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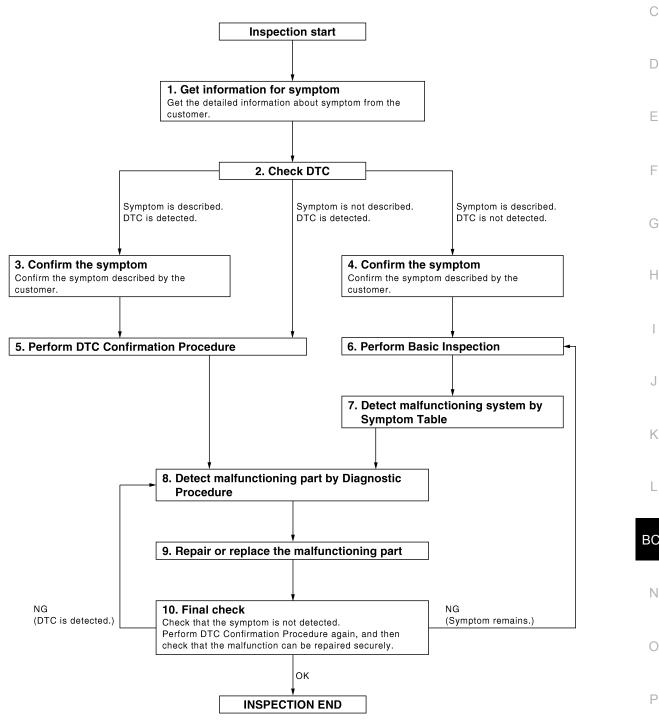
[BCM] < BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow INFOID:0000000009467024 В

OVERALL SEQUENCE



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< BASIC INSPECTION > [BCM]

1. GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2

2. CHECK DTC

- 1. Check DTC.
- 2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data.
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3

Symptom is described, DTC is not displayed>>GO TO 4

Symptom is not described, DTC is displayed>>GO TO 5

3. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6

PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.

At this time, always connect CONSULT to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to <u>BCS-63, "DTC Inspection Priority Chart"</u> and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This
 simplified check procedure is an effective alternative though DTC cannot be detected during this check.
 If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

YES >> GO TO 8

NO >> Refer to BCS-64, "DTC Index".

6. PERFORM BASIC INSPECTION

Perform BCS-3, "Work Flow".

Inspection End>>GO TO 7

7 . DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to <u>BCS-8</u>. "System Description" based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 8

[BCM] < BASIC INSPECTION > 8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE Inspect according to Diagnostic Procedure of the system. NOTE: The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also В required for the circuit check in the Diagnostic Procedure. Is malfunctioning part detected? YES >> GO TO 9 NO >> Check voltage of related BCM terminals using CONSULT. $9.\,$ REPAIR OR REPLACE THE MALFUNCTIONING PART Repair or replace the malfunctioning part. D Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replace-2. ment. Check DTC. If DTC is displayed, erase it. Е >> GO TO 10 10. FINAL CHECK When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely. When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected. Does the symptom reappear? Н YES (DTC is detected)>>GO TO 8 YES (Symptom remains)>>GO TO 6 >> Inspection End. ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description 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: BCS** 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. Ν When replacing BCM, perform the system initialization (NATS). ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Work Procedure INFOID:0000000009467026 1. SAVING VEHICLE SPECIFICATION (P)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.

BCS-5 Revision: August 2013 2014 Maxima NAM

< BASIC INSPECTION > [BCM]

>> GO TO 2.

2.REPLACE BCM

Replace BCM. Refer to BCS-79, "Removal and Installation".

>> GO TO 3.

3.writing vehicle specification

(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-6, "CONFIGURATION (BCM): Work Procedure".
- 3. If "Before Replace ECU" operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to BCS-6, "CONFIGURATION (BCM): Work Procedure".

>> GO TO 4.

4. INITIALIZE BCM (NATS)

Perform BCM initialization. (NATS)

>> Work End.

