].
THEFT IND	This test is able to check security indicator lamp operation [On/Off].
VEHICLE SECURITY HORN	This test is able to check vehicle security horn operation [On].
HEADLAMP(HI)	This test is able to check vehicle security lamp operation [On].

WORK SUPPORT

Support Item	Setting	Description
SECURITY ALARM SET	On	Security alarm ON.
GEOGRITI ALARWI GET	Off	Security alarm OFF.

RETAINED PWR

RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000010195925

DATA MONITOR

Monitor Item [Unit]	Description	
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	

SIGNAL BUFFER

SIGNAL BUFFER: CONSULT Function (BCM - SIGNAL BUFFER)

INFOID:0000000010195926

DATA MONITOR

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

AIR PRESSURE MONITOR

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

INFOID:0000000010195927

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs
- Check Intelligent Key relative signal strength
- · Confirm vehicle Intelligent Key antenna signal strength

SELF DIAGNOSTIC RESULT

NOTE:

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

Refer to BCS-48, "DTC Index".

DATA MONITOR

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item [Unit]	Description
AIR PRESS FL [kPa, kg/cm ² or Psi]	Indicates air pressure of front LH tire.
AIR PRESS FR [kPa, kg/cm ² or Psi]	Indicates air pressure of front RH tire.
AIR PRESS RR [kPa, kg/cm ² or Psi]	Indicates air pressure of rear RH tire.
AIR PRESS RL [kPa, kg/cm ² or Psi]	Indicates air pressure of rear LH tire.
ID REGST FL1 [Done/Yet]	Indicates ID registration status of front LH sensor.
ID REGST FR1 [Done/Yet]	Indicates ID registration status of front RH sensor.
ID REGST RR1 [Done/Yet]	Indicates ID registration status of rear RH sensor.
ID REGST RL1 [Done/Yet]	Indicates ID registration status of rear LH sensor.
WARNING LAMP [Off/On]	Indicates condition of low tire pressure warning lamp in combination meter.
BUZZER [Off/On]	Indicates condition of buzzer in combination meter.

ACTIVE TEST

Test Item	Description
FLASHER	This test is able to check turn signal lamp operation [Off/LH/RH].
HORN	This test is able to check horn operation [On].
WARNING LAMP	This test is able to check tire pressure warning lamp operation [On/Off].
ID REGIST WARNING	This test is able to check ID regist warning chime operation [On/Off].

WORK SUPPORT

Support Item	Description
ID READ	The registered ID number is displayed.
ID REGIST	Refer to WT-21, "Description".

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Revision: November 2013 BCS-27 2014 Rogue NAM

ECU DIAGNOSIS INFORMATION

BCM

Reference Value

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- · Register TPMS sensor IDs
- · Check Intelligent Key relative signal strength
- · Confirm vehicle Intelligent Key antenna signal strength

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ACC BATTERY SAVER	When battery saver is OFF.	STOP
AIR PRESS FL	Front left tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS FR	Front right tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS RL	Rear left tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS RR	Rear right tire air pressure value	kPa, kg/cm ² , psi
ALIT CONIC TMD	When the remote engine start timer is OFF.	Off
AUT CRNK TMR	When the remote engine start timer is ON.	On
AUTO CRNK TME	Remote engine start timer duration.	sec
AUTO LIGHT SW	Lighting switch OFF	Off
AUTU LIGHT SW	Lighting switch AUTO	On
BACK DOOR OPENER	Back door opener switch OFF	Off
SW	Back door opener switch pressed	On
	Back door LOCK status	LOCK
BK DOOR STATE	Back door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
BRAKE SW 1	Brake pedal released	On
BRAKE SW I	Brake pedal depressed	Off
BRAKE SW 2	Brake pedal released	Off
DRAKE SW Z	Brake pedal depressed	On
BUZZER	Buzzer in combination meter OFF	Off
BUZZER	Buzzer in combination meter ON	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK 3W	Press door lock/unlock switch to the LOCK side	On
CDL TINI OCK 6/M	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the UNLOCK side	On
CRANKING PERMIT - When engine start is permitted		PERMIT
CRANKING TME	Engine start timer duration.	sec
CRNK PRBT TME	Engine start prohibit timer duration.	sec
CDNIK DDDT TMD	When the engine start prohibit timer is OFF.	Off
CRNK PRBT TMR	When the engine start prohibit timer is ON.	On

When selector lever is in P position	Off		
When selector lever is in any position other than P	On		
Passenger door LOCK status	LOCK	E	
Passenger door UNLOCK status	UNLK	_	
Wait with selective UNLOCK operation (5 seconds)	READY	_	
Driver door LOCK status	LOCK	_ (
Driver door UNLOCK status	UNLK	_	
Wait with selective UNLOCK operation (5 seconds)	READY		
Rear left door LOCK status	LOCK		
Rear left door UNLOCK status	UNLK	_	
Wait with selective UNLOCK operation (5 seconds)	READY	Е	
Rear right door LOCK status	LOCK	_	
Rear right door UNLOCK status	UNLK		
	READY	_ F	
Front door RH closed	Off	_	
Front door RH opened	On		
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When hazard switch is not pressed	Off		
	Passenger door UNLOCK status Wait with selective UNLOCK operation (5 seconds) Driver door LOCK status Driver door UNLOCK status Wait with selective UNLOCK operation (5 seconds) Rear left door LOCK status Rear left door UNLOCK status Wait with selective UNLOCK operation (5 seconds) Rear right door LOCK status Rear right door UNLOCK status Wait with selective UNLOCK operation (5 seconds) Wait with selective UNLOCK operation (5 seconds)	Passenger door UNLOCK status Wait with selective UNLOCK operation (5 seconds) Driver door LOCK status Driver door UNLOCK status UNLK Wait with selective UNLOCK operation (5 seconds) READY Rear left door LOCK status LOCK Rear left door LOCK status UNLK Wait with selective UNLOCK operation (5 seconds) READY Rear right door LOCK status UNLK Wait with selective UNLOCK operation (5 seconds) READY Rear right door LOCK status UNLK Wait with selective UNLOCK operation (5 seconds) READY Rear right door UNLOCK status UNLK Wait with selective UNLOCK operation (5 seconds) READY Front door RH closed Off Front door RH opened On Back door closed Back door opened On Front door LH closed Off Front door LH closed Off Rear door LH closed Off Rear door LH opened On Rear door RH opened On Front off Rear door RH opened On Pront off Rear door RH opened On Pront off Rear door RH opened On CRANK Engine cranking CRANK Engine running RUN Blower motor fan switch OFF Off Blower motor fan switch OFF Off Front masher switch OFF Off Front washer switch OFF Off Front washer switch OFF Front washer switch OFF Front washer switch OFF Front wiper switc	

Monitor Item	Condition	Value/Status		
HEAD LAMP SW	Headlamp switch OFF	Off		
HEAD LAWP SW	Headlamp switch ON	On		
HI BEAM SW	High beam switch OFF	Off		
HI BEAIN SW	High beam switch HI	On		
ID AUTHENT CANCEL TIMER	When I-Key authentication is OFF.	STOP		
ID OK FLAG	Ignition switch ON	Reset		
ID ON I LAG	Ignition switch OFF	Set		
D REGST FL1	ID registration of front left tire incomplete	YET		
D NEGOT LET	ID registration of front left tire complete	DONE		
ID REGST FR1	ID registration of front right tire incomplete	YET		
DICOGITICI	ID registration of front right tire complete	DONE		
D DECCT DL 1	ID registration of rear left tire incomplete	YET		
ID REGST RL1	ID registration of rear left tire complete	DONE		
D DECCT DD4	ID registration of rear right tire incomplete	YET		
ID REGST RR1	ID registration of rear right tire complete	DONE		
ION DEC. IDDM	Ignition switch OFF	Off		
IGN REQ -IPDM	Ignition switch ON	On		
	Ignition switch OFF	Off		
GN RLY1 F/B	Ignition switch ON	On		
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7		
	IS status OFF	Off		
S STATUS -ECM	IS status ON	On		
	I-Key OFF	Key OFF		
I-KEY OK FLAG	I-Key ON	Key ON		
	Door key cylinder LOCK position	Off		
KEY CYL LK-SW	Door key cylinder other than LOCK position	On		
	Door key cylinder UNLOCK position	Off		
KEY CYL UN-SW	Door key cylinder other than UNLOCK position	On		
	Headlamp switch ON	Off		
LIGHT OFF SW	Headlamp switch OFF	On		
	Selector lever N (Neutral) position	Off		
NEUTRAL SW-IPDM	Selector lever any position except N (Neutral)	On		
	Bright outside of the vehicle	Close to 5V		
OPTI SEN (DTCT)	Dark outside of the vehicle	Close to 0V		
	Bright outside of the vehicle	Close to 5V		
OPTI SEN (FILT)	Dark outside of the vehicle	Close to 0V		
	Other than lighting switch PASS	Off		
PASSING SW	Lighting switch PASS	On		
	When the engine start is prohibited	Reset		
PRBT ENG STRT	When the engine start is permitted	Set		
	When the engine start is prohibited	Reset		
PRMT ENG STRT	When the engine start is permitted	Set		
	When the engine start is prohibited	Reset		
PRMT RKE STRT	a.t tgt start to promotion			

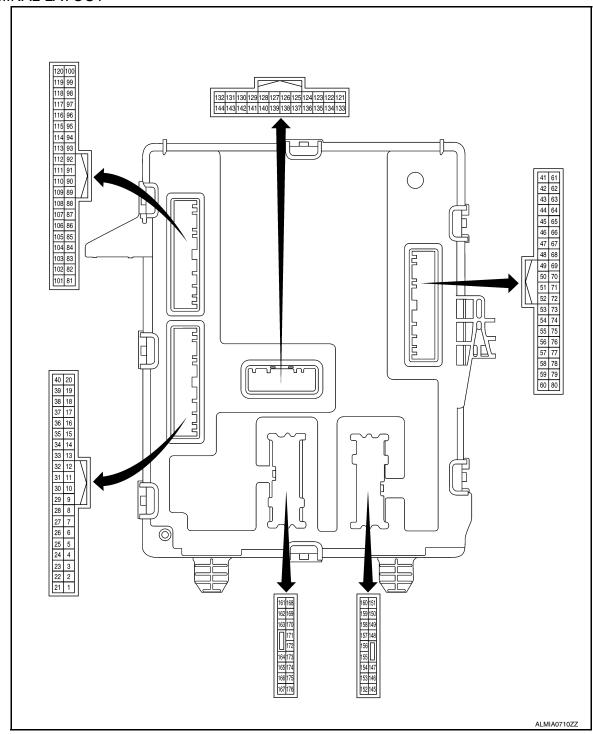
Monitor Item	Condition	Value/Status		
PUSH SW	Return ignition switch to LOCK position	Off	_	
OGI I OVV	Press ignition switch	On	_	
PUSH SW-IPDM	When engine switch (push switch) is not pressed	Off	_	
- OSI I SVV-IF DIVI	When engine switch (push switch) is pressed	On	_	
REAR DEF SW	Rear window defogger switch OFF	Off	_	
NEAN DEI SW	Rear window defogger switch ON	On	_	
REQ SW-AS	When passenger door request switch is not pressed	Off	_	
NEQ 3W-A3	When passenger door request switch is pressed	On	_	
REQ SW-BD/TR	When back door request switch is not pressed	Off	_	
INEQ SW-DD/TIX	When back door request switch is pressed	On	_	
REQ SW-DR	When driver door request switch is not pressed	Off	_	
NEQ 3W-DIX	When driver door request switch is pressed	On	_	
REVERSE SIGNAL -	Selector lever R (Reverse) position	Off	_	
PDM	Selector lever any position except R (Reverse)	On	_	
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	Off	_	
INIL-LOOK	When LOCK button of Intelligent Key is pressed	On	_	
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off	_	
NINE-INIODE ONG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On	=	
RKE OPE COUN1	Operation frequency of Intelligent Key	0-19	_	
RKE OPE COUN2	Operation frequency of Intelligent Key	0-19	_	
DICE DANIC	When PANIC button of Intelligent Key is not pressed	Off	_	
RKE-PANIC	When PANIC button of Intelligent Key is pressed	On	_	
RKE PBD	I-Key automatic back door button not pressed	Off	_	
KKE FBD	I-Key automatic back door button pressed	On	_	
RKE-TR/BD	When BACK DOOR OPEN button of Intelligent Key is not pressed	Off	_	
RRE-TR/DD	When BACK DOOR OPEN button of Intelligent Key is pressed	On	_	
DKE TINI OCK	When UNLOCK button of Intelligent Key is not pressed	Off	_	
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	On	_	
RR WASHER SW	Rear washer switch OFF	Off	_	
INI WASHER SW	Rear washer switch ON	On		
RR WIPER INT	Rear wiper switch OFF	Off	_ [
MIX WIE ELY HAI	Rear wiper switch INT	On	_	
	Rear wiper switch OFF	Off	_	
RR WIPER ON	Rear wiper switch ON	On	_	
RR WIPER STOP	Any position other than rear wiper stop position	Off	_	
AN WIFLE STOP	Rear wiper stop position	On	_	
SFT PN -IPDM	When selector lever is in any position other than P or N	Off	_	
SI I FIN -IFDIVI	When selector lever is in P or N position	On	_	
STARTER CUT RELAY -	Starter cut relay OFF	Off	_	
ECM	Starter cut relay ON	On	_	
STADTED DELAY IDDA	Starter relay OFF	Off	_	
STARTER RELAY -IPDM	Starter relay ON	On	_	

BCM

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
STARTER REQ -IPDM	Starter OFF	Off
STAINTEN NEW -IF DIVI	Starter ON	On
TAIL LAMP SW	Lighting switch OFF	Off
TAIL LAWII OW	Lighting switch ON	On
TURN SIGNAL L	Turn signal switch OFF	Off
TORN SIGNAL L	Turn signal switch LH	On
TURN SIGNAL R	Turn signal switch OFF	Off
TORN SIGNAL IX	Turn signal switch RH	On
VEH SPEED 1 While driving, equivalent to speedometer reading		mph, km/h
VEH SPEED 2	While driving, equivalent to speedometer reading	mph, km/h
WARNING LAMP	Low tire pressure warning lamp in combination meter OFF	Off
WARNING LAWIF	Low tire pressure warning lamp in combination meter ON	On

TERMINAL LAYOUT



PHYSICAL VALUES

BCS

K

L

Α

В

C

D

Е

F

G

Н

Ν

0

Р

Terminal No. (Wire color)		Description				Value
(Wire	(-)	Signal name	Input/ Output		Condition	(Approx.)
2 (LA/G)	Ground	Door mirror LH turn signal lamp output	Output	Push-button ignition switch ON	Turn signal switch OFF Turn signal switch LH	0V (V) 15 10 5 0 PKID0926E
					Turn signal switch OFF	6.5 V 0V
3 (LA/Y)	Ground	Door mirror RH turn signal lamp output	Output	Push-button ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
		Room lamp relay control	Output	Push-button ignition switch OFF	Interior room lamp battery saver opera- tion timed out	Battery voltage
4 (P)	Ground				Any time prior to inte- rior room lamp bat- tery saver operation timed out	0V
5 (R)	Ground	CAN L	Input/ Output		_	_
6 (L)	Ground	CAN H	Input/ Output		_	_
8 (L)	Ground	CAN H	Input/ Output		_	_
9 (R)	Ground	CAN L	Input/ Output		_	_
10 (BG)	Ground	Main power window and door lock/unlock switch lock signal	Input	Main power window and door lock/un- lock switch (door lock/un- lock switch)	Lock Unlock	Battery voltage 0V
				·	Pressed	0 V
11 (Y)	Ground	Hazard switch	Input	Hazard switch	Released	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V

Terminal No. (Wire color)				Condition	Value		
(+)	(-)	Signal name	Input/ Output	(Condition	(Approx.)	
12	Ground	Auto light power supply 5V	Output	Push-button	OFF	0V	
(W)	Giodila	Auto light power supply 5v	Output	ignition switch	ON	5V	
16 (P)	Ground	Audio dongle	Input/ Output	Push-button ignition switch	OFF	5V	
17	Ground	CVT shift selector park po-	Output	Selector lever	P position	0V	
(L)	Giouria	sition switch power	Output	Selector level	Except P position	Battery voltage	
19	Ground	Auto light signal	Input	Push-button ignition switch	Outside of vehicle is bright	Close to 5V	
(LG)	Ground	, rate light digital	mpat	ON	Outside of vehicle is dark	Close to 0V	
23	Ground	Power window relay control	Output	Push-button	OFF	Battery voltage	
(G)	Oround	1 ower window relay control	Output	ignition switch	ON	0V	
24	Ground	Rear window defogger re-	Output	Rear window	Not activated	Battery voltage	
(LA/R)	Cround	lay control	σαιραι	defogger	Activated	0V	
25	Ground	Accessory relay-1 control	Output	Push-button	OFF	Battery voltage	
(BR)	Cround	7.0000001 Froidy-1 Control	Caiput	ignition switch	ON	0V	
27	Ground	Ignition relay-1 control	Output	Push-button	OFF	Battery voltage	
(Y)	Oround	ignition relay i control	Output	ignition switch	ON	0V	
28	Ground	Front blower motor relay	Output	Push-button	OFF	Battery voltage	
(LA/W)	Oround	control	Cutput	ignition switch	ON	0V	
30 (V)	Ground	Auto light reference ground	Output	Push-button ignition switch	ON	0V	
33	Ground	Combination switch output	Output	Combination switch	OFF	(V) 15 10 5 0 ****10ms PKIB4960J 7.0 — 8.0V	
(LG)	Oround	5	Output	(Wiper inter- mittent dial 1)	INT VOLUME 2	40	
					INT VOLUME 3	(V) 15	
					RR WIPER INT	10 5 0	
					RR WIPER ON	++10ms PKIB4958J	
						1.2V	
					OFF	0V	
					FR FOG	40	
				Combination	TAIL LAMP	(V) 15	
34 (Y)	Ground	Combination switch input 5	Input	switch (Wiper inter- mittent dial 1)	TURN RH	10 5 0	
				micon dia 1)	NO LIGHT	++10ms PKIB4958J	
						1.0V	

Terminal No. Description				Value		
(Wire (+)	color)	Signal name	Input/ Output		Condition	(Approx.)
35 (BG)	Ground	Security indicator	Output	Security indi- cator	ON Blinking OFF	OV (V) 15 10 5 0 JPMIA0014GB 11.3V Battery voltage
36 (G)	Ground	Combination switch output 3	Output	Combination switch (Wiper inter- mittent dial 1)	OFF FR WASHER RR WASHER TURN LH TURN RH	(V) 15 10 5 0 7.0 - 8.0V PKIB4960J 7.0 - 8.0V PKIB4958J 1.2V
37 (GR)	Ground	Combination switch output 4	Output	Combination switch (Wiper inter- mittent dial 1)	OFF FR WIPER LOW FR WIPER HI FR WIPER INT NO LIGHT	(V) 15 10 5 0 7.0 - 8.0V PKIB4960J 7.0 - 8.0V PKIB4958J 1.2V