CONFIGURATION (BCM)

CONFIGURATION (BCM): Description

INFOID:0000000009467027

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

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.

CAUTION:

- When replacing BCM, you must perform "Select Saved Data List" or "After Replace ECU" with CON-SULT.
- Complete the procedure of "Select Saved Data List" or "After Replace ECU" in order.
- If you set incorrect "Select Saved Data List" or "After Replace ECU", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- Never perform "Select Saved Data List" or "After Replace ECU" except for new BCM.

CONFIGURATION (BCM): Work Procedure

INFOID:0000000009467028

1. WRITING MODE SELECTION

(P)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" window will display if "Before Replace ECU" was performed. Select applicable file from the "Save Data List" and press "Confirm".

< BASIC INSPECTION > [BCM]

>> Work End.

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

(P)CONSULT

- 1. Select "After Replace ECU" or "Manual Configuration".
- 2. Identify the correct model and configuration list. Refer to <u>BCS-7</u>, "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.

4. 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 can not 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:0000000009467029

MANUAL SETTING ITEM		
Items	Setting value	
AUTO LIGHT	WITH⇔WITHOUT	
DTRL	WITH⇔WITHOUT	
AV C/U	WITH⇔WITHOUT	

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Revision: August 2013 BCS-7 2014 Maxima NAM

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SYSTEM DESCRIPTION

BODY CONTROL SYSTEM

System Description

INFOID:0000000009467030

OUTLINE

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

CAN communication control

In CAN communication, control units are connected with 2 communication lines (CAN-L, CAN-H) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives the data but selectively reads required information only.

CAN communication signal

Refer to the LAN-24, "CAN Communication Signal Chart".

BCM control function list

System	Refer to	
Combination switch reading system	BCS-10. "System Description"	
Signal buffer system	BCS-14, "System Description"	
Power consumption control system	BCS-15, "System Description"	
Auto light system	EXL-13, "System Description"	
Turn signal and hazard warning lamp system	EXL-17, "System Description"	
Headlamp system (xenon type)	EXL-9, "System Description"	
Headlamp system (halogen type)	EXL-174, "System Description"	
Front fog lamp system (if equipped)	EXL-15, "System Description"	
Exterior lamp battery saver system	EXL-19, "System Description"	
Daytime running light system (Canada only)	EXL-11, "System Description"	
Interior room lamp control system	INL-6, "System Description"	
Step lamp system	INL-6, System Description	
Interior room lamp battery saver system	INL-6, "System Description"	
Front wiper and washer system	WW-6, "System Description"	
Warning chime system	WCS-5. "WARNING CHIME SYSTEM : System Description"	
Door lock system	DLK-17, "DOOR LOCK AND UNLOCK SWITCH : System Description"	
Trunk open system	DLK-30, "TRUNK LID OPENER SWITCH : System Description"	
Automatic drive positioner system (if equipped)	ADP-10, "AUTOMATIC DRIVE POSITIONER SYSTEM : System Description"	
Nissan vehicle immobilizer system	SEC-15. "System Description"	
Vehicle security system	SEC 10 "System Description"	
Panic alarm	SEC-19. "System Description"	
Rear window defogger system	DEF-6, "System Description"	