(Mire color)		Description	T			Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
38		Combination switch output		Combination switch	OFF	(V) 15 10 5 0 PKIB4960J 7.0 – 8.0V
(V)	Ground	1	Output	(Wiper inter-	HI BEAM	
				mittent dial 1)	PASSING	(V) 15 10
					FR FOG	5 0 → +10ms PKIB4958J
						1.2V
39		Combination switch output		Combination switch	OFF	(V) 15 10 + 10ms PKIB4960J 7.0 – 8.0V
(W)	Ground	2	Output	(Wiper inter-	INT VOLUME 1	
				mittent dial 4)	HEADLAMP	(V) 15
					AUTO LIGHT	10
					TAIL LAMP	0 ++10ms PKIB4958J 1.2V
				Main power	Unlock	Battery voltage
40 (SB)	Ground	Main power window and door lock/unlock switch un- lock signal	Input	window and door lock/un- lock switch (door lock/un- lock switch)	Lock	0V
					ON (pressed)	0V
46 (R)	Ground	Back door request switch	Input	Back door opener switch (request switch)	OFF (released)	(V) 15 10 5 10 ms JPMIA0016GB

	nal No. color)	Description			On and thin an	Value
(+)	(-)	Signal name	Input/ Output	(Condition	(Approx.)
50 (W)	Ground	Right rear door switch	Input	Rear door switch RH	OFF (door closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (door open)	0V
51 (LG)	Ground	Back door switch	Input	Back door lock assem- bly (door ajar switch)	OFF (door closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (door open)	11.8V 0V
52 (R)	Ground	Left rear door switch	eft rear door switch Input	Rear door switch LH	OFF (door closed)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (door open)	0V
53 (SB)	Ground	Passenger door switch	Input	Front door switch RH	OFF (door closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (door open)	0V
55	Ground	Rear wiper autostop switch	Input	Push-button ignition switch	Rear wiper stop position	Battery voltage
(LA/G)	Ground	Treat wiper autostop switch	прис	ON	Any position other than rear wiper stop	0V
56	Ground	Back door open switch	Input	Back door	Switch released	Battery voltage
(Y)	2.364			opener switch	Switch pressed	0V

	nal No.	Description	Т.			Value	
(+)	color)	Signal name	Input/ Output		Condition	(Approx.)	Α
57 (SB)	Ground	Driver door switch	Input	Front door switch LH	OFF (door closed)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	B C
					ON (door open)	0V	
60 (L)	Ground	CAN H	Input/ Output		_	_	Е
61		Outside key antenna (rear		Back door request switch	Intelligent Key in antenna detection area	(V) 15 10 5 0 JMKIA0062GB	F
(BR)	Ground	bumper) B	Output	operated with push-button ignition switch OFF	Intelligent Key not in antenna detection area	(V) 15 10 5 0 JMKIA0063GB	I
					Intelligent Key in antenna detection area	(V) 15 10 5 0	K
62 (Y)	Ground	Inside key antenna (console) B	Output	Push-button ignition switch OFF	Intelligent Key not in antenna detection area	JMKIA0062GB (V) 15 10 5 0 JMKIA0063GB	N O

	nal No.	Description				Value
(+)	color)	Signal name	Input/ Output	(Condition	(Approx.)
63	Ground	Inside key antenna (con-	Output	Push-button ignition switch	Intelligent Key in antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(L)	Gloana	sole) A	Сифи	ŎFF	Intelligent Key not in antenna detection area	(V) 15 10 5 0 1 s JMKJA0063GB
64		Outside key antenna (rear		Back door request switch	Intelligent Key in antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(G)	Ground	bumper) A	Output	operated with push-button ignition switch OFF	Intelligent Key not in antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
79 (LA/W)	Ground	High-mounted stop lamp output	Output	Brake pedal	Released Depressed	0V Battery voltage
80 (P)	Ground	CAN L	Input/ Output		_	
					ON (pressed)	0V
82 (W)	Ground	Passenger request switch	Input	Front outside handle as- sembly RH request switch	OFF (released)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V

	inal No.	Description				Value	А
(+)	e color)	Signal name	Input/ Output	•	Condition	(Approx.)	Α
84 (BR)	Ground	Combination switch input 2	Input	Combination switch (Wiper inter- mittent dial 1)	OFF HI BEAM RR WASHER FR WIPER HI INT VOLUME 3	0V (V) 15 10 5 0 10ms	B C
85 (SB)	Ground	Combination switch input 1	Input	Combination switch (Wiper intermittent dial 1)	OFF INT VOLUME 1 FR WASHER FR WIPER LOW	1.0V 0V (V) 15 10 10 10 10 10 10 10 10 10 10	E F
					INT VOLUME 2	PKIB4958J 1.0V	G
86 (P)	Ground	Combination switch input 3	Input	Combination switch (Wiper inter- mittent dial 1)	PASSING HEADLAMP FR WIPER INT RR WIPER INT	(V) 15 10 5 0 PKIB4958J 1.0V	H I J
87 (BG)	Ground	Combination switch input 4	Input	Combination switch (Wiper inter- mittent dial 1)	OFF AUTO LIGHT TURN LH RR WIPER ON	OV (V) 15 10 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K L
88 (W)	Ground	Start switch backlight LED	Output	Push-button ignition switch illumination	ON OFF	5.5V 0V	Ν
92 (BR)	Ground	Front door lock assembly LH key cylinder switch lock signal	Input	Key cylinder switch	OFF (neutral) ON (lock)	Battery voltage 0V	0
93 (P)	Ground	Front door lock assembly LH key cylinder switch unlock signal	Input	Key cylinder switch	OFF (neutral) ON (unlock)	Battery voltage 0V	Р
94 (G)	Ground	CVT shift selector park position switch signal	Input	Selector lever	P position Except P position	0V Battery voltage	
95 (V)	Ground	Shorting input	Input	Push-button ignition switch	OFF	Battery voltage	

	nal No. color)	Description			Condition	Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
100		Outside key antenna (driv-		Front outside handle as- sembly LH re- quest switch	Intelligent Key in antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(V)	Ground	er side) A	Output	operated with push-button ignition switch OFF	Intelligent Key not in antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
101	Ground	Push-button ignition switch	Input	Push-button	Pressed	0V	
(Y)	Giouna	rusii-buttori igilittori switcii	input	ignition switch	Not pressed	Battery voltage	
104	Ground	Front door lock assembly LH knob switch unlock sig-	Input	Door lock	OFF (lock)	Battery voltage	
(R)	Oround	nal	mpat	knob	ON (unlock)	0V	
					ON (pressed)	0V	
105 (Y)	Ground	Driver request switch	Input	Front outside handle as- sembly LH re- quest switch	OFF (released)	(V) 15 10 5 0 10 ms JPMIA0016GB	
106 (W)	Ground	Audio unit/AV control unit accessory power supply	Input	Push-button ignition switch	ON	Battery voltage	
110 (BG)	Ground	Dimmer signal output (MR output)	Output	Push-button ignition switch ON	Either of the following conditions • Lighting switch OFF • The area around the vehicle is bright (Shine a light on the optical sensor)	0V	
					The area around the vehicle is dark (Block the light from the optical sensor)	Battery voltage	
114 (Y)	Ground	NATS antenna amp. B	Output	During wait- ing	Intelligent Key back- side is contacted to push-button ignition switch, turn ignition switch ON.	Just after pressing push-button ignition switch. Pointer of analog volt meter should move.	

BCM

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

	inal No. e color)	Description	1			Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
115 (W)	Ground	NATS antenna amp. A	Output	During wait- ing	Intelligent Key back- side is contacted to push-button ignition switch, turn ignition switch ON.	Just after pressing push-button ignition switch. Pointer of analog volt meter should move.
116	Ground	Inside key antenna (instru-	Output	Push-button	Intelligent Key in antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(BG)	Ground	ment center) B	Output	ignition switch - OFF	Intelligent Key not in antenna detection area	(V) 15 10 5 0 JMKIA0063GB
117	Ground	Inside key antenna (instru-	Output	Push-button ignition switch	Intelligent Key in antenna detection area	(V) 15 10 5 0 1 s 1 s JMKIA0062GB
(GR)	Ground	ment center) A	Cutput	OFF	Intelligent Key not in antenna detection area	(V) 15 10 5 0 JMKIA0063GB

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0

	nal No.	Description				Value
(Wire	(-)	Signal name	Input/ Output		Condition	(Approx.)
118	Ground	Ground Outside key antenna (pas- Outside key antenna (pas- Output Output		Intelligent Key in antenna detection area	(V) 15 10 5 0 1 s JMKJA0062GB	
(SB)	Glound	senger side) B	Output	switch operated with pushbutton ignition switch OFF	Intelligent Key not in antenna detection area	(V) 15 10 5 0 JMKIA0063GB
119	Ground Outside key antenna (pas- request Output Output	Intelligent Key in antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB			
(P)	Clound	senger side) A	Cutput	switch operated with push- button ignition switch OFF	Intelligent Key not in antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
120	Ground	Outside key antenna (driv-	Output	Front outside handle as- sembly LH re- quest switch operated with push-button ignition switch OFF	Intelligent Key in antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(BR)	Giound	er side) B	Output		Intelligent Key not in antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
125 (LG)	Ground	Stop lamp switch signal	Input	Brake pedal	Released Depressed	0V Battery voltage

	nal No.	Description	ı			Value
(+)	color)	Signal name	Input/ Output		Condition	(Approx.)
126	Crainad	Brake pedal position switch	lnn::4	Droko nodal	Released	0V
(W)	Ground	signal	Input	Brake pedal	Depressed	Battery voltage
132		Intelligent Key warning		Intelligent	Sounding	0V
(Y)	Ground	buzzer output	Output	Key warning buzzer	Not sounding	Battery voltage
					Turn signal switch OFF	0V
135 (BR)	Ground	Front combination lamp LH turn signal lamp output	Output	Push-button ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s
					Turn signal switch OFF	6.5 V 0V
136 (GR)	Ground	Front combination lamp RH turn signal lamp output	Output	Push-button ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s
139	0	Otantan auturalau aantural	0.44	Push-button	OFF	6.5 V Battery voltage
(G)	Ground	Starter cut relay control	Output	ignition switch	ON	0V
145	Ground	Back door lock assembly	Output	Back door opener switch pressed	Open (motor activated)	Battery voltage
(LA/V)	Ground	opener motor open	Output	Back door opener switch released	Closed (motor not activated)	0V
147	Ground	Rear wiper output	Output	Rear wiper	OFF	0V
(LA/R)		•	•		ON	Battery voltage
				Main power window and	Unlock (actuator activated)	Battery voltage
148 (W)	Ground	Rear door lock actuator LH and RH actuator unlock	Output	door lock/un- lock switch (door lock/un- lock switch)	Lock (actuator not activated)	0V
140		Door door lasticast state.		Main power window and	Lock (actuator activated)	Battery voltage
149 (L)	Ground	Rear door lock actuator LH and RH actuator lock	Output	door lock/un- lock switch (door lock/un- lock switch)	Unlock (actuator not activated)	0V
151	Ground	Luggage lamp control	Outout	Room lamp	OFF	Battery voltage
(R)	Ground	(pwm)	Output	relay	ON	0V
153	Ground	Rear combination lamp RH	Output	Brake nedal	Released	0V
(LA/W)	Giodila	stop lamp output	Output	Brake pedal	Depressed	Battery voltage

	nal No. color)	Description			O and disting	Value
(+)	(-)	Signal name	Input/ Output	(Condition	(Approx.)
					Turn signal switch OFF	0V
157 (GR)	Ground	Rear combination lamp LH turn signal/hazard lamp output	Output Push-button ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
158	Ground	Rear combination lamp LH	Output	Brake pedal	Released	0V
(LA/Y)	Ground	stop lamp output	Output	brake pedar	Depressed	Battery voltage
					Turn signal switch OFF	0V
160 (P)	Ground	Rear combination lamp RH turn signal/hazard lamp output	Output	Push-button ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
161 (W)	Ground	BCM power supply	Input	Push-button ignition switch	OFF	Battery voltage
162				Map lamp and/or per-	OFF	Battery voltage
(SB)	Ground	Interior lamp control (pwm)	Output	sonal lamp 2nd row	DOOR	0V
				Main power window and	Unlock (actuator activated)	Battery voltage
163 (L)	Ground	Front door lock actuator RH actuator unlock	Output	door lock/un- lock switch (door lock/un- lock switch)	Lock (actuator not activated)	OV
165		Front door lock actuator LH		Main power window and	Lock (actuator activated)	Battery voltage
165 (V)	Ground	and RH actuator lock	Output	door lock/un- lock switch (door lock/un- lock switch)	Unlock (actuator not activated)	0V
167 (LA/V)	Ground	Power door lock battery power supply	Input	Push-button ignition switch	OFF	Battery voltage
168 (BG)	Ground	Turn signal/hazard battery power supply	Input	Push-button ignition switch	OFF	Battery voltage
169 (GR)	Ground	Stop lamp battery power supply	Input	Push-button ignition switch	OFF	Battery voltage
170 (B)	Ground	Ground1	Input	Push-button ignition switch	ON	0V
171 (B)	Ground	Ground2	Input	Push-button ignition switch	ON	0V

BCM

	nal No.	D	escription				Value
(Wire	color)	Signal r	name	Input/ Output		Condition	(Approx.)
			Main power window and	Unlock (actuator activated)	Battery voltage		
172 (G)	Ground	Front door lock LH actuator un	,	Output	door lock/ur lock switch (door lock/u lock switch)	Lock (actuator not ac-	- 0V
175 (R)	Ground	Power door loc power supply	k2 battery	Input	Push-button ignition swite	l OFF	Battery voltage
176 (LG)	Ground	Rear wiper bate supply	tery power	Input	Push-buttor ignition swite	l OFF	Battery voltage
ail S	afe CONSULT	Display	F	ail-safe		Car	INFOID-00000001019592
			ne crankin	g Eras	Erase DTC		
32193: (32193: CHAIN OF BCM-ECM Inhibit engin				Erase DTC		
32562: I	LOW VOLT	ΓAGE	Inhibit engi	ne crankin	g 100 i	ns after the power supply	voltage increases to more than 8.8 V
	ECM CAN	00111	Inhibit engi			n any of the following con	

DTC Inspection Priority Chart

B261E: FUEL MIS CONFIG

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

Inhibit engine cranking

· Receives engine status signal (CAN)

INFOID:0000000010195930

BCM initialization

Priority	DTC	
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)	K
3	B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2196: DONGLE NG B2198: NATS ANTENNA AMP	L
	 B2556: ENG START SW B2557: VEHICLE SPEED B2602: SHIFT P DIAG B260F: ECM CAN COMM B2614: ACC RELAY REQ F/B B2615: BLOWER RELAY CIRC 	BCS
4	 B2616: IGN RELAY2 REQ F/B B261A: ENGINE SW B261E: FUEL MIS CONFIG B26FC: KEYFOB MISS REGISTRATION 	0
	 B27D1: ST CUT RELAY OFF STUCK FAIL B27D2: ST CUT RELAY ON STUCK FAIL C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG 	Р

Priority	DTC
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE RR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RR C1708: [NO DATA] FL C1709: [NO DATA] FL C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1730: FLAT TIRE FL C1731: FLAT TIRE FR C1732: FLAT TIRE FR C1733: FLAT TIRE RR C1733: FLAT TIRE RL C1734: CONTROL UNIT C1735: IGN CIRCUIT OPEN C1765: WSSP DATA FAIL FL C1766: WSSP DATA FAIL FR C1767: WSSP DATA FAIL RR C1769: CONFIG SETTING C1771: G SENSOR FAIL FL C1771: G SENSOR FAIL FR C1772: G SENSOR FAIL RR
6	B2621: INSIDE ANTENNA 1 B2622: INSIDE ANTENNA 2

DTC Index

NOTE:

Details of time display

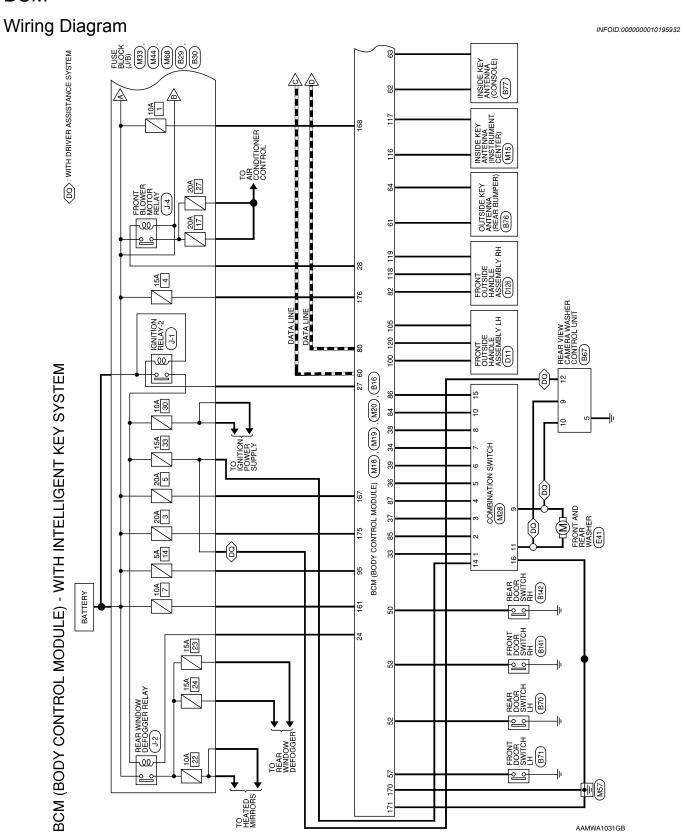
- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1
 → 2 → 3...38 → 39 after returning to the normal condition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

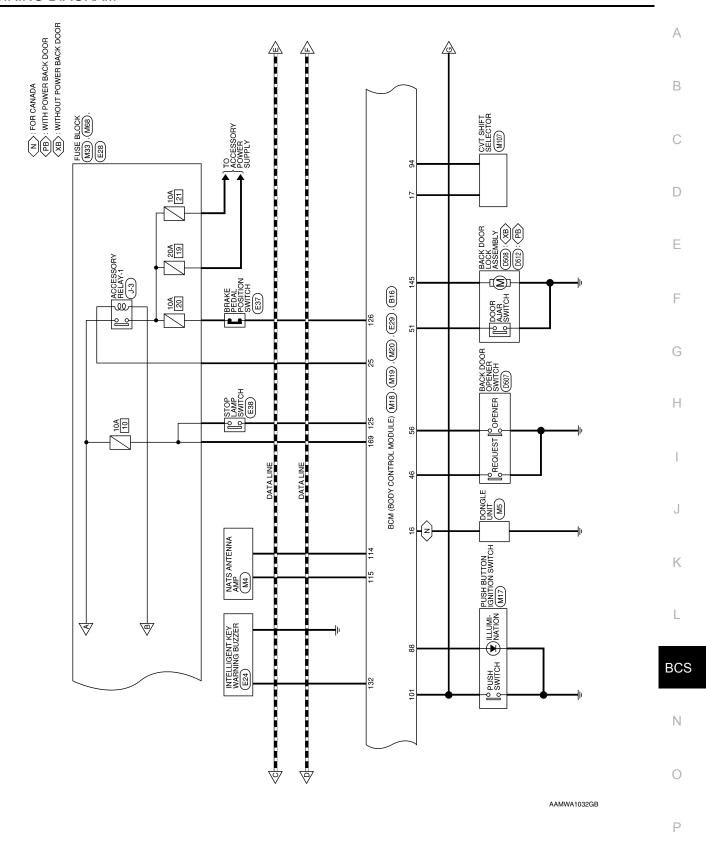
CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference page
No DTC is detected. Further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-64, "Description"
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-65, "DTC Logic"
U0415: VEHICLE SPEED SIG	_	_	_	BCS-66, "Description"
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-73, "DTC Logic"
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-74, "DTC Logic"
B2196: DONGLE NG		_	_	SEC-75, "Description"
B2198: NATS ANTENNA AMP.	_	_	_	SEC-77, "DTC Logic"
B2556: ENG START SW	_	×	_	SEC-79, "DTC Logic"
B2557: VEHICLE SPEED	_	×	_	SEC-81, "DTC Logic"
B2562: LOW VOLTAGE	×	_	_	BCS-67, "DTC Logic"
B2602: SHIFT P DIAG	_	×	_	SEC-82, "DTC Logic"

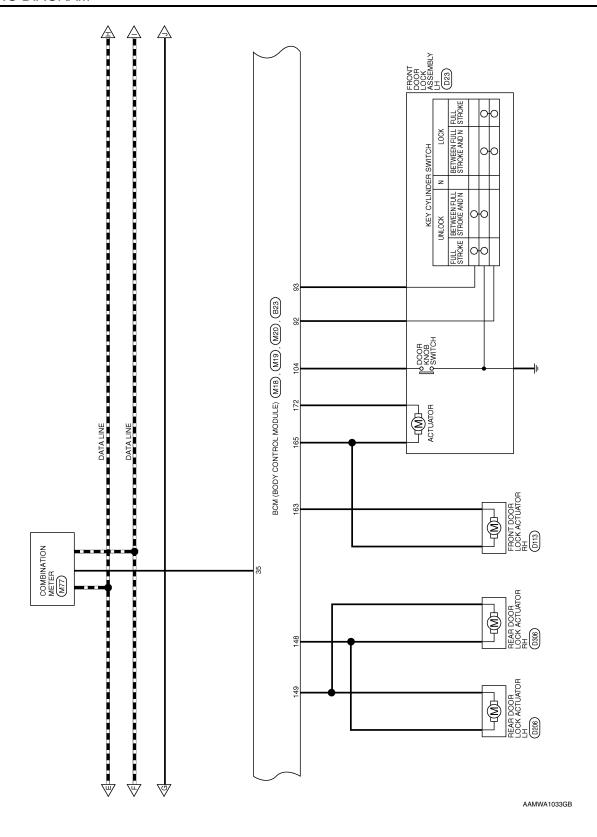
ECU DIAGNOSIS INFORMATIOI	<u> </u>			ELLIGENT KET GTGTEN
CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference page
B260F: ECM CAN COMM	×	×	_	SEC-85, "Description"
B2614: ACC RELAY REQ F/B	_	×	_	PCS-64, "DTC Logic"
B2615: BLOWER RELAY CIRC	_	×	_	PCS-66, "DTC Logic"
B2616: IGN RELAY2 REQ F/B	_	×	_	PCS-68, "DTC Logic"
B261A: PUSH-BTN IGN SW	_	×	_	PCS-70, "DTC Logic"
B261E: FUEL MIS CONFIG	×	× (Turn ON for 15 seconds)	_	SEC-87, "Description"
B2621: INSIDE ANTENNA 1	_	_	_	DLK-137, "DTC Logic"
B2622: INSIDE ANTENNA 2	_	_	_	DLK-139, "DTC Logic"
B26FC: KEYFOB MISS REGISTRATION	_	_	_	SEC-89, "DTC Logic"
B27D1: ST CUT RELAY OFF STUCK FAIL	_	_	_	SEC-90, "DTC Logic"
B27D2: ST CUT RELAY ON STUCK FAIL	_	_	_	SEC-93, "DTC Logic"
C1704: LOW PRESSURE FL	_	_	×	
C1705: LOW PRESSURE FR	_	_	×	WT 04 IIDTO Lawiell
C1706: LOW PRESSURE RR	_	_	×	WT-24, "DTC Logic"
C1707: LOW PRESSURE RL	_	_	×	
C1708: [NO DATA] FL	_	_	×	
C1709: [NO DATA] FR	_	_	×	M/T 00 UDTO Leadell
C1710: [NO DATA] RR	_	_	×	WT-26, "DTC Logic"
C1711: [NO DATA] RL	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	×	W.T. 00
C1718: [PRESSDATA ERR] RR	_	_	×	WT-29, "DTC Logic"
C1719: [PRESSDATA ERR] RL	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	×	WT-31, "DTC Logic"
C1730: FLAT TIRE FL	_	_	×	
C1731: FLAT TIRE FR	_	_	×	WT 00 IIDTO I . I II
C1732: FLAT TIRE RR	_	_	×	WT-32, "DTC Logic"
C1733: FLAT TIRE RL	_	_	×	
C1734: CONTROL UNIT	_	_	×	WT-34, "DTC Logic"
C1735: IGN CIRCUIT OPEN	_	_	×	WT-36, "DTC Logic"
C1765: WSSP DATA FAIL FL	_	_	×	
C1766: WSSP DATA FAIL FR	_	_	×	M/T 20 IIDTO December II
C1767: WSSP DATA FAIL RL	_	_	×	WT-38, "DTC Description"
C1768: WSSP DATA FAIL RR	_	_	×	
C1769: CONFIG SETTING	_	_	×	WT-39, "DTC Description"
C1770: G SENSOR FAIL FL	_		×	
C1771: G SENSOR FAIL FR	_		×	MT 40 "DTC Description"
C1772: G SENSOR FAIL RR	_	_	×	WT-40, "DTC Description"
C1773: G SENSOR FAIL RL		_	×	

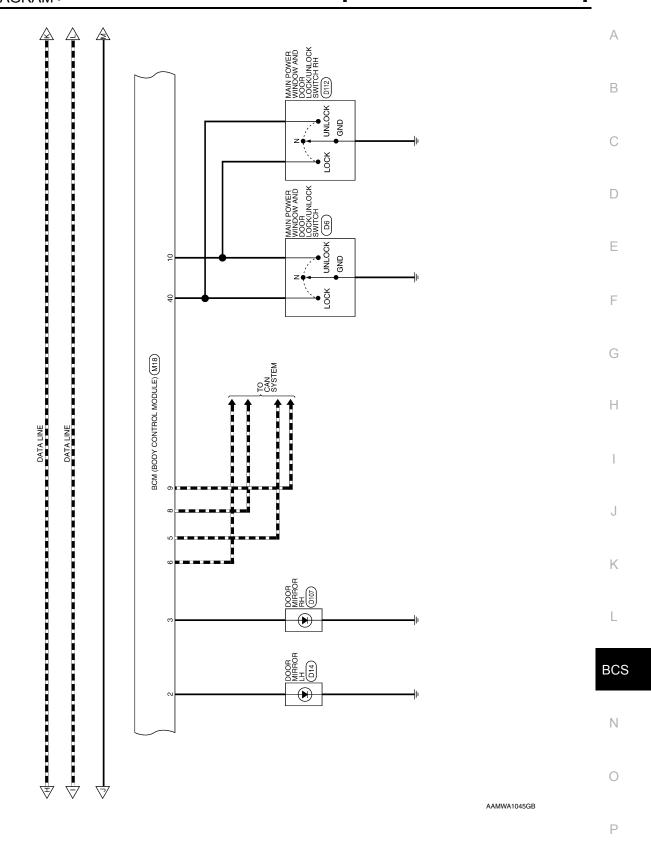
WIRING DIAGRAM

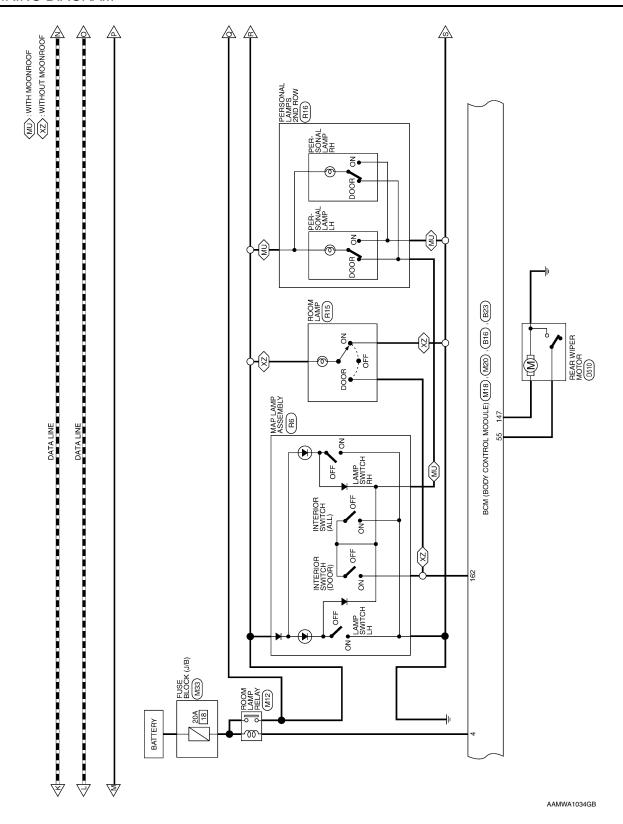
BCM

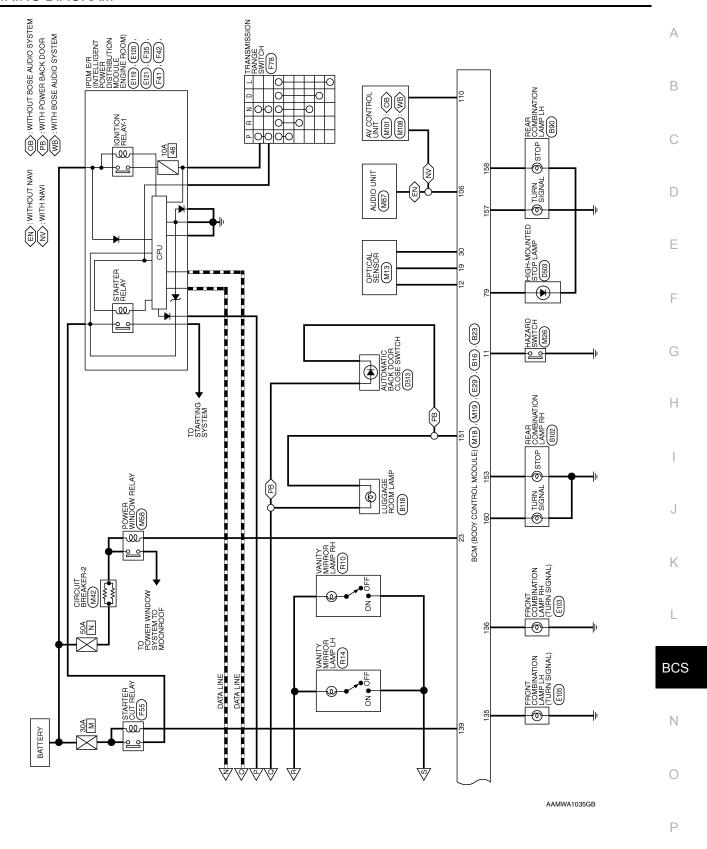












BCM (BODY CONTROL MODULE) - WITH INTELLIGENT KEY SYSTEM CONNECTORS

Terminal No. 20 21	Color of Wire	Signal Name
22	ı	1
23	g	O WL AUTHORIZATION RL
24	LA/R	O DEFROSTER RL D
25	BR	O BAT TEMP1 RL
26	ı	ı
27	>	O IGN1 RL
28	LA/W	O IGN2 RL
59	_	-
30	^	O GND AUTOLIGHT SENSOR
31	ı	I
32	1	ı
33	re	I CSW 5
34	>	O CSW 5
35	BG	O SECURITY LED
36	g	I CSW 3
37	GR	I CSW 4
38	^	I CSW 1
39	W	I CSW 2
40	SB	I DOORUNLOCK SW

				3	35 34 33 32 31 30 29 28 27 26 25 24 23 2
	_			4	24
	င္က			2	25
	Ë			7 6	56
	Z			7	27
	ö			8	28
	≿		/	စ	53
	Q (i)		I IV	유	30
	<u>@</u> 5	_	I IN	Ξ	31
∞	BCM (BOE MODULE)	₹		12	32
M18	M⊠	GF		13	33
	Φ.			14	34
	Ē	ᅙ		15	35
ž	ž	ပိ		16	36
ō	or	o		17	37
ect G	ect	ect		8	38
Ĕ	Ē	É	H.S.	20 19 18 17 16 15 14 13 12 11 10 9	40 39 38 37 36
Connector No.	Connector Name BCM (BODY CONTROL MODULE)	Connector Color GRAY	停工	8	40
_	_				

Signal Name	=	O DI FR LEFT D	O DI FR RIGHT D	O SPARE4 RL N	CAN-L	CAN-H	_	CAN-H	CAN-L	NS NOOHLOOG I	I HAZARD SW D	O PWR AUTOLIGHT SENSOR	_	_	_	DONGLE UART	O PWR ATDVC	_	I AUTOLIGHT SENSOR
Color of Wire	1	LG/G	LAY	Ь	Œ	Τ	_	٦	В	BG	Υ	W	-	I	ı	Ь	Т	ı	ГG
Terminal No.	1	2	ဇ	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19

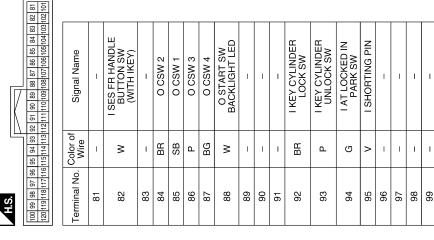
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M20	Connector Name BCM (BODY CONTROL MODULE)	BROWN	17168 165 164 163 162 161 178 175 174 173 172 171 170 169 168
Connector No.	Connector Name	Connector Color BROWN	原 H.S.

Signal Name	I PWR ECU	O PWM ROOMLAMP 1	O AS LOCK OR UNLOCK D	I	O DR OR FR LOCK D	1	I PWR DOORLOCK1	I PWR FLASHERS	I PWR STOP LAMP	I GND1	I GND2	O FR OR DR UNLOCK D	-	-	I PWR DOORLOCK2	I PWR WIPER
Color of Wire	Μ	SB	_	1	>	1	LAV	BG	GR	В	В	ŋ	_	_	œ	FG
Terminal No.	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176

Signal Name	SES EXT DR ANTENNA A	I START SW	ı	I	I DR KNOB SW	I SES DR HANDLE BUTTON SW	O AUTO ACC2	-	_	1	O MR OUTPUT	_	_	ı	O IMMOBILIZER KAZASHI A (WITH IKEY)	O IMMOBILIZER KAZASHI A (WITH IKEY)	SES INT FRONT ANTENNA B (WITH IKEY)	SES INT FRONT ANTENNA A (WITH IKEY)	SES EXT AS ANTENNA B (WITH IKEY)	SES EXT AS ANTENNA A (WITH IKEY)	SES EXT DR ANTENNA B (WITH IKEY)
Color of Wire	^	>	-	ı	н	\	M	-	_	_	BG	_	_	-	Υ	W	BG	GR	SB	Ь	BR
Terminal No.	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120

Connector No.	M19
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK



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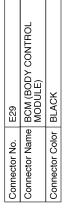
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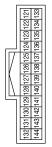
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Connector Name | COMBINATION SWITCH

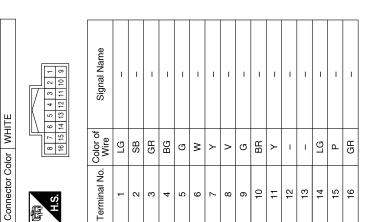
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Connector No.









I BRAKE SW2

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125 126 127

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I BRAKE SW1

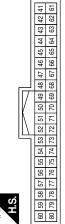
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Connector No.	B23
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color GRAY	GRAY
H.S.	151 1501 1491 1491

Terminal No.	Color of Wire	Signal Name
145	LAV	O TGATE OPENER
146	_	_
147	LA/R	O RR WIPER
148	Μ	O RR UNLOCK B
149	٦	O RR LOCK B
150	ı	ı
151	Н	O PWM ROOMLAMP 5
152	_	-
153	M/Y/	O STOP LAMP1
154	_	_
155	_	_
156	ı	I
157	GR	O DI RR LEFT B
158	LA/Y	O STOP LAMP2 NISSAN EUR
159	1	_
160	d	O DI RR RIGHT B

Signal Name	I DR DOOR2 SW	ı	ı	CAN-H	SES EXT REAR ANTENNA B	SES INT MIDDLE ANTENNA B	SES INT MIDDLE ANTENNA A	SES EXT REAR ANTENNA A	ı	-	ı	ı	-	-	ı	1	1	I	1	1	I	1	O STOP LAMP3	CAN-L
Color of Wire	SB	1	ı	Τ	BR	>	Τ	G	1	_	1	1	_	_	_	_	_	_	_	_	_	_	LA/W	Ь
Terminal No.	22	58	59	09	61	62	63	64	65	99	29	89	69	20	71	72	73	74	75	92	77	78	79	80

Connector No.	B16
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color GREEN	GREEN



Signal Name	ı	_	ı	-	ı	I SES BACKDOOR BUTTON SW	ı	-	-	I RR DOOR SW	I TGATE SW	I RL DOOR SW	I AS DOOR2 SW	-	I RR AUTOSTOP SW	I TGATE OPENER SW
Color of Wire	ı	Ι	ı	I	ı	<u>«</u>	ı	ı	ı	>	ГG	ш	SB	ı	LA/G	>
Terminal No.	41	42	43	7 7	45	46	47	48	67	50	51	25	53	54	55	99

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INSPECTION AND ADJUSTMENT

[WITH INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

BASIC INSPECTION

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description

INFOID:0000000010195933

BEFORE REPLACEMENT

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

NOTE:

If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replacing BCM.

AFTER REPLACEMENT

CAUTION:

- When replacing BCM, you must perform "After Replace ECU" with CONSULT.
- Complete the procedure of "After Replace ECU" in order.
- If you set incorrect "After Replace ECU", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- When replacing BCM, perform the system initialization (NATS).
- When replacing BCM, perform "Configuration" of CAN gateway.

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

1. SAVING VEHICLE SPECIFICATION (BCM)

CONSULT

Enter "Re/Programming, Configuration" and perform "Before Replace ECU" to save or print current vehicle specification.

NOTE:

If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replacing BCM.

>> GO TO 2.

2.saving vehicle specification (can gateway)

(P)CONSULT

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>LAN-75</u>, "CONSULT Function".

NOTE:

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

>> GO TO 3.

3.REPLACE BCM

Replace BCM. Refer to BCS-75, "Removal and Installation".

>> GO TO 4.

4. WRITING VEHICLE SPECIFICATION (BCM)

(P)CONSULT

- Enter "Re/Programming, Configuration".
- 2. If "Before Replace ECU" operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press "Confirm" to write vehicle specification. Refer to BCS-61, "CONFIGURATION (BCM): Work Procedure".

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

3. If "Before Replace ECU" operation tion" to write vehicle specification.	was not performed, select "After Replace ECI Refer to <u>BCS-61, "CONFIGURATION (BCM) :</u>	J" or "Manual Configura- Work Procedure".
>> GO TO 5.		
5.INITIALIZE BCM (NATS)		
Perform BCM initialization. (NATS)		
>> GO TO 6.		
6.WRITING VEHICLE SPECIFICATION	N (CAN GATEWAY FUNCTION)	
©CONSULT Perform "WRITE CONFIGURATION – vehicle specification. Refer to LAN-77.	Config file" or "WRITE CONFIGURATION – N "Work Procedure".	fanual selection" to write
>> Work End. CONFIGURATION (BCM)		
CONFIGURATION (BCM) : De	escription	INFOID:000000010195935
Vehicle specification needs to be writte Configuration has three functions as fo	n with CONSULT because it is not written afte llows:	r replacing BCM.
Function	Description	_
"Before Replace ECU"	 Reads the vehicle configuration of current BCM. Saves the read vehicle configuration. 	
"After Replace ECU"	Writes the vehicle configuration with manual selection.	
"Select Saved Data List"	Writes the vehicle configuration with saved data.	
 SULT. Complete the procedure of "Select If you set incorrect "Select Saved I Configuration is different for each 	rform "Select Saved Data List" or "After Re Saved Data List" or "After Replace ECU" in Data List" or "After Replace ECU", incidents vehicle model. Confirm configuration of ea List" or "After Replace ECU" except for ne	n order. s might occur. ch vehicle model.
CONFIGURATION (BCM): Wo	ork Procedure	INFOID:000000010195936
1.WRITING MODE SELECTION		_
(a) CONSULT		
Select "Reprogramming, Configuration"	of BCM.	
When writing saved data>>GO TO 2. When writing manually>>GO TO 3.		
2.PERFORM "SAVED DATA LIST"		
(P)CONSULT		
Automatically "Operation Log Selection	n" window will display if "Before Replace ECU	" was performed. Select
applicable file from the "Save Data List"	and press Commit .	
>> Work End		

⊕CONSULT

1. Select "After Replace ECU" or "Manual Configuration".

 ${f 3.}$ PERFORM "AFTER REPLACE ECU" OR "MANUAL CONFIGURATION"

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

- 2. Identify the correct model and configuration list. Refer to BCS-62, "CONFIGURATION (BCM): Configuration List".
- 3. Confirm and/or change setting value for each item.

CAUTION:

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

Select "Next".

CAUTION:

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

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

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> Work End.

CONFIGURATION (BCM): Configuration List

INFOID:0000000010195937

CAUTION:

Thoroughly read and understand the vehicle specification. Incorrect settings may result in abnormal control of ECU.

MANUAL SE	ETTING ITEM
Items	Setting value
I-KEY	WITH ⇔ WITHOUT
DTRL	WITH ⇔ WITHOUT
AUTO DOOR UNLOCK TIMING	WITH I-KEY ⇔ W/O I-KEY

⇔: Items which confirm vehicle specifications

SHIPPING MODE CANCEL OPERATION

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

SHIPPING MODE CANCEL OPERATION

Work Procedure

1. SHIPPING MODE CANCEL OPERATION

- 1. Turn ignition switch OFF.
- 2. Push in (switch on) the extended storage fuse switch. Refer to PG-73, "How To Check".
- 3. Turn ignition switch ON.
- 4. Turn ignition switch OFF and wait at least 2 seconds.

>> GO TO 2.

$2.\mathsf{SHIPPING}$ MODE CANCEL CHECK

- Turn ignition switch ON.
 Check that extended storage fuse warning message is not displayed on information display.
 - >> Work End.

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000010195940

Refer to LAN-8, "System Description".