BODY CONTROL SYSTEM

< SYSTEM DESCRIPTION >

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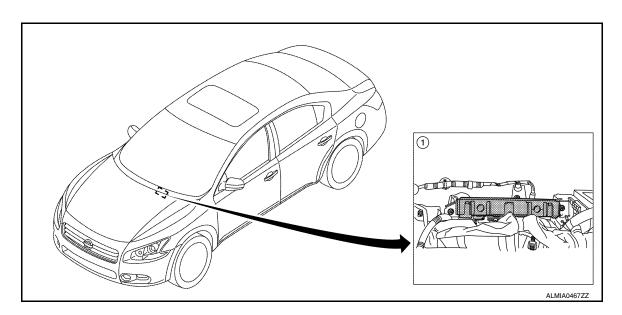
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System		Refer to	
	Door lock function	DLK-19, "DOOR REQUEST SWITCH: System Description" (door request switch) DLK-24, "INTELLIGENT KEY: System Description" (Intelligent Key)	
Intelligent Key system/engine start system	Trunk open function	DLK-32, "TRUNK REQUEST SWITCH: System Description" (trunk request switch) DLK-37, "INTELLIGENT KEY: System Description" (Intelligent Key)	
	Warning function	DLK-42, "System Description"	
	Key reminder function	DLK-49, "System Description"	
	Engine start function	SEC-10. "System Description"	
Power window system		PWC-9, "System Description"	
RAP (retained accessory power) system		BCS-30, "RETAINED PWR : CONSULT Function (BCM - RE-TAINED PWR)"	
TPMS (tire pressure monitor system)		WT-8, "System Description"	

Component Parts Location

INFOID:0000000009467031



 BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)

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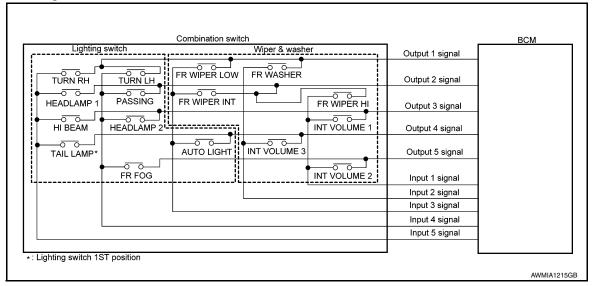
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COMBINATION SWITCH READING SYSTEM

System Diagram

INFOID:0000000009467032



System Description

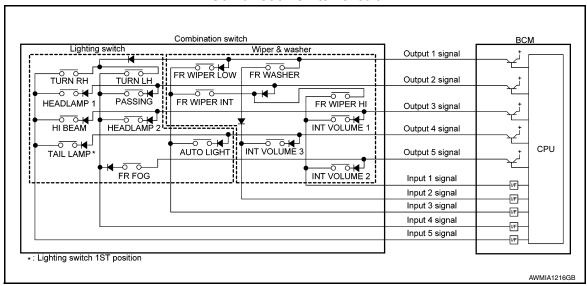
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OUTLINE

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

COMBINATION SWITCH MATRIX

Combination switch circuit



Combination switch INPUT-OUTPUT system list

System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
OUTPUT 1	_	FR WASHER	FR WIPER LOW	TURN LH	TURN RH
OUTPUT 2	FR WIPER HI	_	FR WIPER INT	PASSING	HEADLAMP 1
OUTPUT 3	INT VOLUME 1	_	_	HEADLAMP 2	HI BEAM

COMBINATION SWITCH READING SYSTEM

< SYSTEM DESCRIPTION >

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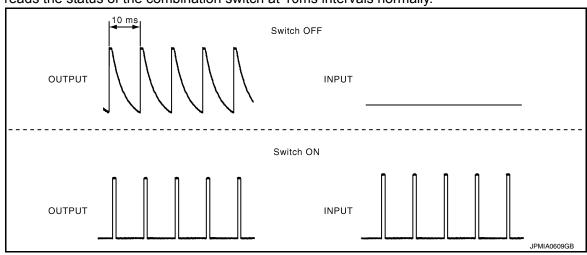
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System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
OUTPUT 4	_	INT VOLUME 3	AUTO LIGHT	_	TAIL LAMP
OUTPUT 5	INT VOLUME 2	_	_	FR FOG	_

COMBINATION SWITCH READING FUNCTION

Description

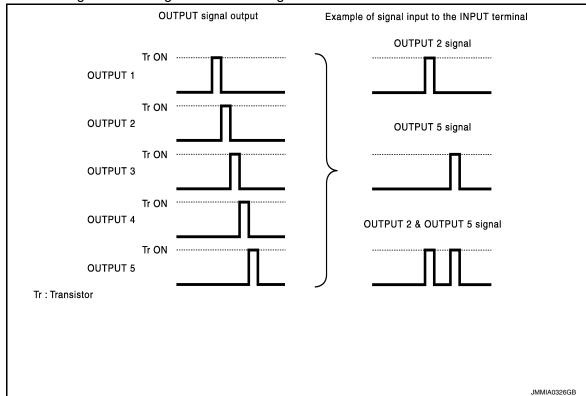
· BCM reads the status of the combination switch at 10ms intervals normally.