DTC Logic

DTC DETECTION LOGIC

NOTE

U1000 can be set if a module harness was disconnected and reconnected, perhaps during a repair. Confirm that there are actual CAN diagnostic symptoms and a present DTC by performing the Self Diagnostic Result procedure.

CONSULT Display	DTC Detection Condition	Possible cause
CAN COMM CIRCUIT [U1000]	When any listed module cannot communicate with CAN communication signal continuously for 2 seconds or more with ignition switch ON.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. Transmission Receiving (ECM) Receiving (VDC/TCS/ABS) Receiving (METER/M&A) Receiving (TCM) Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:0000000010195942

1. PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 second or more.
- 2. Check "SELF- DIAG RESULTS".

Is "CAN COMM CIRCUIT" displayed?

YES >> Perform CAN Diagnosis as described in DIAGNOSIS section of CONSULT Operation Manual.

NO >> Refer to GI-41, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1010]	BCM detected internal CAN communication circuit mal- function.	BCM

Diagnosis Procedure

INFOID:0000000010195944

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to BCS-75, "Removal and Installation".

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U0415 VEHICLE SPEED SIG

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

U0415 VEHICLE SPEED SIG

Description INFOID:000000010195945

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC U0415 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-64, "DTC Logic".
- If DTC U0415 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-65, "DTC Logic".

CONSULT Display	DTC Detection Condition	Possible Cause
VEHICLE SPEED SIG [U0415]	When the vehicle speed signal received from the ABS actuator and electric unit (control unit) remains abnormal for 2 seconds or more.	ABS systemCombination meter systemCAN bus harness

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION

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

Is any DTC detected?

YES >> Refer to BCS-48, "DTC Index".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010195947

${f 1}$. ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of ABS with CONSULT. Refer to BRC-44, "CONSULT Function".

Is any DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to <u>BRC-55</u>, "<u>DTC Index</u>".

NO >> GO TO 2.

$oldsymbol{2}.$ Check abs actuator and electric unit (control unit) power supply and ground circuit

Check ABS actuator and electric unit (control unit) power and ground. Refer to <u>BRC-80</u>, "<u>Diagnosis Procedure</u>".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

$oldsymbol{3}$. COMBINATION METER SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of METER M&A with CONSULT. Refer to MWI-21, "CONSULT Function (METER/M&A)".

Is any DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to MWI-30, "DTC Index".

NO >> Refer to GI-41, "Intermittent Incident".

B2562 LOW VOLTAGE

<	DT	C/CII	30L	ΙΙΤΙ	DIA(GNO	212	>

[WITH INTELLIGENT KEY SYSTEM]

B2562 LOW VOLTAGE

DTC Logic INFOID:0000000010195948

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible cause
LOW VOLTAGE [B2562]	When the power supply voltage to BCM remains less than 8.8V for 120 seconds or more.	Harness or connector (power supply circuit) Vehicle battery

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION

- 1. Erase DTC.
- 2. Turn ignition switch OFF.
- Perform the Self Diagnostic Result of BCM with CONSULT, after the ignition switch has been turned ON for 120 seconds or more.

Is any DTC detected?

YES >> Refer to BCS-67, "Diagnosis Procedure".

>> Inspection End. NO

Diagnosis Procedure

CHECK BATTERY VOLTAGE

Check battery voltage.

Is battery voltage less than 8.8V?

>> Charge battery and retest. Refer to CHG-11, "Work Flow (With EXP-800 NI or GR8-1200 NI)" or CHG-14, "Work Flow (Without EXP-800 NI or GR8-1200 NI)".

NO >> GO TO 2.

$oldsymbol{2}$. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit. Refer to BCS-68, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. BCM SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of BCM with CONSULT. Refer to BCS-24, "BCM: CONSULT Function (BCM -BCM)".

Is DTC B2562 CRNT?

YES >> Replace BCM. Refer to BCS-75, "Removal and Installation".

NO >> Refer to GI-41, "Intermittent Incident". **BCS**

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INFOID:0000000010195949

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000010195952

Regarding Wiring Diagram information, refer to BCS-50. "Wiring Diagram".

1. CHECK FUSE

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
161	BCM power supply	7 (10A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect BCM connector M20.
- Check voltage between BCM connector M20 and ground.

В	СМ	Ground	Voltage (Approx.)	
Connector	Terminal	Ground		
M20	161	_	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

BCM		Ground	Continuity	
Connector Terminal		Ground		
M20	170		Yes	
IVIZU	171	_	165	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000010195953

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Regarding Wiring Diagram information, refer to BCS-50, "Wiring Diagram".

1. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect BCM connector M18 and combination switch connector.
- Check continuity between BCM connector M18 and combination switch connector M28.

Cianal	всм		Combination switch		Continuity
Signal Connector		Terminal	Connector	Terminal	Continuity
INPUT 1		38		8	
INPUT 2		39		6	
INPUT 3	M18	36	M28	5	Yes
INPUT 4		37		3	
INPUT 5		33		1	

Is the inspection result normal?

>> GO TO 2. YFS

NO >> Repair or replace harness or connectors.

2. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check continuity between BCM connector M18 and ground.

Signal	ВСМ			O antino di c
	Connector	Terminal		Continuity
INPUT 1		38		
INPUT 2		39	Ground	
INPUT 3	M18	36		No
INPUT 4		37		
INPUT 5		33		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK BCM OUTPUT VOLTAGE

- Connect BCM connector M18 and combination switch connector.
- Turn ignition switch ON.
- Check voltage between BCM connector M18 and ground.

Signal -	BCM		Ground	Valtage
	Connector	Terminal	Ground	Voltage
INPUT 1		38		
INPUT 2		39		
INPUT 3	M18	36	_	Refer to BCS-28, "Reference Value".
INPUT 4		37		
INPUT 5		33		

BCS-69 Revision: November 2013 2014 Rogue NAM **BCS**

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> Replace the combination switch. Refer to BCS-76, "Removal and Installation".

NO >> Replace BCM. Refer to BCS-75, "Removal and Installation".

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

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Regarding Wiring Diagram information, refer to BCS-50, "Wiring Diagram".

1. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect BCM connector M19 and combination switch connector.
- Check continuity between BCM connector M19 and combination switch connector M28.

Signal	ВСМ		Combination switch		Continuity
	Signal	Connector	Terminal	Connector	Terminal
OUTPUT 1		85		2	
OUTPUT 2		84		10	
OUTPUT 3	M19	86	M28	15	Yes
OUTPUT 4		87		4	
OUTPUT 5		34		7	

Is the inspection result normal?

YFS >> GO TO 2.

NO >> Repair or replace harness or connectors.

$oldsymbol{2}$. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check continuity between BCM connector M19 and ground.

Signal	ВСМ			O antinovito
	Connector	Terminal		Continuity
OUTPUT 1		85		
OUTPUT 2		84	Ground	
OUTPUT 3	M19	86		No
OUTPUT 4		87		
OUTPUT 5		34		

Is the inspection result normal?

YES >> GO TO 3.

>> Repair or replace harness or connectors. NO

$3.\,$ CHECK BCM INPUT VOLTAGE

- Connect BCM connector M19 and combination switch connector.
- Turn ignition switch ON.
- Check voltage between BCM connector M19 and ground.

Signal	BCM		Ground	Valtage
	Connector	Terminal	Giouna	Voltage
OUTPUT 1		85		
OUTPUT 2		84		
OUTPUT 3	M19	86	_	Refer to <u>BCS-28</u> , "Ref- erence Value".
OUTPUT 4		87		
OUTPUT 5		34		

BCS-71 Revision: November 2013 2014 Rogue NAM **BCS**

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-75, "Removal and Installation".

NO >> Replace the combination switch. Refer to <u>BCS-76</u>, "Removal and Installation".

COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table

- 1. Perform the data monitor of CONSULT to check for any malfunctioning item.
- 2. Check the malfunction combinations.

Malfunction item: >	Ma	lfun	ction	item:	×
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								Data	monito	or item							
Malfunction combination	FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	INT VOLUME	RR WIPER ON	RR WIPER INT	RR WASHER SW	TURN SIGNAL R	TURN SIGNAL L	TAIL LAMP SW	HI BEAM SW	HEAD LAMP SW	LIGHT OFF SW	PASSING SW	AUTO LIGHT SW	FR FOG SW
A												×			×		×
В					×						×		×			×	
С			×					×	×	×							
D	×	×		×										×			
E					×	×	×										
F		×	×		×												
G	×				×			×				×					
Н				×			×						×		×		
1						×				×						×	
J									×		×			×			×
K		All Items															
L			If only	one it	tem is	detect	ed or t	he iter	n is no	t appli	cable t	o the o	combir	ations	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
Α	Combination switch INPUT 1 circuit	
В	Combination switch INPUT 2 circuit	
С	Combination switch INPUT 3 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-69, "Diagnosis Procedure".
D	Combination switch INPUT 4 circuit	part Holdi to <u>500 to, Bragholo Hoddallo</u> .
Е	Combination switch INPUT 5 circuit	
F	Combination switch OUTPUT 1 circuit	
G	Combination switch OUTPUT 2 circuit	
Н	Combination switch OUTPUT 3 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to BCS-71, "Diagnosis Procedure".
I	Combination switch OUTPUT 4 circuit	and parts rollor to <u>age in a augment recounter</u> .
J	Combination switch OUTPUT 5 circuit	
K	ВСМ	Replace BCM. Refer to BCS-75, "Removal and Installation".
L	Combination switch	Replace the combination switch. Refer to BCS-76, "Removal and Installation".

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NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NORMAL OPERATING CONDITION

Description INFOID:000000010337002

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-63. "Work Procedure"</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 >

[WITH INTELLIGENT KEY SYSTEM]

REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

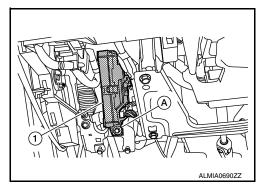
Removal and Installation

CAUTION:

Before replacing the BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-60, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Work Procedure".

REMOVAL

- 1. Disconnect the negative battery terminal. Refer to PG-77, "Removal and Installation".
- 2. Remove the instrument lower panel LH. Refer to IP-22, "Removal and Installation".
- 3. Remove the bolt (A), then pull out the BCM (1).



Disconnect the harness connectors from the BCM and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When replacing BCM, perform "WRITE CONFIGURATION" Refer to <u>BCS-61</u>, "CONFIGURATION (BCM): Work Procedure".
- When replacing BCM, perform the system initialization (NATS). Refer to the CONSULT immobilizer mode and follow the on-screen instructions.
- When replacing BCM, if new BCM does not come with keyfobs attached, all existing keyfobs must be re-registered. Refer to the CONSULT immobilizer mode and follow the on screen instructions.

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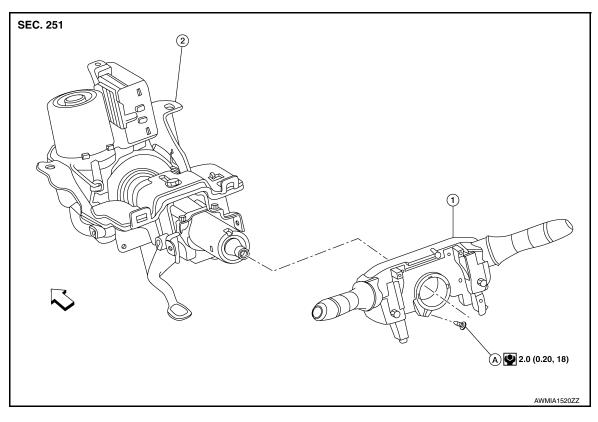
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COMBINATION SWITCH

Exploded View



1. Combination switch

2. Steering column

A. Screw

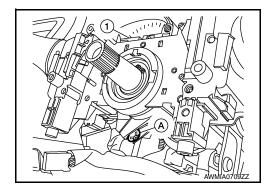
← Front

Removal and Installation

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REMOVAL

- 1. Remove the steering angle sensor. Refer to <u>BRC-139</u>, "Removal and Installation".
- 2. Disconnect harness connector from combination switch.
- 3. Remove screw (A) and combination switch (1).



INFOID:0000000010195958

INSTALLATION

Installation is in the reverse order of removal.

PRECAUTIONS

< PRECAUTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
 injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
 Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.

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PREPARATION

[WITHOUT INTELLIGENT KEY SYSTEM]

PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000010430555

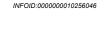
The actual chang of the tools ma	v differ from those tools illustrated here.
The actual shape of the tools ma	y diller from those tools illustrated here.

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

SYSTEM DESCRIPTION

COMPONENT PARTS
BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: Component Parts Location



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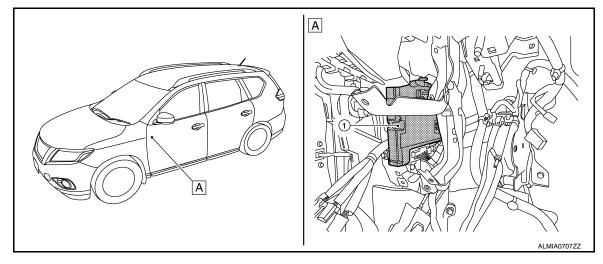
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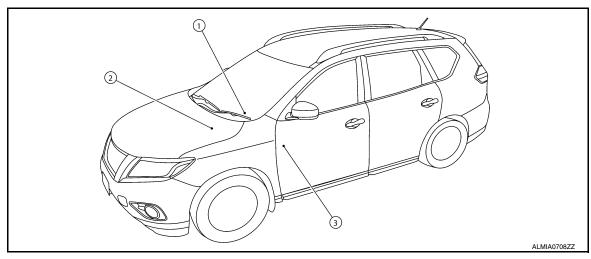
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- 1. BCM
- A. Behind instrument panel (LH)

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location INFOID:000000010256048



- Combination meter
 Refer to MWI-6, "METER SYSTEM:
 Component Parts Location".
- IPDM E/R
 Refer to PCS-4, "Component Parts
 Location".
- 3. BCM
 Refer to BCS-79, "BODY CONTROL
 SYSTEM: Component Parts Location".

SYSTEM BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: System Description

INFOID:0000000010256049

OUTLINE

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

BCM FUNCTION LIST

System	Refer to
Combination switch reading system	BCS-81, "COMBINATION SWITCH READING SYSTEM: System Description"
Signal buffer system	BCS-84, "SIGNAL BUFFER SYSTEM : System Description"
Power consumption control system	BCS-84, "POWER CONSUMPTION CONTROL SYSTEM: System Description"
Headlamp system	EXL-12, "HEADLAMP SYSTEM : System Description" (halogen headlamp)
Daytime light system	EXL-14, "DAYTIME RUNNING LIGHT SYSTEM: System Description" (halogen headlamp)
Turn signal and hazard warning lamps system	EXL-15, "TURN SIGNAL AND HAZARD WARNING LAMP SYS- TEM: System Description" (halogen headlamp)
Parking, license plate and tail lamps system	EXL-15, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Description" (halogen headlamp)
Exterior lamp battery saver system	EXL-18, "EXTERIOR LAMP BATTERY SAVER SYSTEM: System Description" (halogen headlamp)
Interior room lamp control system	INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"
Interior room lamp battery saver system	INL-9, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description"
Front wiper and washer system	WW-8, "FRONT WIPER AND WASHER SYSTEM : System Description"
Rear wiper and washer system	WW-10, "REAR WIPER AND WASHER SYSTEM : System Description"
Warning chime system	WCS-6. "WARNING CHIME SYSTEM : System Description"
Door lock system	DLK-287, "POWER DOOR LOCK SYSTEM: System Description"
Back door open system	DEN-201, 1 OWEN DOON LOOK STOTEM . System Description
Nissan vehicle immobilizer system (NVIS)	SEC-117, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS: System Description"
Vehicle security system	SEC 440 "VEHICLE SECURITY SYSTEM : System Description"
Panic alarm	SEC-118, "VEHICLE SECURITY SYSTEM : System Description"
Rear window defogger system	DEF-6, "System Description"
Power window system	PWC-8. "System Description"
RAP (retained accessory power) system	BCS-94, "RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)"
TPMS (tire pressure monitoring system)	WT-8, "System Description"

COMBINATION SWITCH READING SYSTEM

COMBINATION SWITCH READING SYSTEM: System Description

INFOID:0000000010256051

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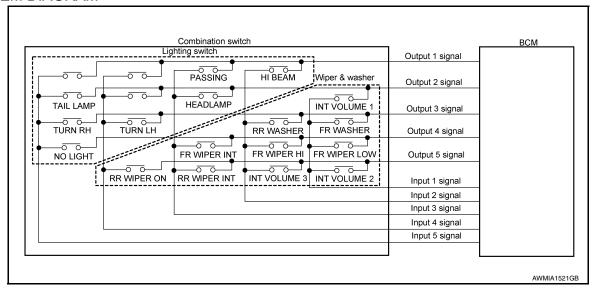
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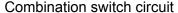
SYSTEM DIAGRAM

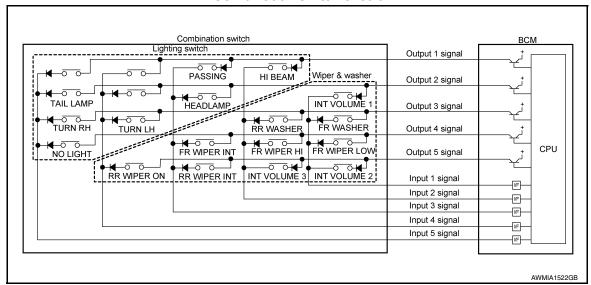


OUTLINE

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

COMBINATION SWITCH MATRIX





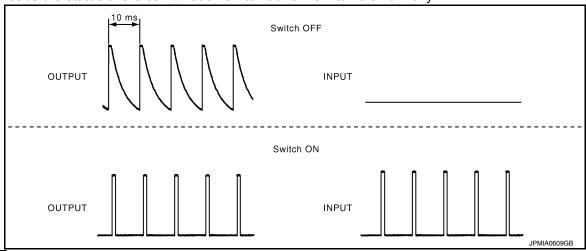
Combination switch INPUT-OUTPUT system list

System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
OUTPUT 1	_	HI BEAM	PASSING	_	_
OUTPUT 2	INT VOLUME 1	_	HEADLAMP	_	TAIL LAMP
OUTPUT 3	FR WASHER	RR WASHER	_	TURN LH	TURN RH
OUTPUT 4	FR WIPER LOW	FR WIPER HI	FR WIPER INT	_	NO LIGHT
OUTPUT 5	INT VOLUME 2	INT VOLUME 3	RR WIPER INT	RR WIPER ON	_

COMBINATION SWITCH READING FUNCTION

Description

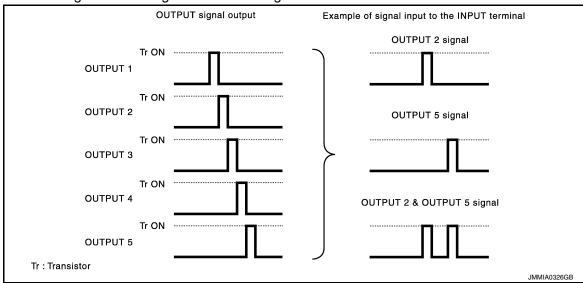
• BCM reads the status of the combination switch at 10 ms intervals normally.



NOTE:

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

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



Operation Example

In the following operation example, the combination of the status signals of the combination switch is replaced as follows: INPUT 1 - 5 to "1 - 5" and OUTPUT 1 - 5 to "A - E".

Example 1: When a switch (TURN RH) is turned ON

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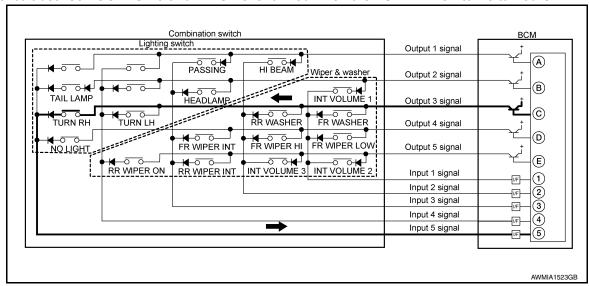
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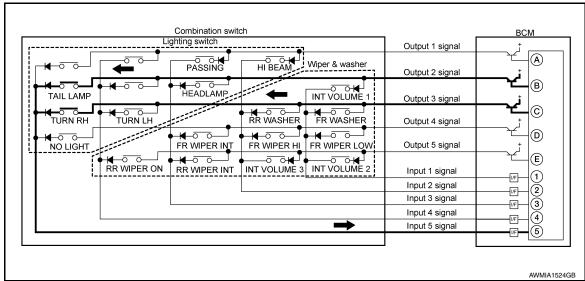
The circuit between OUTPUT 3 and INPUT 5 is formed when the TURN RH switch is turned ON.



- BCM detects the combination switch status signal "5C" when the signal of OUTPUT 3 is input to INPUT 5.
- BCM judges that the TURN RH switch is ON when the signal "5C" is detected.

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

• The circuits between OUTPUT 2 and INPUT 5 and between OUTPUT 3 and INPUT 5 are formed when the TAIL LAMP switch and TURN RH switch are turned ON.



- BCM detects the combination switch status signal "5BC" when the signals of OUTPUT 2 and OUTPUT 3 are input to INPUT 5.
- BCM judges that the TAIL LAMP switch and TURN RH switch are ON when the signal "5BC" is detected.

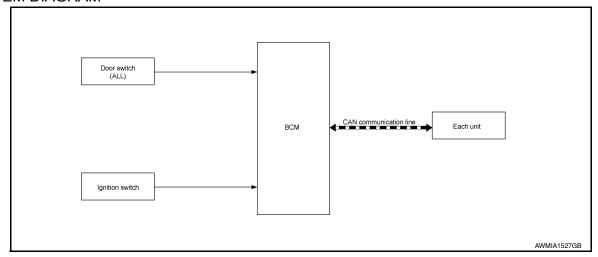
WIPER INTERMITTENT DIAL POSITION SETTING (FRONT WIPER INTERMITTENT OPERATION) BCM judges the wiper intermittent dial 1 - 4 by the status of INT VOLUME 1, 2, and 3 switches.

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

SIGNAL BUFFER SYSTEM: System Description

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SYSTEM DIAGRAM



OUTLINE

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

SIGNAL TRANSMISSION FUNCTION LIST

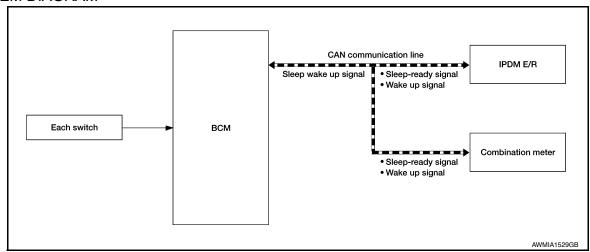
Signal name	Input	Output	Description
Ignition switch ON signalIgnition switch signal	Ignition switch	IPDM E/R (CAN)	Inputs the ignition switch signal and transmits the ignition switch status judged with BCM via CAN communication.
Door switch signal	Any door switch	Combination meter (CAN) IPDM E/R (CAN)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

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM: System Description

INFOID:0000000010256055

SYSTEM DIAGRAM



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 and combination meter) that operates with the ignition switch OFF.

SYSTEM

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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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 each switch changes from 10 ms interval to 60 ms interval.

SLEEP MODE ACTIVATION

- BCM receives the sleep-ready signal (ready) from IPDM E/R and combination meter via CAN communica-
- 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 performs 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	Н
 Receiving the sleep-ready signal (ready) from all units Ignition switch: OFF Vehicle security system alarm and panic alarm: No operation Warning lamp: No operation 		
 Brake switch: OFF Turn signal indicator lamp: No operation Exterior lamp: OFF Door lock status: No change CONSULT communication status: No communication 	 Interior room lamp battery saver: Time out RAP system: OFF NATS: No operation Tire pressure monitoring system: Stop 	J
Meter display signal: Non-transmissionDoor switch status: No changeRear window defogger: OFF		К

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 are 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 are 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.

BCM wake-up condition	CAN wake-up condition
 Door lock assembly LH (key cylinder switch): Lock or unlock Door lock switch: OFF→ON Door unlock switch: OFF→ON Back door opener switch: OFF→ON 	 Receiving the sleep-ready signal (Not-ready) from any units Ignition 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 Back door switch: OFF→ON, ON→OFF Stop lamp switch signal: ON

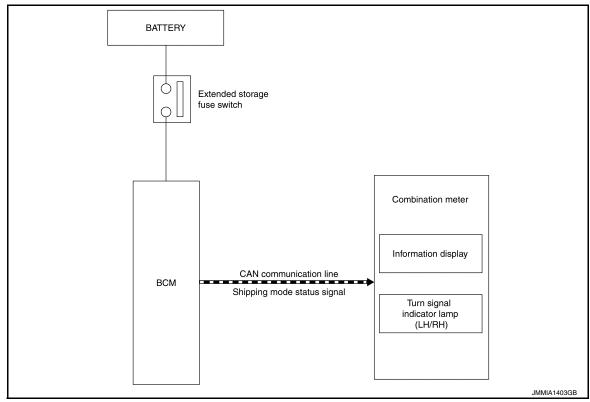
BCS-85 Revision: November 2013 2014 Rogue NAM

SHIPPING MODE CONTROL SYSTEM

SHIPPING MODE CONTROL SYSTEM: System Description

INFOID:0000000010256056

SYSTEM DIAGRAM



DESCRIPTION

- BCM switches the status (shipping mode or normal mode) by itself according to the extended storage fuse switch condition, and transmits shipping mode status signal to combination meter and each unit via CAN communication.
- When shipping mode function operates, each control unit does not detect DTCs.
- BCM control functions are limited in shipping mode. Refer to BCS-134, "Description".
- The combination meter displays extended storage fuse warning message* on the information display, and turns the turn signal indicator lamp (LH/RH) ON, when BCM is in shipping mode.
- *: When shipping mode function operates, "SHIPPING MODE ON PUSH STORAGE FUSE" is displayed.

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	 The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

		Direct Diagnostic Mode						
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK			×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Remote keyless entry system	MULTI REMOTE ENT					×		
Exterior lamp	HEADLAMP			×	×			
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×		×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Back door open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

DOOR LOCK

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000010256058

SELF DIAGNOSTIC RESULT

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Refer to BCS-108, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLK].

WORK SUPPORT

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

^{* :} Initial setting

REAR DEFOGGER

REAR DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

INFOID:000000001025605

DATA MONITOR

Monitor Item [Unit]	Description
REAR DEF SW [On/Off]	Indicates condition of rear window defogger switch.

ACTIVE TEST

Test Item	Description
REAR DEFOGGER	This test is able to check rear window defogger operation [Off/On].

WORK SUPPORT

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Support Item	Setting	Description			
	MODE3	Rear defogger turns OFF after 1 minute.			
SET R-DEF TIMER	MODE2	Rear defogger remains ON until turned OFF.			
	MODE1*	Rear defogger turns OFF after 15 minutes.			
* : Initial setting BUZZER BUZZER : CONSULT	Function (B	BCM - BUZZER)	10256060		
DATA MONITOR	·	,			
Monitor Item [Unit]		Description			
TAIL LAMP SW [On/Off]	Indicates cond	lition of combination switch.			
DOOR SW-DR [On/Off]	Indicates cond	lition of front door switch LH.			
CDL LOCK SW [On/Off]	Indicates cond	dition of lock signal from door lock and unlock switch.			
ACTIVE TEST					
Test Item		Description			
SEAT BELT WARN TEST	This test is abl	le to check seat belt warning chime operation [On/Off].			
LIGHT WARN ALM	This test is abl	This test is able to check light warning chime operation [On/Off].			
REVERSE WARNING	This test is abl	This test is able to check reverse warning chime operation [On/Off].			
ID REGIST WARNING	This test is abl	This test is able to check TPMS sensor ID regist warning chime operation [On/Off].			
INT LAMP INT LAMP : CONSUL [*] DATA MONITOR	T Function ((BCM - INT LAMP)	10256061		
INT LAMP : CONSUL	T Function (10256061		
INT LAMP : CONSUL		Description tes condition of front door switch LH.	10256061		
INT LAMP : CONSULDATA MONITOR Monitor Item [Unit]	Indicat	Description	10256061		
INT LAMP : CONSULDATA MONITOR Monitor Item [Unit] DOOR SW-DR [On/Off]	Indicat	Description tes condition of front door switch LH.	10256061		
INT LAMP : CONSULTION DATA MONITOR Monitor Item [Unit] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off]	Indicat Indicat Indicat	Description tes condition of front door switch LH. tes condition of front door switch RH.	10256061		
INT LAMP : CONSULTION DATA MONITOR Monitor Item [Unit] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off]	Indicat Indicat Indicat Indicat	Description tes condition of front door switch LH. tes condition of front door switch RH. tes condition of rear door switch RH.	10256061		
INT LAMP : CONSULTION Monitor Item [Unit] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RL [On/Off]	Indicat Indicat Indicat Indicat Indicat	Description tes condition of front door switch LH. tes condition of front door switch RH. tes condition of rear door switch RH. tes condition of rear door switch LH.	0256061		
INT LAMP : CONSULTION Monitor Item [Unit] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RL [On/Off] DOOR SW-BK [On/Off]	Indicat Indicat Indicat Indicat Indicat	Description tes condition of front door switch LH. tes condition of front door switch RH. tes condition of rear door switch RH. tes condition of rear door switch LH. tes condition of back door switch.	0256061		
INT LAMP : CONSULTION Monitor Item [Unit] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RL [On/Off] DOOR SW-BK [On/Off] CDL LOCK SW [On/Off]	Indicat Indicat Indicat Indicat Indicat Indicat Indicat	Description tes condition of front door switch LH. tes condition of front door switch RH. tes condition of rear door switch RH. tes condition of rear door switch LH. tes condition of back door switch. tes condition of lock signal from door lock and unlock switch.	0256061		
INT LAMP : CONSULTION Monitor Item [Unit] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RL [On/Off] DOOR SW-BK [On/Off] CDL LOCK SW [On/Off] CDL UNLOCK SW [On/Off]	Indicate Ind	Description tes condition of front door switch LH. tes condition of front door switch RH. tes condition of rear door switch RH. tes condition of rear door switch LH. tes condition of back door switch. tes condition of lock signal from door lock and unlock switch. tes condition of unlock signal from door lock and unlock switch.	0256061		
INT LAMP: CONSULTION Monitor Item [Unit] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RL [On/Off] DOOR SW-BK [On/Off] CDL LOCK SW [On/Off] CDL UNLOCK SW [On/Off] KEY CYL LK-SW [On/Off]	Indicat	Description tes condition of front door switch LH. tes condition of front door switch RH. tes condition of rear door switch RH. tes condition of rear door switch LH. tes condition of back door switch. tes condition of lock signal from door lock and unlock switch. tes condition of unlock signal from door lock and unlock switch. tes condition of lock signal from door lock and unlock switch.	0256061		
INT LAMP: CONSULTION Monitor Item [Unit] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RL [On/Off] DOOR SW-BK [On/Off] CDL LOCK SW [On/Off] CDL UNLOCK SW [On/Off] KEY CYL LK-SW [On/Off]	Indicate Ind	Description tes condition of front door switch LH. tes condition of front door switch RH. tes condition of rear door switch RH. tes condition of rear door switch LH. tes condition of back door switch. tes condition of lock signal from door lock and unlock switch. tes condition of unlock signal from door lock and unlock switch. tes condition of lock signal from door key cylinder switch. tes condition of unlock signal from door key cylinder switch.	0256061		
INT LAMP: CONSULTION Monitor Item [Unit] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RL [On/Off] DOOR SW-BK [On/Off] CDL LOCK SW [On/Off] CDL UNLOCK SW [On/Off] KEY CYL LK-SW [On/Off] KEY CYL UN-SW [On/Off] RKE-LOCK [On/Off]	Indicate Ind	Description tes condition of front door switch LH. tes condition of front door switch RH. tes condition of rear door switch RH. tes condition of rear door switch LH. tes condition of back door switch. tes condition of lock signal from door lock and unlock switch. tes condition of unlock signal from door lock and unlock switch. tes condition of lock signal from door key cylinder switch. tes condition of unlock signal from door key cylinder switch. tes condition of unlock signal from door key cylinder switch. tes condition of lock signal from door key cylinder switch.	0256061		
INT LAMP: CONSULTION Monitor Item [Unit] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RL [On/Off] DOOR SW-BK [On/Off] CDL LOCK SW [On/Off] CDL UNLOCK SW [On/Off] KEY CYL LK-SW [On/Off] KEY CYL UN-SW [On/Off] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off]	Indicate Ind	Description tes condition of front door switch LH. tes condition of front door switch RH. tes condition of rear door switch RH. tes condition of rear door switch LH. tes condition of back door switch. tes condition of lock signal from door lock and unlock switch. tes condition of unlock signal from door lock and unlock switch. tes condition of lock signal from door key cylinder switch. tes condition of unlock signal from door key cylinder switch. tes condition of unlock signal from door key cylinder switch. tes condition of lock signal from door key cylinder switch.	0256061		

WORK SUPPORT

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Support Item	Setting	Description
SET I/L D-UNLCK INTCON	On	Interior room lamp timer function ON.
SET I/E D-ONECK INTOON	Off*	Interior room lamp timer function OFF.

^{*:} Initial setting

MULTI REMOTE ENT

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

INFOID:0000000010256113

WORK SUPPORT

Support Item	Setting	Description
REMO CONT ID CONFIR	_	Keyfob ID code registration is displayed.

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEADLAMP)

INFOID:0000000010256062

DATA MONITOR

Monitor Item [Unit]	Description
TURN SIGNAL R [On/Off]	
TURN SIGNAL L [On/Off]	
TAIL LAMP SW [On/Off]	
HI BEAM SW [On/Off]	Indicates condition of combination switch.
HEAD LAMP SW [On/Off]	
LIGHT OFF SW [On/Off]	
PASSING SW [On/Off]	
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.

ACTIVE TEST

Test Item	Description
DAYTIME RUNNING LIGHT	This test is able to check daytime running lamp operation [On/Off].
ILL DIM SIGNAL	This test is able to check head lamp illumination dimming operation [On/Off].

WIPER

WIPER: CONSULT Function (BCM - WIPER)

INFOID:0000000010256063

DATA MONITOR

Monitor Item [Unit]	Description
FR WIPER HI [On/Off]	Indicates condition of wiper operation of combination switch.
FR WIPER LOW [On/Off]	
FR WASHER SW [On/Off]	
FR WIPER INT [On/Off]	

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item [Unit]	Description		
	Indicates front wiper auto stop signal received from IPDM E/R on CAN communication		
FR WIPER STOP [On/Off]	line.		
INT VOLUME [1 – 4]	Indicates condition of intermittent wiper operation of combination switch.		
RR WIPER ON [On/Off]			
RR WIPER INT [On/Off]	Indicates condition of rear wiper operation of combination switch.		
RR WASHER SW [On/Off]			
RR WIPER STOP [On/Off]	Indicates rea	Indicates rear wiper motor auto stop input from rear wiper motor.	
ACTIVE TEST			
Test Item		Description	
FR WIPER	This test is at	ole to check front wiper operation [Hi/Lo/INT/Off].	
RR WIPER	This test is at	ole to check rear wiper operation [On/Off].	
WORK SUPPORT			
Support Item	Setting	Description	
WIPER SPEED SETTING	On	Front wiper intermittent time linked with vehicle speed and wiper intermitent dial position.	
WIPER SPEED SETTING	Off [*]	Front wiper intermittent time is not linked with vehicle speed and wiper in termittent dial position.	
*: Initial Setting FLASHER FLASHER : CONSULT Fu	ınction (BCN	M - FLASHER)	
FLASHER FLASHER : CONSULT Fu DATA MONITOR	Inction (BCN		
FLASHER FLASHER : CONSULT Fu	inction (BCN	M - FLASHER) Description	
FLASHER FLASHER : CONSULT Fu DATA MONITOR		Description	
FLASHER FLASHER : CONSULT FU DATA MONITOR Monitor Item [Unit]			
FLASHER FLASHER: CONSULT FU DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off]	Indicates cor	Description	
FLASHER FLASHER: CONSULT FU DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off]	Indicates cor	Description Indition of turn signal function of combination switch.	
FLASHER FLASHER: CONSULT FU DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off]	Indicates cor Indicates cor Indicates cor Indicates cor	Description Indition of turn signal function of combination switch. Indition of hazard switch. Indition of lock signal from Intelligent Key. Indition of unlock signal from Intelligent Key.	
FLASHER FLASHER: CONSULT FU DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off]	Indicates cor Indicates cor Indicates cor Indicates cor	Description Indition of turn signal function of combination switch. Indition of hazard switch. Indition of lock signal from Intelligent Key.	
FLASHER FLASHER: CONSULT FU DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off]	Indicates cor Indicates cor Indicates cor Indicates cor	Description Indition of turn signal function of combination switch. Indition of hazard switch. Indition of lock signal from Intelligent Key. Indition of unlock signal from Intelligent Key.	
FLASHER FLASHER: CONSULT FU DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off]	Indicates cor Indicates cor Indicates cor Indicates cor	Description Indition of turn signal function of combination switch. Indition of hazard switch. Indition of lock signal from Intelligent Key. Indition of unlock signal from Intelligent Key.	
FLASHER FLASHER: CONSULT FU DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-PANIC [On/Off] ACTIVE TEST	Indicates cor Indicates cor Indicates cor Indicates cor Indicates cor	Description Indition of turn signal function of combination switch. Indition of hazard switch. Indition of lock signal from Intelligent Key. Indition of unlock signal from Intelligent Key. Indition of panic alarm signal from Intelligent Key.	
FLASHER FLASHER: CONSULT FU DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-PANIC [On/Off] ACTIVE TEST	Indicates cor Indicates cor Indicates cor Indicates cor Indicates cor	Description Indition of turn signal function of combination switch. Indition of hazard switch. Indition of lock signal from Intelligent Key. Indition of unlock signal from Intelligent Key. Indition of panic alarm signal from Intelligent Key. Description	
FLASHER FLASHER: CONSULT FU DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-PANIC [On/Off] ACTIVE TEST Test Item FLASHER COMB SW	Indicates con	Description Indition of turn signal function of combination switch. Indition of hazard switch. Indition of lock signal from Intelligent Key. Indition of unlock signal from Intelligent Key. Indition of panic alarm signal from Intelligent Key. Description Description Description [Off/LH/RH].	
FLASHER FLASHER: CONSULT FU DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-PANIC [On/Off] ACTIVE TEST Test Item	Indicates con	Description Indition of turn signal function of combination switch. Indition of hazard switch. Indition of lock signal from Intelligent Key. Indition of unlock signal from Intelligent Key. Indition of panic alarm signal from Intelligent Key. Description Description Description [Off/LH/RH].	

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< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item [Unit]	Description	
FR WIPER HI [On/Off]		
FR WIPER LOW [On/Off]	Indicates condition of winer energtion of combination quitab	
FR WASHER SW [On/Off]	Indicates condition of wiper operation of combination switch.	
FR WIPER INT [On/Off]		
INT VOLUME [1 - 4]	Indicates condition of intermittent wiper operation of combination switch.	
RR WIPER ON [On/Off]		
RR WIPER INT [On/Off]	Indicates condition of rear wiper operation of combination switch.	
RR WASHER SW [On/Off]		
TURN SIGNAL R [On/Off]	Indicates condition of right turn signal operation of combination switch.	
TURN SIGNAL L [On/Off]	Indicates condition of left turn signal operation of combination switch.	
TAIL LAMP SW [On/Off]	Indicates condition of tail lamp switch operation of combination switch.	
HI BEAM SW [On/Off]	Indicates condition of Hi beam switch operation of combination switch.	
HEAD LAMP SW [On/Off]	Indicates condition of head lamp switch operation of combination switch.	
LIGHT OFF SW [On/Off]	Indicates condition of no light switch operation of combination switch.	
PASSING SW [On/Off]	Indicates condition of passing switch operation of combination switch.	

BCM

BCM: CONSULT Function (BCM - BCM)

INFOID:0000000010256068

ECU IDENTIFICATION

The BCM part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to BCS-108, "DTC Index".

WORK SUPPORT

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

CONFIGURATION

Refer to BCS-121, "CONFIGURATION (BCM): Description".

CAN DIAG SUPPORT MNTR

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

IMMU

IMMU: CONSULT Function (BCM - IMMU)

INFOID:0000000010256069

SELF DIAGNOSTIC RESULT Refer to <u>BCS-108</u>, "<u>DTC Index</u>".

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting	Description
CONFIRM DONGLE ID	1	Dongle ID can be checked.

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

BATTERY SAVER

BATTERY SAVER: CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000010256070

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DATA MONITOR

Monitor Item [Unit]	Description
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check battery saver operation [On/Off].