NOTE:

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

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



Operation Example

COMBINATION SWITCH READING SYSTEM

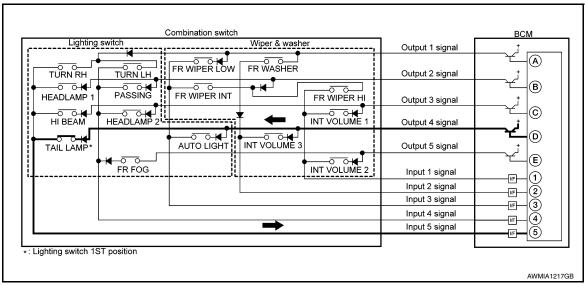
< SYSTEM DESCRIPTION >

PTION > [BCM]

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

Example 1: When a switch (TAIL LAMP) is turned ON

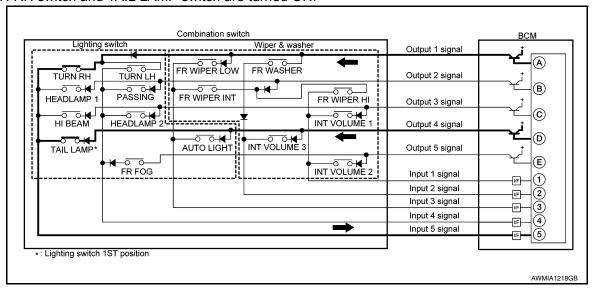
The circuit between OUTPUT 4 and INPUT 5 is formed when the TAIL LAMP is turned ON.



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

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

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



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

WIPER INTERMITTENT DIAL POSITION SETTING (FRONT WIPER INTERMITTENT OPERATION) BCM judges the wiper intermittent dial 1 - 7 by the status of INT VOLUME 1, 2, and 3 switches.

COMBINATION SWITCH READING SYSTEM

< SYSTEM DESCRIPTION >

[BCM]

Wiper intermittent dial posi-	Intermittent oper-	INT VOLUME switch ON/OFF status		
tion	ation delay inter-	INT VOLUME 1 switch	INT VOLUME 2 switch	INT VOLUME 3 switch
1		ON	ON	ON
2	Short ↑	ON	ON	OFF
3		ON	OFF	OFF
4		OFF	OFF	OFF
5		OFF	OFF	ON
6	↓ Long	OFF	ON	ON
7	_==g	OFF	ON	OFF

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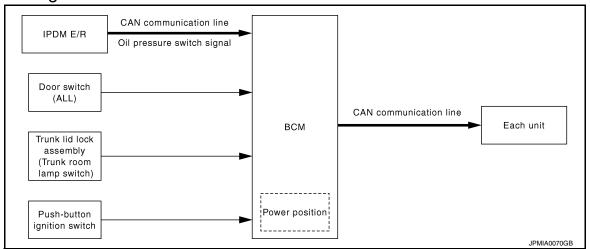
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SIGNAL BUFFER SYSTEM

System Diagram

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[BCM]



System Description

INFOID:0000000009467035

OUTLINE

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

Signal name	Input	Output	Description
 Ignition switch ON signal Ignition switch signal	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.
Trunk switch signal	Trunk room lamp switch	Combination meter (CAN)	Inputs the trunk room lamp switch signal and transmits the trunk switch signal via CAN communication.
Oil pressure switch signal	IPDM E/R (CAN)	Combination meter (CAN)	Transmits the received oil pressure switch signal via CAN communication.