TRUNK

TRUNK: CONSULT Function (BCM - TRUNK)

INFOID:0000000010256071

DATA MONITOR

Monitor Item [Unit]	Description
BACK DOOR OPENER SW [On/ Off]	Indicates condition of back door opener switch.

THEFT ALM

THEFT ALM : CONSULT Function (BCM - THEFT ALM)

INFOID:0000000010256072

DATA MONITOR

Monitored Item	Description
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.

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[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

ACTIVE TEST

Test Item	Description
FLASHER	This test is able to check turn signal lamp operation [LH/RH/Off].
THEFT IND	This test is able to check security indicator lamp operation [On/Off].
VEHICLE SECURITY HORN	This test is able to check vehicle security horn operation [On].
HEADLAMP(HI)	This test is able to check vehicle security lamp operation [On].

WORK SUPPORT

Support Item	Setting	Description
SECURITY ALARM SET	On	Security alarm ON.
SECONT ALANWISET	Off	Security alarm OFF.

RETAINED PWR

RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000010256073

DATA MONITOR

Monitor Item [Unit]	Description	
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	

AIR PRESSURE MONITOR

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

INFOID:0000000010256075

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- · Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- · Register TPMS sensor IDs

SELF DIAGNOSTIC RESULT

NOTE:

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

Refer to BCS-108, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
AIR PRESS FL [kPa, kg/cm ² or Psi]	Indicates air pressure of front LH tire.
AIR PRESS FR [kPa, kg/cm ² or Psi]	Indicates air pressure of front RH tire.
AIR PRESS RR [kPa, kg/cm ² or Psi]	Indicates air pressure of rear RH tire.
AIR PRESS RL [kPa, kg/cm ² or Psi]	Indicates air pressure of rear LH tire.
ID REGST FL1 [Done/Yet]	Indicates ID registration status of front LH sensor.
ID REGST FR1 [Done/Yet]	Indicates ID registration status of front RH sensor.
ID REGST RR1 [Done/Yet]	Indicates ID registration status of rear RH sensor.
ID REGST RL1 [Done/Yet]	Indicates ID registration status of rear LH sensor.

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

BUZZER [Off/On] In	ndicates condition of low tire pressure warning lamp in combination meter.
ACTIVE TEST	ndicates condition of buzzer in combination meter.
Test Item	Description
FLASHER T	his test is able to check turn signal lamp operation [Off/LH/RH].
HORN T	his test is able to check horn operation [On].
WARNING LAMP T	his test is able to check tire pressure warning lamp operation [On/Off].
ID REGIST WARNING T	his test is able to check ID regist warning chime operation [On/Off].
WORK SUPPORT	
Support Item	Description
	he registered ID number is displayed.
ID REGIST R	efer to WT-21, "Description".

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ECU DIAGNOSIS INFORMATION

BCM

Reference Value

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- · Register TPMS sensor IDs

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
AIR PRESS FL	Front left tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS FR	Front right tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS RL	Rear left tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS RR	Rear right tire air pressure value	kPa, kg/cm ² , psi
BUZZER	Buzzer in combination meter OFF	Off
BUZZER	Buzzer in combination meter ON	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK SVV	Press door lock/unlock switch to the LOCK side	On
CDL LINII OCK CW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the UNLOCK side	On
DOOD CW AC	Front door RH closed	Off
DOOR SW-AS	Front door RH opened	On
DOOD OW DV	Back door closed	Off
DOOR SW-BK	Back door opened	On
DOOR SW-DR	Front door LH closed	Off
	Front door LH opened	On
DOOD CW DI	Rear door LH closed	Off
DOOR SW-RL	Rear door LH opened	On
DOOD OW DD	Rear door RH closed	Off
DOOR SW-RR	Rear door RH opened	On
ED MACHED OM	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED MIDED I OM	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On
ED WIDED III	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On
ED WIDED INT	Front wiper switch OFF	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDED STOD	Any position other than front wiper stop position	Off
FR WIPER STOP	Front wiper stop position	On
HAZADD SW	When hazard switch is not pressed	Off
HAZARD SW	When hazard switch is pressed	On

BCM

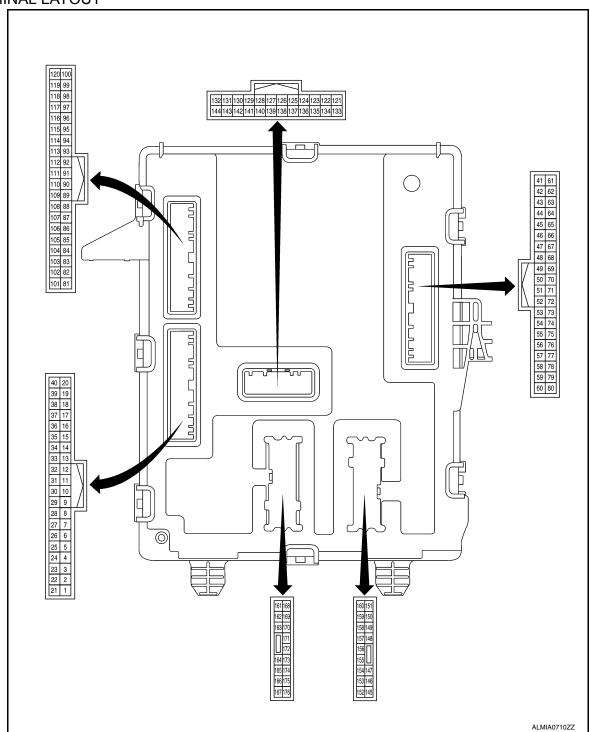
< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status	A
LIEAD LAMD CW	Headlamp switch OFF	Off	— A
HEAD LAMP SW	Headlamp switch ON	On	
HI BEAM SW	High beam switch OFF	Off	В
HI BEAW SW	High beam switch HI	On	
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 4	1 - 4	
KEY CYL LK-SW	Door key cylinder LOCK position	Off	С
KET CTE EK-SW	Door key cylinder other than LOCK position	On	
KEY CYL UN-SW	Door key cylinder UNLOCK position	Off	D
VET OTE ON-SW	Door key cylinder other than UNLOCK position	On	
LIGHT OFF SW	Headlamp switch ON	Off	
LIGHT OFF SW	Headlamp switch OFF	On	Е
PASSING SW	Other than lighting switch PASS	Off	
FASSING SW	Lighting switch PASS	On	F
REAR DEF SW	Rear window defogger switch OFF	Off	
REAR DEF 3W	Rear window defogger switch ON	On	
RR WASHER SW	Rear washer switch OFF	Off	G
RR WASHER SW	Rear washer switch ON	On	
RR WIPER INT	Rear wiper switch OFF	Off	
KK WIFEK INT	Rear wiper switch INT	On	— П
RR WIPER ON	Rear wiper switch OFF	Off	
RR WIFER ON	Rear wiper switch ON	On	
RR WIPER STOP	Any position other than rear wiper stop position	Off	
KK WIFEK STOF	Rear wiper stop position	On	
RKE-LOCK	When LOCK button of keyfob is not pressed	Off	J
RRE-LOCK	When LOCK button of keyfob is pressed	On	
RKE-PANIC	When PANIC button of keyfob is not pressed	Off	K
RRE-PAINIC	When PANIC button of keyfob is pressed	On	
RKE-UNLOCK	When UNLOCK button of keyfob is not pressed	Off	
RKE-UNLOCK	When UNLOCK button of keyfob is pressed	On	L
TAIL LAMD CVA	Lighting switch OFF	Off	
TAIL LAMP SW	Lighting switch ON	On	ВС
TUDNI SICNAL I	Turn signal switch OFF	Off	
TURN SIGNAL L	Turn signal switch LH	On	
TUDNI SICNAL D	Turn signal switch OFF	Off	N
TURN SIGNAL R	Turn signal switch RH	On	
	Low tire pressure warning lamp in combination meter OFF	Off	
WARNING LAMP	Low tire pressure warning lamp in combination meter ON	On	- 0

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TERMINAL LAYOUT



PHYSICAL VALUES

	ninal No. Description re color)				Condition	Value
(+)	(-)	Signal name	Input/ Output	(Condition	(Approx.)
					Turn signal switch OFF	0V
2 (LA/G)	Ground	Door mirror LH turn signal lamp output	gnal Output Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s	
					Turn signal switch OFF	6.5 V 0V
3 (LA/Y)	Ground	Door mirror RH turn signal lamp output	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
4				Ignition	Interior room lamp battery saver opera- tion timed out	Battery voltage
(P)	Ground	Room lamp relay control	Output	Ignition - switch OFF	Any time prior to inte- rior room lamp bat- tery saver operation timed out	0V
5 (R)	Ground	CAN L	Input/ Output		_	_
6 (L)	Ground	CAN H	Input/ Output		_	_
8 (L)	Ground	CAN H	Input/ Output		_	_
9 (R)	Ground	CAN L	Input/ Output		_	_
10 (BG)	Ground	Main power window and door lock/unlock switch lock signal	Input	Main power window and door lock/un- lock switch (door lock/un- lock switch)	Lock	Battery voltage 0V
					Pressed	0 V
11 (Y)	Ground	Hazard switch	Input	Hazard switch	Released	(V) 15 10 5 0 10 ms JPMIA0012GB

	nal No.	Description				Value
(Wire	(-)	Signal name	Input/ Output	(Condition	(Approx.)
12	Cround	Auto light nower aupply 5\/	Output	Ignition	OFF	0V
(W)	Ground	Auto light power supply 5V	Output	switch	ON	5V
16 (P)	Ground	Audio dongle	Input/ Output	Ignition switch	OFF	5V
17	Ground	CVT shift selector park po-	Output S	Selector lever	P position	0V
(L)	Cround	sition switch power	Output	Ocicotor icver	Except P position	Battery voltage
19	Ground	Auto light signal	Input	Ignition	Outside of vehicle is bright	Close to 5V
(LG)	0.000	, tate light eight.		switch ON	Outside of vehicle is dark	Close to 0V
23	Ground	Power window relay control	Output	Ignition	OFF	Battery voltage
(G)	Ordana	Tower military rollay control	Galpat	switch	ON	0V
24	Ground	Rear window defogger re-	Output	Rear window	Not activated	Battery voltage
(LA/R)	Ordana	lay control	Odipat	defogger	Activated	0V
25	Ground	Accessory relay-1 control	Output	Ignition	OFF	Battery voltage
(BR)	Ordana	7.0000001 Tolay Toolikiol	Output	switch	ON	0V
27	Ground	Ignition relay-1 control	Output	Ignition	OFF	Battery voltage
(Y)	0.00	- igo.		switch	ON	0V
28	Ground	Front blower motor relay	Output	Ignition	OFF	Battery voltage
(LA/W)		control		switch	ON	0V
30 (V)	Ground	Auto light reference ground	Output	Ignition switch	ON	0V
33	Ground	Combination switch output	Output	Combination switch	OFF	(V) 15 10 5 0 +-10ms PKIB4960J 7.0 - 8.0V
(LG)	Giodila	5	Output	(Wiper inter- mittent dial 1)	INT VOLUME 2	
				millerit ulai 1)	INT VOLUME 3	(V) 15
					RR WIPER INT	10 5
					RR WIPER ON	0 ++10ms PKIB4958J
					OFF	0V
					TAIL LAMP	
				Combination	TURN RH	(V) 15
34 (Y)	Ground	Combination switch input 5	Input	Combination switch (Wiper intermittent dial 1)	NO LIGHT	10 5 0 ++10ms PKIB4958J
						1.0V

BCM

	inal No. e color)	Description				Value
(+)	(-)	Signal name	Input/ Output	(Condition	(Approx.)
35 (BG)	Ground	Security indicator	Output	Security indi- cator	ON Blinking OFF	OV (V) 15 10 1 s JPMIA0014GB 11.3V Battery voltage
36 (G)	Ground	Combination switch output 3	Output	Combination switch (Wiper inter- mittent dial 1)	OFF FR WASHER RR WASHER TURN LH TURN RH	7.0 – 8.0V (V) 15 10 7.0 – 8.0V (V) 15 10 5 0 PKIB4960J 7.10ms PKIB4958J 1.2V
37 (GR)	Ground	Combination switch output 4	Output	Combination switch (Wiper inter- mittent dial 1)	OFF FR WIPER LOW FR WIPER HI FR WIPER INT NO LIGHT	(V) 15 10 5 0 7.0 - 8.0V PKIB4960J 7.0 - 8.0V

	nal No.	Description				Value
(+)	color)	Signal name	Input/ Output	(Condition	(Approx.)
38	Ground	Combination switch output	Output	Combination switch	OFF	(V) 15 10 5 0 +-10ms PKIB4960J 7.0 - 8.0V
(V)	Ground	1	Output	(Wiper inter- mittent dial 1)	HI BEAM	4.5
				millent diai 1)	PASSING	(V) 15
7					FR FOG	10 5 0 ++10ms PKIB4958J 1.2V
39		Combination switch output		Combination switch	OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0V
(W)	Ground	2	Output	(Wiper inter-	INT VOLUME 1	
				mittent dial 4)	HEADLAMP	(V) 15 10
					TAIL LAMP	10 5 0 ++10ms PKIB4958J 1.2V
				Main power	Unlock	Battery voltage
40 (SB)	Ground	Main power window and door lock/unlock switch un- lock signal	Input	window and door lock/un- lock switch (door lock/un- lock switch)	Lock	0V
50 (W)	Ground	Right rear door switch	Input	Rear door switch RH	OFF (door closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (door open)	0V

	nal No.	Description				Value
(+)	color)	Signal name	Input/ Output	(Condition	(Approx.)
51 (LG)	Ground	Back door switch	Input	Back door lock assem- bly (door ajar switch)	OFF (door closed)	(V) 15 10 5 0 10 ms
					ON (door open)	11.8V 0V
52 (R)	Ground	Left rear door switch	Input	Rear door switch LH	OFF (door closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (deer ener)	11.8V
					ON (door open)	0V
53 (SB)	Ground	Passenger door switch	Input	Front door switch RH	OFF (door closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (door open)	11.8 V 0V
55	Ground	Poor winer autosten awitch	Innut	Ignition	Rear wiper stop position	Battery voltage
(LA/G)	Giouna	Rear wiper autostop switch	Input	switch ON	Any position other than rear wiper stop	0V
56	Ground	Back door open switch	Input	Back door	Switch released	Battery voltage
(Y)	Cround		трис	opener switch	Switch pressed	0V
57 (SB)	Ground	Driver door switch	Input	Front door switch LH	OFF (door closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (door open)	0V
60 (L)	Ground	CAN H	Input/ Output		_	_
79 (LA/W)	Ground	High-mounted stop lamp output	Output	Brake pedal	Released Depressed	0V Battery voltage
80 (P)	Ground	CAN L	Input/ Output		_	

	nal No.	Description				Value					
(Wire (+)	(-)	Signal name	Input/ Output	(Condition	(Approx.)					
81	Ground	Key switch signal		Ignition	Ignition key inserted into ignition key cylinder	Battery voltage					
(L)	Ground	Ney Switch Signal	прис	Input switch	Ignition key removed from ignition key cyl-inder	0 V					
82 (LA/R)	Ground	Ignition switch start signal	Input	Ignition switch	OFF	0 V					
(LA/R)			-	SWILCH	START	Battery voltage					
					OFF	0V					
					HI BEAM RR WASHER	(V) 15					
84				Combination switch	FR WIPER HI	10 					
0 4 (BR)	Ground	Combination switch input 2	Input	(Wiper inter-	TICVVII LICTII	5 0					
				mittent dial 1)	INT VOLUME 3	++10ms PKIB4958J					
					OFF	0V					
										INT VOLUME 1	
				Combination switch	FR WASHER	(V) 15					
85	0	On a bin of in a side bin a side	lanat		FR WIPER LOW	10					
(SB)		Input	(Wiper intermittent dial 1)	INT VOLUME 2	0 +10ms PKIB4958J						
					OFF	0V					
								PASSING			
										HEADLAMP	(V) 15
86	0		lanat	Combination switch	FR WIPER INT	10					
(P)	Ground	Combination switch input 3	Input	Input	Input	Input	Input	(Wiper intermittent dial 1)	RR WIPER INT	0 + 10ms + PKIB4958J	
					OFF	0V					
					TURN LH						
87 (BG)	Ground	Combination switch input 4	Input	Combination switch (Wiper inter- mittent dial 1)	RR WIPER ON	(V) 15 10 5 0 ++10ms PKIB4958J 1.0V					
92	0	Front door lock assembly	las: 1	Key cylinder	OFF (neutral)	Battery voltage					
(BR)	Ground	LH key cylinder switch lock signal	Input	switch	ON (lock)	0V					
93	C=0::====	Front door lock assembly	lmm:-4	Key cylinder	OFF (neutral)	Battery voltage					
(P)	Ground	LH key cylinder switch un- lock signal	Input	switch	ON (unlock)	0V					

Terminal No. Description (Wire color)		Description				Value	
(+)	(-)	Signal name	Input/ Output	(Condition	(Approx.)	
94	Ground	CVT shift selector park po-	Input	Selector lever	P position	0V	
(G)	Giodila	sition switch signal	input	Selector level	Except P position	Battery voltage	
95 (V)	Ground	Shorting input	Input	Ignition switch	OFF	Battery voltage	
104	Cround	Front door lock assembly	lant	Door lock	OFF (lock)	Battery voltage	
(R)	Ground	LH knob switch unlock sig- nal	Input	knob	ON (unlock)	0V	
105	0	La alla de la CN alla de la	1	Ignition	OFF	0 V	
(Y)	Ground	Ignition switch ON signal	Input	switch	ON	Battery voltage	
106 (W)	Ground	Audio unit/AV control unit accessory power supply	Input	Ignition switch	ON	Battery voltage	
109 (P)	Ground	Immobilizer one way com- munication (clock) signal	Input/ Output	Ignition switch ON	While waiting	Ignition switch ON: pointer of tester should move.	
113 (LG)	Ground	Immobilizer two way com- munication signal	Input/ Output	Ignition switch ON	While waiting	Ignition switch ON: pointer of tester should move.	
125	Ground	Stop lamp switch signal	Input	Brake pedal	Released	0V	
(LG)	Ground	Stop lamp switch signal	input	Diake pedai	Depressed	Battery voltage	
126	Ground	Brake pedal position switch	Input	Brake pedal	Released	0V	
(W)	0.00	signal		Zrano poda:	Depressed	Battery voltage	
						Turn signal switch OFF	0V
135 (BR)	Ground	Front combination lamp LH turn signal lamp output	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
					Turn signal switch OFF	0V	
136 GR)	Ground	Front combination lamp RH turn signal lamp output	Output	ut Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
139 (G)	Ground	Starter cut relay control	Output	Ignition switch	OFF	Battery voltage	
(0)					ON	0V	
145	Ground	Back door lock assembly	open	Back door opener switch pressed	Open (motor activated)	Battery voltage	
₋A/V)	Siddid	opener motor open	Carput	Back door opener switch released	Closed (motor not activated)	0V	
147	Ground	Rear wiper output	Output	Rear wiper	OFF	0V	
A/R)	Ground	rtear wiper output	Output	Real Wipei	ON	Battery voltage	

	nal No. color)	Description			0 1111	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
148	wir	Main power window and door lock/un-	Unlock (actuator activated)	Battery voltage		
(W)	Ground	Rear door lock actuator LH and RH actuator unlock	Output	lock switch (door lock/un- lock switch)	Lock (actuator not activated)	0V
149		Rear door lock actuator LH		Main power window and door lock/un-	Lock (actuator activated)	Battery voltage
(L)	Ground	and RH actuator lock	Output	lock switch (door lock/un- lock switch)	Unlock (actuator not activated)	0V
151	Ground	Luggage lamp control	Output	Room lamp	OFF	Battery voltage
(R)	O. Garia	(pwm)	Carpar	relay	ON	0V
153	Ground	Rear combination lamp RH	Output	Brake pedal	Released	0V
(LA/W)		stop lamp output	17 - 7	1	Depressed	Battery voltage
					Turn signal switch OFF	0V
157 (GR)	Ground	Rear combination lamp LH turn signal/hazard lamp output	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E
158	Ground	Rear combination lamp LH	Outout	Drake medal	Released	0V
(LA/Y)	Giouna	stop lamp output	Output	Brake pedal	Depressed	Battery voltage
					Turn signal switch OFF	0V
160 (P)	Ground	Rear combination lamp RH turn signal/hazard lamp output	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 1 s PKID0926E
161 (W)	Ground	BCM power supply	Input	Ignition switch	OFF	Battery voltage
				Map lamp	OFF	Battery voltage
162 (SB)	Ground	Interior lamp control (pwm)	Output	and/or per- sonal lamp 2nd row	DOOR	0V
163		Front door lock actuator RH	_	Main power window and door lock/un-	Unlock (actuator activated)	Battery voltage
(L)	Ground	actuator unlock	Output	lock switch (door lock/un- lock switch)	Lock (actuator not activated)	0V

Terminal No.		Description				Value	_
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)	
				Main power window and	Lock (actuator activated)	Battery voltage	[
165 (V)	Ground	Front door lock actuator LH and RH actuator lock	Output	door lock/un- lock switch (door lock/un- lock switch)	Unlock (actuator not activated)	0V	(
167 (LA/V)	Ground	Power door lock battery power supply	Input	Ignition switch	OFF	Battery voltage	
168 (BG)	Ground	Turn signal/hazard battery power supply	Input	Ignition switch	OFF	Battery voltage	– D
169 (GR)	Ground	Stop lamp battery power supply	Input	Ignition switch	OFF	Battery voltage	[
170 (B)	Ground	Ground1	Input	Ignition switch	ON	0V	
171 (B)	Ground	Ground2	Input	Ignition switch	ON	0V	
172 (G)	Ground	Front door lock assembly LH actuator unlock	Output	Main power window and door lock/un- lock switch (door lock/un- lock switch)	Unlock (actuator activated)	Battery voltage	(
					Lock (actuator not activated)	0V	ŀ
175 (R)	Ground	Power door lock2 battery power supply	Input	Ignition switch	OFF	Battery voltage	
176 (LG)	Ground	Rear wiper battery power supply	Input	Ignition switch	OFF	Battery voltage	

Fail Safe

CONSULT Display	Fail-safe	Cancellation		
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC		
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC		
B2562: LOW VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V		
B260F: ECM CAN COMM	Inhibit engine cranking	When any of the following conditions are fulfilled Ignition switch changes to ON Receives engine status signal (CAN)		
B261E: FUEL MIS CONFIG	Inhibit engine cranking	BCM initialization		

DTC Inspection Priority Chart

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	 B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2196: DONGLE NG B2198: NATS ANTENNA AMP

Priority	DTC
4	 B2557: VEHICLE SPEED B2602: SHIFT P DIAG B260F: ECM CAN COMM B2614: ACC RELAY REQ F/B B2615: BLOWER RELAY CIRC B2616: IGN RELAY2 REQ F/B B2616: FUEL MIS CONFIG B261E: FUEL MIS CONFIG B27D1: ST CUT RELAY OFF STUCK FAIL B27D2: ST CUT RELAY ON STUCK FAIL C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE RR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [PRESSDATA ERR] FL C1718: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1730: FLAT TIRE FL C1731: FLAT TIRE FR C1732: FLAT TIRE RR C1733: FLAT TIRE RR C1733: FLAT TIRE RR C1734: CONTROL UNIT C1735: IGN CIRCUIT OPEN C1766: WSSP DATA FAIL FR C1766: WSSP DATA FAIL FR C1767: WSSP DATA FAIL RR C1768: WSSP DATA FAIL RR C1769: CONFIG SETTING C1770: G SENSOR FAIL FR C17771: G SENSOR FAIL FR C17772: G SENSOR FAIL RR C17773: G SENSOR FAIL RR

DTC Index

NOTE:

Details of time display

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

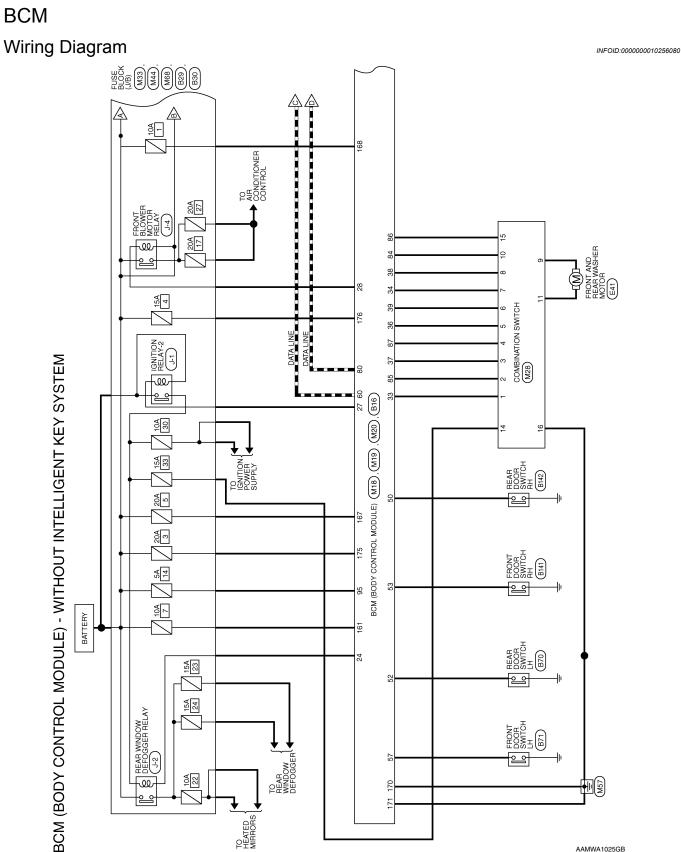
CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference page
No DTC is detected. Further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-124, "Description"
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-125, "DTC Logic"
U0415: VEHICLE SPEED SIG	_	_	_	BCS-126. "Description"
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-163, "DTC Logic"

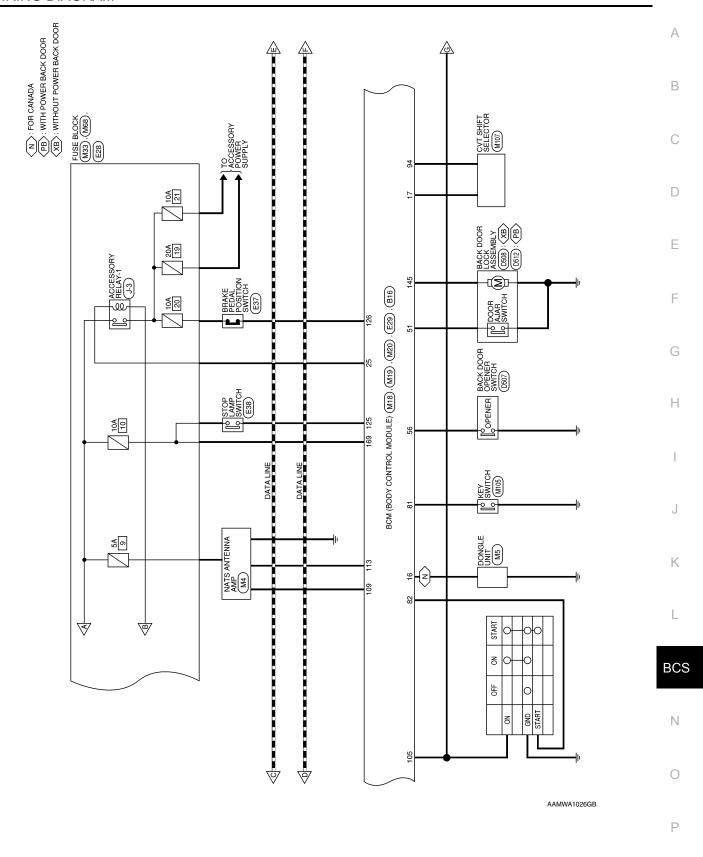
[WITHOUT INTELLIGENT KEY SYSTEM]

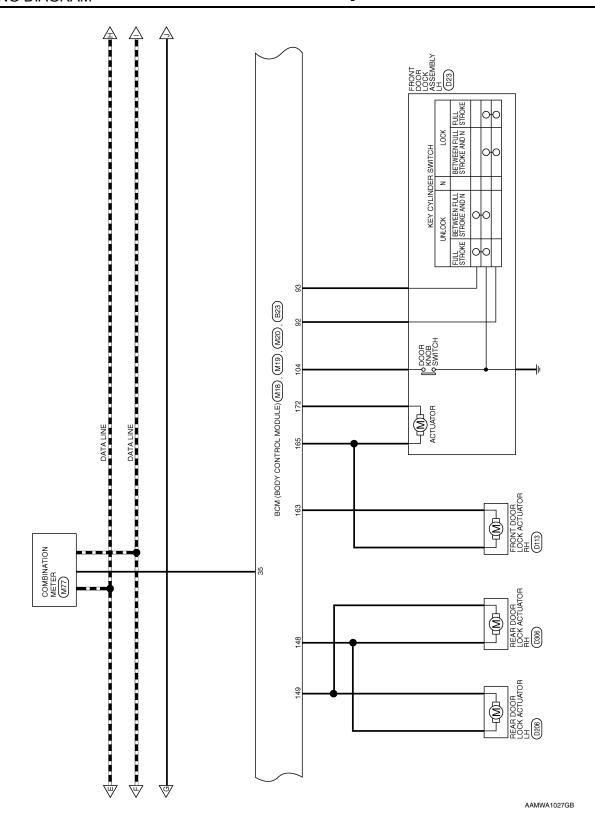
CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference page
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-164, "DTC Logic"
B2196: DONGLE NG	_	_	_	SEC-165, "Description"
B2198: NATS ANTENNA AMP.	_	_	_	SEC-167, "DTC Logic"
B2557: VEHICLE SPEED	_	×	_	SEC-170, "DTC Logic"
B2562: LOW VOLTAGE	×	_	_	BCS-127, "DTC Logic"
B2602: SHIFT P DIAG	_	×	_	SEC-171, "DTC Logic"
B260F: ECM CAN COMM	×	×	_	SEC-174, "Description"
B2614: ACC RELAY REQ F/B	_	×	_	PCS-64, "DTC Logic"
B2615: BLOWER RELAY CIRC	_	×	_	PCS-66, "DTC Logic"
B2616: IGN RELAY2 REQ F/B	_	×	_	PCS-68, "DTC Logic"
B261A: PUSH-BTN IGN SW	_	×	_	PCS-70, "DTC Logic"
B261E: FUEL MIS CONFIG	×	× (Turn ON for 15 seconds)	_	SEC-176, "Description"
B27D1: ST CUT RELAY OFF STUCK FAIL	_	_	_	SEC-178, "DTC Logic"
B27D2: ST CUT RELAY ON STUCK FAIL	_	_	_	SEC-181, "DTC Logic"
C1704: LOW PRESSURE FL	_	_	×	
C1705: LOW PRESSURE FR	_	_	×	M/T 24 "DTC Logic"
C1706: LOW PRESSURE RR	_	_	×	WT-24, "DTC Logic"
C1707: LOW PRESSURE RL	_	_	×	
C1708: [NO DATA] FL	_	_	×	
C1709: [NO DATA] FR	_	_	×	M/T 00 UDTO Leadell
C1710: [NO DATA] RR	_	_	×	WT-26, "DTC Logic"
C1711: [NO DATA] RL	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	×	VA/T OO UDTO La ciall
C1718: [PRESSDATA ERR] RR	_	_	×	WT-29, "DTC Logic"
C1719: [PRESSDATA ERR] RL	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	×	WT-31, "DTC Logic"
C1730: FLAT TIRE FL	_	_	×	
C1731: FLAT TIRE FR	_	_	×	MAT OO HOTO Leedall
C1732: FLAT TIRE RR	_	_	×	WT-32, "DTC Logic"
C1733: FLAT TIRE RL	_	_	×	
C1734: CONTROL UNIT	_	_	×	WT-34, "DTC Logic"
C1735: IGN CIRCUIT OPEN	_	_	×	WT-36, "DTC Logic"
C1765: WSSP DATA FAIL FL	_	_	×	
C1766: WSSP DATA FAIL FR	_	_	×	MIT OR HETC TO A STORY
C1767: WSSP DATA FAIL RL	_	_	×	WT-38, "DTC Description"
C1768: WSSP DATA FAIL RR	_	_	×	
C1769: CONFIG SETTING	_	_	×	WT-39, "DTC Description"
C1770: G SENSOR FAIL FL	_	_	×	
C1771: G SENSOR FAIL FR	_	_	×	
C1772: G SENSOR FAIL RR	_	_	×	WT-40, "DTC Description"
C1773: G SENSOR FAIL RL	_	_	×	

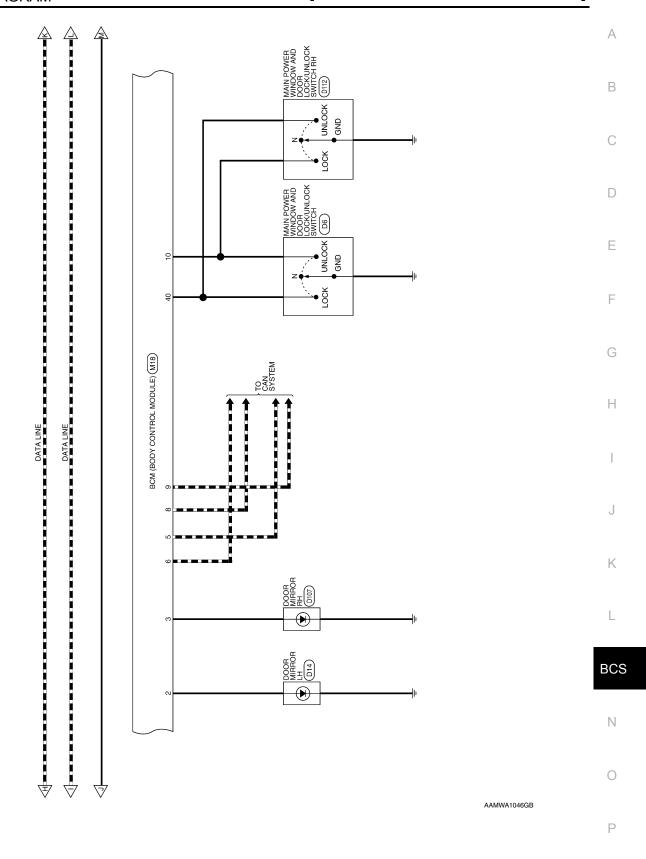
AAMWA1025GB

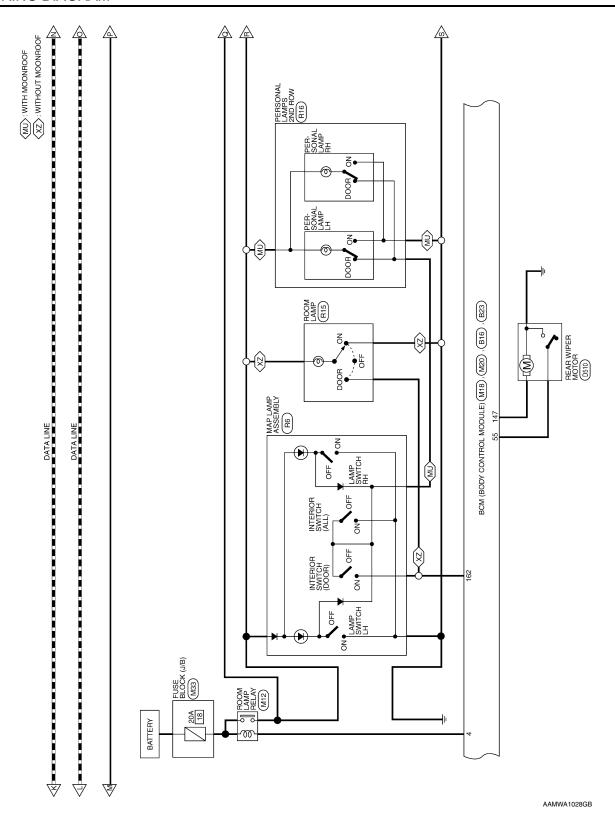
WIRING DIAGRAM

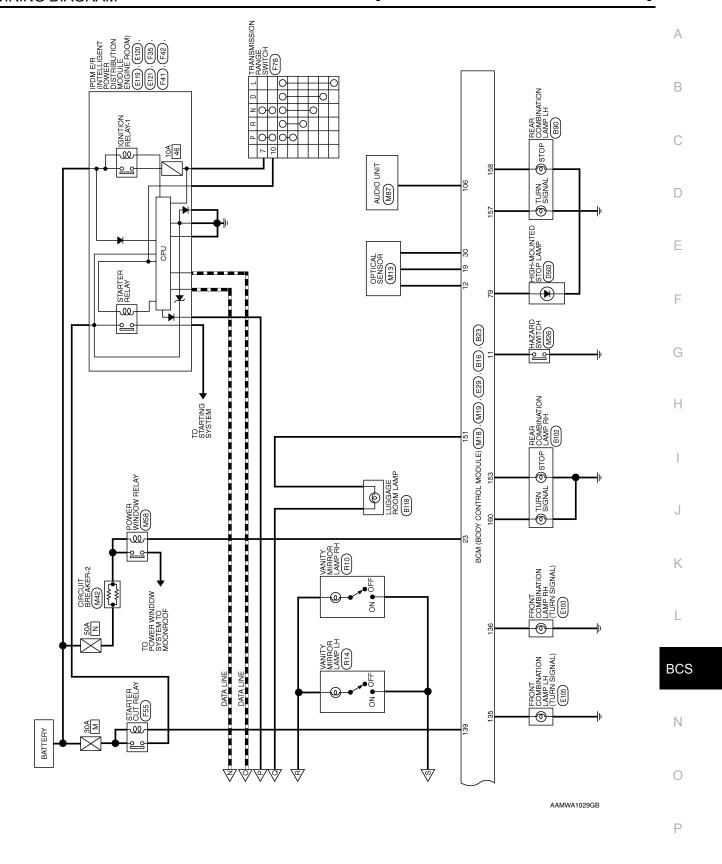








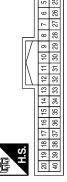




BCM (BODY CONTROL MODULE) - WITHOUT INTELLIGENT KEY SYSTEM CONNECTORS

Signal Name	1	I	ı	O WL AUTHORIZATION RL	O DEFROSTER RL D	O BAT TEMP1 RL	-	O IGN1 RL	O IGN2 RL	_	O GND AUTOLIGHT SENSOR	ı	I	I CSW 5	O CSW 5	O SECURITY LED	I CSW 3	I CSW 4	I CSW 1	I CSW 2	I DOORUNLOCK SW
Color of Wire	-	ı	ı	9	LA/R	BR	-	>	LA/W	_	^	ı	1	LG	٨	BG	G	GR	^	W	SB
Terminal No.	20	21	22	23	24	25	56	27	28	59	30	31	32	33	34	35	36	37	38	39	40

Connector No.	M18
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color GRAY	GRAY



Color of Signal Name Wire	I	LG/G O DI FR LEFT	LA/Y O DI FR RIGHT D	P O SPARE4 RL N	R CAN-L	L CAN-H	1	L CAN-H	R CAN-L	BG I DOORLOCK SW	Y I HAZARD SW D	W O PWR AUTOLIGHT SENSOR	1	1	1	P DONGLE UART	L O PWR ATDVC	1	
Terminal No.	1	2	က	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	

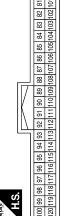
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Connector No.	M20
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BROWN	BROWN
原 H.S.	1671166 165 164

Terminal No.	Color of Wire	Signal Name
161	8	I PWR ECU
162	SB	O PWM ROOMLAMP 1
163	Γ	O AS LOCK OR UNLOCK D
164	1	I
165	^	O DR OR FR LOCK D
166	-	1
167	LA/V	I PWR DOORLOCK1
168	BG	I PWR FLASHERS
169	GR	I PWR STOP LAMP
170	В	I GND1
171	В	I GND2
172	В	O FR OR DR UNLOCK D
173	_	I
174	_	ı
175	В	I PWR DOORLOCK2
176	re	I PWR WIPER

Signal Name	1	ı	I	1	ı	I	I	ı	I DR KNOB SW	I SES DR HANDLE BUTTON SW	O AUTO ACC2	1	ı	CLK IMMOBILIZER	O MR OUTPUT	ı	-	O DATA IMMOBILIZER	-	-	-	ı	-	_	1
Color of Wire	1	ı	ı	1	1	-	1	1	æ	>	>	1	1	Ь	BG	1	1	LG	-	_	-	ı	_	_	1
erminal No.	96	97	86	66	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120

Connector No.	M19
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK



Signal Name	I KEY SW	I STARTER SW (WO IKEY)	1	O CSW 2	O CSW 1	O CSW 3	O CSW 4	ı	-	I	ı	I KEY CYLINDER LOCK SW	I KEY CYLINDER UNLOCK SW	I AT LOCKED IN PARK SW	I SHORTING PIN
Color of Wire	_	LA/R	ı	BR	SB	۵	BG	1	-	ı	ı	BR	۵	ŋ	>
Terminal No.	81	82	83	84	85	98	87	88	68	06	91	92	93	94	95

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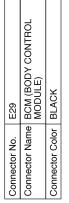
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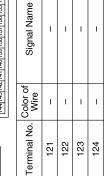
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M28

Connector No.