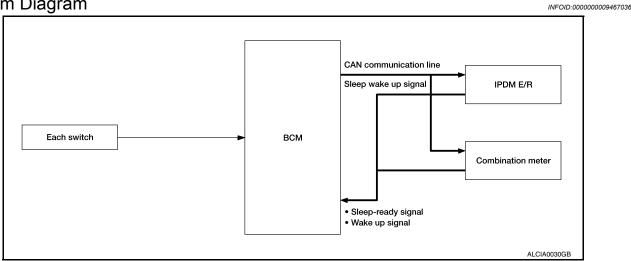
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POWER CONSUMPTION CONTROL SYSTEM

System Diagram



System Description

INFOID:0000000009467037

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 the each switches changes from 10 ms interval to 60 ms interval.

Sleep mode activation

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

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POWER CONSUMPTION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

[BCM]

eep 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 Trunk room lamp switch status: No change Brake switch: OFF Key slot status: No change 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 Power window switch communication: No transmission Push-button ignition switch (push switch) illumination: OFF NATS: No operation Remote keyless entry receiver communication status: No communication Tire pressure monitor system: Stop 		

Wake-up operation

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

Wake-up condition

BCM wake-up condition	CAN wake-up condition
 Door unlock sensor: OFF→ON, ON→OFF Front door lock assembly LH (key cylinder switch): Lock or unlock Door lock switch: OFF→ON Door unlock switch: OFF→ON Trunk lid opener switch: OFF→ON Power window serial link communication: Receiving Remote keyless entry receiver: Receiving valid keyfob 	 Receiving the sleep-ready signal (Not-ready) from any units Key slot: OFF→ON, ON→OFF Push-button ignition switch (push switch): OFF→ON Hazard switch: OFF→ON PASSING switch: OFF→ON, ON→OFF TAIL LAMP switch: OFF→ON Driver door switch: OFF→ON, ON→OFF Passenger door switch: OFF → ON, ON → OFF Trunk room lamp switch: OFF→ON, ON→OFF Driver door request switch: OFF→ON Passenger door request switch: OFF→ON Trunk opener request switch: OFF→ON Stop lamp switch 2 signal: ON Remote keyless entry receiver: Receiving valid keyfob

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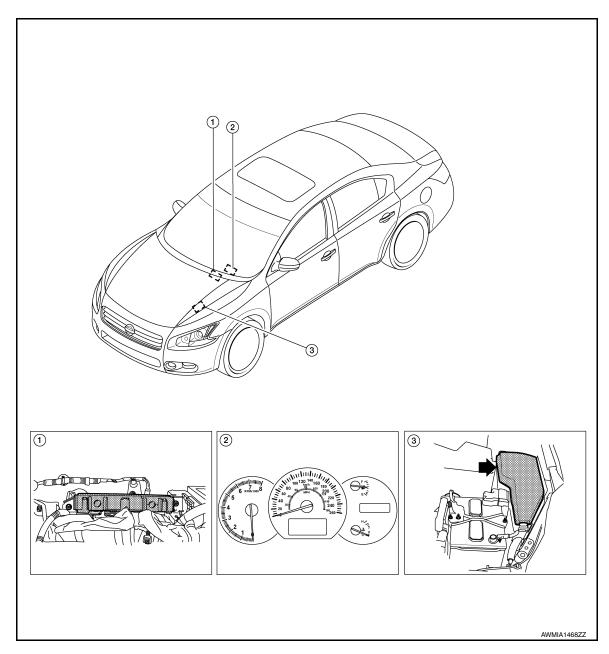
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Component Parts Location

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- BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- Combination meter M24
- 3. IPDM E/R E16, E17, E18, E200, E201, F10

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DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000009467039

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	Displays the diagnosis results judged by BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work support	Changes the setting for each system function.
Configuration	 Enables to read and save the vehicle specification. Enables to write the vehicle specification when replacing BCM.
CAN Diag Support Mntr	Monitors the reception status of CAN communication viewed from BCM.

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			×	×	×		
Trunk open	TRUNK			×	×			
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×	×			
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

DOOR LOCK

< SYSTEM DESCRIPTION >

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000009467040

[BCM]

SELF DIAGNOSTIC RESULT

Refer to BCS-64, "DTC Index".