Connector Name		COMBINATION SWITCH
Connector Color	-	WHITE
原列 H.S.	8 7 16 15	6 5 4 3 2 1 1 10 9
Terminal No.	Color of Wire	Signal Name
-	മ	ı
2	SB	ı
3	GR	1
4	BG	1
5	മ	ı
9	8	ı
7	>	1
8	>	ı
6	G	ı
10	BR	ı
11	>	ı
12	ı	ı
13	ı	ı
14	ΓG	_
15	۵	1

I BRAKE SW2

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Connector No.	B23
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color GRAY	GRAY
H.S.	15/150/149/148 147/146/145 160/159/158/157/156/155/154/159/152

Terminal No.	Color of Wire	Signal Name
145	LA/V	O TGATE OPENER
146	_	-
147	LA/R	O RR WIPER
148	Μ	O RR UNLOCK B
149	٦	O RR LOCK B
150	ı	ı
151	ч	O PWM ROOMLAMP 5
152	ı	ı
153	LA/W	O STOP LAMP1
154	_	_
155	_	ı
156	-	ı
157	ВĐ	O DI RR LEFT B
158	LA/Y	O STOP LAMP2 NISSAN EUR

			_			_			_			_	_		_			_	_		_			
Signal Name	I DR DOOR2 SW	ı	I	CAN-H	ı	I	_	1	I	_	1	I	1	-	I	_	1	1	1	1	1	-	O STOP LAMP3	CAN-L
Color of Wire	SB	1	ı	_	1	ı	_	1	ı	-	1	ı	1	1	1	_	1	1	ı	1	1	-	LA/W	۵
Terminal No.	22	58	59	09	61	62	63	64	92	99	29	68	69	20	71	72	73	74	75	76	77	78	79	80

				-		
					41	61
			1		56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41	62
					43	63
					4	65 64 63
	O				45	65
	ΙH				46	99
	N				47	67
	$\ddot{\circ}$		_		48	89
	λ(7	49	69
	일 (교			V	50	20
	@ -	E		\	51	71
9	옷은	묾		Ц	25	72
B16	MC	GF	_		53	73
	ө	_			54	74
	шĸ	olc			55	75
ž	ž	ŏ			29	9/
tor	tor	tor			22	77
Connector No.	Connector Name BCM (BODY CONTROL MODULE)	Connector Color GREEN	(6		28	79 78 77 76 75 74 73 72 71 70 69 68 67 66
n	п	n	E S.		29	79
ပိ	ŏ	ပြ			99	88

Signal Name	-	1	ı	1	1	ı	1	1	ı	I RR DOOR SW	I TGATE SW	I RL DOOR SW	I AS DOOR2 SW	1	I RR AUTOSTOP SW	I TGATE OPENER SW
Color of Wire	ı	ı	ı	ı	ı	ı	ı	ı	ı	>	LG	œ	SB	ı	LA/G	>
Terminal No.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

BASIC INSPECTION

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description

INFOID:0000000010256081

BEFORE REPLACEMENT

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

NOTE:

If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replacing BCM.

AFTER REPLACEMENT

CAUTION:

- When replacing BCM, you must perform "After Replace ECU" with CONSULT.
- Complete the procedure of "After Replace ECU" in order.
- If you set incorrect "After Replace ECU", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- When replacing BCM, perform the system initialization (NATS).
- When replacing BCM, perform "Configuration" of CAN gateway.

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

1. SAVING VEHICLE SPECIFICATION (BCM)

CONSULT

Enter "Re/Programming, Configuration" and perform "Before Replace ECU" to save or print current vehicle specification.

NOTE:

If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replacing BCM.

>> GO TO 2.

2. SAVING VEHICLE SPECIFICATION (CAN GATEWAY)

(P)CONSULT

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>LAN-75</u>, "CONSULT Function".

NOTE:

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

>> GO TO 3.

3.REPLACE BCM

Replace BCM. Refer to BCS-135, "Removal and Installation".

>> GO TO 4.

4. WRITING VEHICLE SPECIFICATION (BCM)

(P)CONSULT

- 1. Enter "Re/Programming, Configuration".
- 2. If "Before Replace ECU" operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press "Confirm" to write vehicle specification. Refer to BCS-121, "CONFIGURATION (BCM): Work Procedure".

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

	was not performed, select "After Replace ECU" or "Manual Configu Refer to <u>BCS-121, "CONFIGURATION (BCM) : Work Procedure"</u> .	ra- A
>> GO TO 5.		D
5.INITIALIZE BCM (NATS)		В
Perform BCM initialization. (NATS)		
00 TO 0		С
>> GO TO 6. 6. WRITING VEHICLE SPECIFICATION	N (CAN GATEWAY FUNCTION)	
©CONSULT Perform "WRITE CONFIGURATION – Convenience specification. Refer to LAN-77."	Config file" or "WRITE CONFIGURATION – Manual selection" to wr Work Procedure".	
<u> </u>		Е
>> Work End. CONFIGURATION (BCM)		F
CONFIGURATION (BCM): Des	scription INFOID:000000001025	56083
Vehicle specification needs to be written Configuration has three functions as foll	with CONSULT because it is not written after replacing BCM. ows:	G
Function	Description	Н
"Before Replace ECU"	Reads the vehicle configuration of current BCM.Saves the read vehicle configuration.	_
"After Replace ECU"	Writes the vehicle configuration with manual selection.	_
"Select Saved Data List"	Writes the vehicle configuration with saved data.	
SULT. • Complete the procedure of "Select	form "Select Saved Data List" or "After Replace ECU" with CO	N- J
 Configuration is different for each v 	eata List" or "After Replace ECU", incidents might occur. Tehicle model. Confirm configuration of each vehicle model. List" or "After Replace ECU" except for new BCM.	K
CONFIGURATION (BCM): Wo	rk Procedure	i6084 L
1.WRITING MODE SELECTION		
©CONSULT Select "Reprogramming, Configuration"	of BCM.	BCS
When writing saved data>>GO TO 2. When writing manually>>GO TO 3.		N
2.PERFORM "SAVED DATA LIST"		0
©CONSULT Automatically "Operation Log Selection" applicable file from the "Save Data List"	" window will display if "Before Replace ECU" was performed. Sele and press "Confirm".	

>> Work End.

${\bf 3.}$ PERFORM "AFTER REPLACE ECU" OR "MANUAL CONFIGURATION"

CONSULT

1. Select "After Replace ECU" or "Manual Configuration".

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- 2. Identify the correct model and configuration list. Refer to <u>BCS-122, "CONFIGURATION (BCM) : Configuration List".</u>
- 3. Confirm and/or change setting value for each item.

CAUTION:

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

Select "Next".

CAUTION:

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

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

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> Work End.

CONFIGURATION (BCM): Configuration List

INFOID:0000000010256085

CAUTION:

Thoroughly read and understand the vehicle specification. Incorrect settings may result in abnormal control of ECU.

MANUAL SE	ETTING ITEM
Items	Setting value
I-KEY	WITH ⇔ WITHOUT
DTRL	WITH ⇔ WITHOUT
AUTO DOOR UNLOCK TIMING	WITH I-KEY ⇔ W/O I-KEY

 \Leftrightarrow : Items which confirm vehicle specifications

SHIPPING MODE CANCEL OPERATION

[WITHOUT INTELLIGENT KEY SYSTEM]

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< BASIC INSPECTION > SHIPPING MODE CANCEL OPERATION

Work Procedure INFOID:0000000010341545

1. SHIPPING MODE CANCEL OPERATION

- Turn ignition switch OFF.
- 2. Push in (switch on) the extended storage fuse switch. Refer to PG-73, "How To Check".
- Turn ignition switch ON.
- Turn ignition switch OFF and wait at least 2 seconds.

>> GO TO 2. D

2.SHIPPING MODE CANCEL CHECK

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

>> Work End.

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000010256088

Refer to LAN-8, "System Description".

DTC Logic

DTC DETECTION LOGIC

NOTE

U1000 can be set if a module harness was disconnected and reconnected, perhaps during a repair. Confirm that there are actual CAN diagnostic symptoms and a present DTC by performing the Self Diagnostic Result procedure.

CONSULT Display	DTC Detection Condition	Possible cause
CAN COMM CIRCUIT [U1000]	When any listed module cannot communicate with CAN communication signal continuously for 2 seconds or more with ignition switch ON.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. Transmission Receiving (ECM) Receiving (VDC/TCS/ABS) Receiving (METER/M&A) Receiving (TCM) Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:0000000010256090

1. PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 second or more.
- 2. Check "SELF- DIAG RESULTS".

Is "CAN COMM CIRCUIT" displayed?

YES >> Perform CAN Diagnosis as described in DIAGNOSIS section of CONSULT Operation Manual.

NO >> Refer to GI-41, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1010]	BCM detected internal CAN communication circuit mal- function.	BCM

Diagnosis Procedure

INFOID:0000000010256092

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to BCS-135, "Removal and Installation".

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U0415 VEHICLE SPEED SIG

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

U0415 VEHICLE SPEED SIG

Description INFOID:000000010256093

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC U0415 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-124, "DTC Logic".
- If DTC U0415 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-125, "DTC Logic".

CONSULT Display	DTC Detection Condition	Possible Cause
VEHICLE SPEED SIG [U0415]	When the vehicle speed signal received from the ABS actuator and electric unit (control unit) remains abnormal for 2 seconds or more.	ABS systemCombination meter systemCAN bus harness

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION

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

Is any DTC detected?

YES >> Refer to BCS-108, "DTC Index".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010256095

${f 1}$. ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of ABS with CONSULT. Refer to BRC-44, "CONSULT Function".

Is any DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to <u>BRC-55</u>, "<u>DTC Index</u>".

NO >> GO TO 2.

$oldsymbol{2}.$ Check abs actuator and electric unit (control unit) power supply and ground circuit

Check ABS actuator and electric unit (control unit) power and ground. Refer to <u>BRC-80</u>, "<u>Diagnosis Procedure</u>".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

$3.\,$ COMBINATION METER SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of METER M&A with CONSULT. Refer to MWI-21, "CONSULT Function (METER/M&A)".

Is any DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to MWI-30, "DTC Index".

NO >> Refer to GI-41, "Intermittent Incident".

B2562 LOW VOLTAGE

< 1	DTC	:/CIR	CUIT	DIAG	NOSIS >	

[WITHOUT INTELLIGENT KEY SYSTEM]

B2562 LOW VOLTAGE

DTC Logic

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible cause
LOW VOLTAGE [B2562]	When the power supply voltage to BCM remains less than 8.8V for 120 seconds or more.	Harness or connector (power supply circuit) Vehicle battery

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION

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

Is any DTC detected?

YES >> Refer to BCS-127, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

1. CHECK BATTERY VOLTAGE

Check battery voltage.

Is battery voltage less than 8.8V?

YES >> Charge battery and retest. Refer to CHG-14, "Work Flow (Without EXP-800 NI or GR8-1200 NI)".

NO >> GO TO 2.

2. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit. Refer to BCS-128, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. BCM SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of BCM with CONSULT. Refer to <u>BCS-92, "BCM : CONSULT Function (BCM - BCM)"</u>.

Is DTC B2562 CRNT?

YES >> Replace BCM. Refer to BCS-135, "Removal and Installation".

NO >> Refer to GI-41, "Intermittent Incident".

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000010256100

Regarding Wiring Diagram information, refer to BCS-110. "Wiring Diagram".

1. CHECK FUSE

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
161	BCM power supply	7 (10A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect BCM connector M20.
- 2. Check voltage between BCM connector M20 and ground.

В	СМ	Ground	Voltage		
Connector	Terminal	Ground	(Approx.)		
M20	161	_	Battery voltage		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

В	CM	Ground	Continuity		
Connector	Terminal	Ground	Continuity		
M20	170		Yes		
IVIZU	171	_	165		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000010256101

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Regarding Wiring Diagram information, refer to BCS-110, "Wiring Diagram".

1. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect BCM connector M18 and combination switch connector.
- Check continuity between BCM connector M18 and combination switch connector M28.

Signal	ВС	CM	Combinati	Combination switch				
Signal	Connector	nector Terminal Conne		Terminal	Continuity			
INPUT 1		38		8				
INPUT 2		39		6				
INPUT 3	M18	36	M28	5	Yes			
INPUT 4		37		3				
INPUT 5		33		1				

Is the inspection result normal?

>> GO TO 2. YFS

NO >> Repair or replace harness or connectors.

2. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check continuity between BCM connector M18 and ground.

Cianal	BCM			Continuity		
Signal	Connector	Terminal		Continuity		
INPUT 1		38				
INPUT 2	=	39	Ground			
INPUT 3	M18	36		No		
INPUT 4	-	37				
INPUT 5		33				

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK BCM OUTPUT VOLTAGE

- Connect BCM connector M18 and combination switch connector.
- Turn ignition switch ON.
- Check voltage between BCM connector M18 and ground.

Cianal	В	CM	Craund	Voltage		
Signal	Connector	Terminal	Ground	Voltage		
INPUT 1		38				
INPUT 2		39				
INPUT 3	M18	36	_	Refer to <u>BCS-96, "Ref-</u> <u>erence Value"</u> .		
INPUT 4		37		<u> </u>		
INPUT 5		33				

BCS-129 Revision: November 2013 2014 Rogue NAM **BCS**

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> Replace the combination switch. Refer to <u>BCS-136</u>, "Removal and Installation".

NO >> Replace BCM. Refer to <u>BCS-135</u>, "Removal and Installation".

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000010256102

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Regarding Wiring Diagram information, refer to BCS-110, "Wiring Diagram".

1. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect BCM connector M19 and combination switch connector.
- Check continuity between BCM connector M19 and combination switch connector M28.

Signal	BCN	M	Combinati	Continuity	
Signal	Connector	Terminal	Connector	Terminal	Continuity
OUTPUT 1		85		2	
OUTPUT 2		84		10	
OUTPUT 3	M19	86	M28	15	Yes
OUTPUT 4		87		4	
OUTPUT 5		34		7	

Is the inspection result normal?

>> GO TO 2. YFS

NO >> Repair or replace harness or connectors.

$oldsymbol{2}$. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check continuity between BCM connector M19 and ground.

Cianal	В	CM		Continuity	
Signal	Connector	Terminal		Continuity	
OUTPUT 1		85			
OUTPUT 2		84	Ground		
OUTPUT 3	M19	86		No	
OUTPUT 4		87			
OUTPUT 5		34			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

$3.\,$ CHECK BCM INPUT VOLTAGE

- Connect BCM connector M19 and combination switch connector.
- Turn ignition switch ON.
- Check voltage between BCM connector M19 and ground.

Cianal	В	CM	Ground	Voltage		
Signal	Connector	Terminal	Ground	Voltage		
OUTPUT 1		85				
OUTPUT 2		84				
OUTPUT 3	M19	86		Refer to <u>BCS-96, "Ref-</u> <u>erence Value"</u> .		
OUTPUT 4		87		<u>oronico valdo</u> .		
OUTPUT 5		34				

BCS-131 Revision: November 2013 2014 Rogue NAM **BCS**

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-135, "Removal and Installation".

NO >> Replace the combination switch. Refer to <u>BCS-136</u>, "Removal and Installation".

COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table

- 1. Perform the data monitor of CONSULT to check for any malfunctioning item.
- 2. Check the malfunction combinations.

Malfuncti	on item::	×
vialiulicu	UII ILGIII. <i>-</i>	^

Α

В

D

Е

F

Н

K

BCS

Ν

Р

							Data	monito	r item						
Malfunction combination	FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	INT VOLUME	RR WIPER ON	RR WIPER INT	RR WASHER SW	TURN SIGNAL R	TURN SIGNAL L	TAIL LAMP SW	HI BEAM SW	HEAD LAMP SW	LIGHT OFF SW	PASSING SW
Α												×			×
В					×						×		×		
С			×					×	×	×					
D	×	×		×										×	
Е					×	×	×								
F		×	×		×										
G	×				×			×				×			
Н				×			×						×		×
1						×				×					
J									×		×			×	
K		All Items													
L		If only one item is detected or the item is not applicable to the combinations 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	
В	Combination switch INPUT 2 circuit	
С	Combination switch INPUT 3 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-129, "Diagnosis Procedure".
D	Combination switch INPUT 4 circuit	para rollo to <u>555 720, Bragnesie riessaare</u> .
E	Combination switch INPUT 5 circuit	
F	Combination switch OUTPUT 1 circuit	
G	Combination switch OUTPUT 2 circuit	
Н	Combination switch OUTPUT 3 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to <u>BCS-131</u> , " <u>Diagnosis Procedure</u> ".
1	Combination switch OUTPUT 4 circuit	mig part rector to <u>200 rem Blagmone resource</u> .
J	Combination switch OUTPUT 5 circuit	
K	BCM	Replace BCM. Refer to BCS-135, "Removal and Installation".
L	Combination switch	Replace the combination switch. Refer to BCS-136, "Removal and Installation".

Revision: November 2013 BCS-133 2014 Rogue NAM

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

NORMAL OPERATING CONDITION

Description INFOID:000000010337003

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-123</u>. "Work <u>Procedure"</u>.

NOTE:

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

BCM (BODY CONTROL MODULE)

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

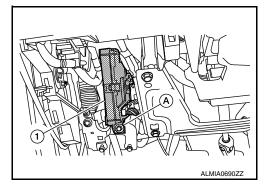
Removal and Installation

CAUTION:

Before replacing the BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>BCS-120</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)</u>: <u>Work Procedure</u>".

REMOVAL

- 1. Disconnect the negative battery terminal. Refer to PG-77, "Removal and Installation".
- 2. Remove the instrument lower panel LH. Refer to IP-22, "Removal and Installation".
- 3. Remove the bolt (A), then pull out the BCM (1).



4. Disconnect the harness connectors from the BCM and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When replacing BCM, perform "WRITE CONFIGURATION" Refer to <u>BCS-121</u>, "CONFIGURATION (BCM): Work Procedure".
- When replacing BCM, perform the system initialization (NATS). Refer to the CONSULT immobilizer mode and follow the on-screen instructions.
- When replacing BCM, if new BCM does not come with keyfobs attached, all existing keyfobs must be re-registered. Refer to the CONSULT immobilizer mode and follow the on screen instructions.

BCS

L

Α

В

D

Е

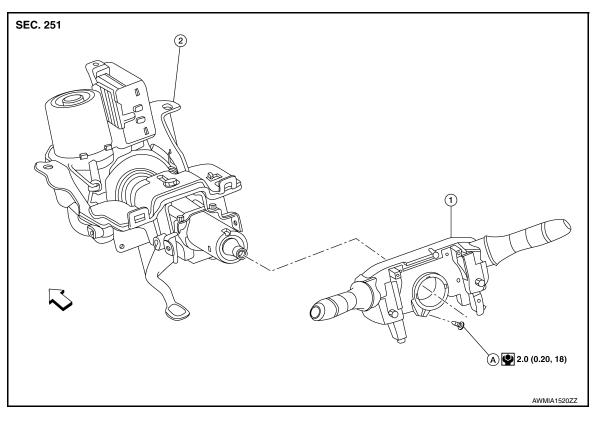
Н

INFOID:0000000010256104

Ν

COMBINATION SWITCH

Exploded View



1. Combination switch

2. Steering column

A. Screw

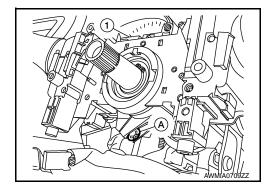
← Front

Removal and Installation

INFOID:000000010256106

REMOVAL

- 1. Remove the steering angle sensor. Refer to BRC-139, "Removal and Installation".
- 2. Disconnect harness connector from combination switch.
- 3. Remove screw (A) and combination switch (1).



INSTALLATION

Installation is in the reverse order of removal.