Monitor Item [Unit]

DATA MONITOR

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Bessirption	Description		C

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 trunk opener request switch DOOR SW-DR [On/Off] Indicates condition of front door switch LH
REQ SW-BD/TR [On/Off] Indicates condition of trunk opener request switch
DOOD SW/DD (Or/Off) Indicates condition of front door switch LH
BOOK 3W-DK [OII/OII] Indicates condition of front door switch En
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 trunk 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 [OTR ULK/AS UNLK/DR UNLK/ALL UNLK/ALL LCK].	

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
ALITOMATIC DOOD LOOK OF FOT	P RANGE	Doors lock automatically when shifted out of park (P)
AUTOMATIC DOOR LOCK SELECT	VH SPD*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph)
AUTOMATIC DOOR UNLOCK SELECT	MODE4	Drivers door unlocks automatically when shifted into park (P)
	MODE3	Drivers door unlocks automatically when ignition is switched from ON to OFF
	MODE2	Doors unlock automatically when shifted into park (P)
	MODE1*	Doors unlock automatically when ignition is switched from ON to OFF
	Lock/Unlock*	Automatic door locks function operates in lock and unlock
AUTOMATIC LOCK/UNLOCK	Lock Only	Automatic door locks function operates in lock only
SELECT	Unlock Only	Automatic door locks function operates in unlock only
	Off	Automatic door locks function OFF

^{*:} Initial setting

REAR DEFOGGER

REAR DEFOGGER: CONSULT Function (BCM - REAR DEFOGGER)

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DATA MONITOR

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< SYSTEM DESCRIPTION >

[BCM]

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].

BUZZER

BUZZER: CONSULT Function (BCM - BUZZER)

INFOID:0000000009467042

DATA MONITOR

Monitor Item [Unit]	Description
PUSH -SW [On/Off]	Indicates condition of push button ignition switch
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line
KEY SW -SLOT [On/Off]	Indicates condition of key slot
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

ACTIVE TEST

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

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000009467043

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
ACC RLY -F/B [ON/OFF]	Indicates condition of accessory relay
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor
KEY SW -SLOT [On/Off]	Indicates condition of key slot
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 trunk switch
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch

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Monitor Item [Unit]	Description
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
TRNK/HAT MNTR [ON/OFF]	Indicates condition of trunk room lamp 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
INT LAMP	This test is able to check interior room lamp operation [On/Off].
STEP LAMP TEST	This test is able to check step lamp operation [On/Off].
LUGGAGE LAMP TEST	This test is able to check trunk room lamp operation [On/Off].

WORK SUPPORT

Support Item	Sett	ting	Description
SET I/L D-UNLCK INTCON	On*		Interior room lamp timer function ON
SET I/L D-UNLCK INTCOM	Off		Interior room lamp timer function OFF
	MODE 4	30 sec.	
ROOM LAMP TIMER SET	MODE 3*	15 sec.	Sets the interior room lamp ON time. (Timer operating time)
	MODE 2	7.5 sec.	
ROOM LAMP ON TIME SET	MODE 5	0 sec.	
	MODE 4	3 sec.	
	MODE 3	2 sec.	Sets the interior room lamp gradual brightening time.
	MODE 2*	1 sec.	
	MODE 1	0.5 sec.	
ROOM LAMP OFF TIME SET	MODE 5	0 sec.	
	MODE 4*	3 sec.	
	MODE 3	2 sec.	Sets the interior room lamp gradual dimming time.
	MODE 2	1 sec.	
	MODE 1	0.5 sec.	
D LAMB TIMED LOGIC CET	MODE 2	<u> </u>	Interior room lamp timer activates with all doors.
R LAMP TIMER LOGIC SET	MODE 1*		Interior room lamp timer activates with the driver door only.

^{* :} Initial setting

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEAD LAMP)

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push button ignition switch
ENGINE STATE [Stop/Stall/Crank/Run]	Indicates engine status received from ECM on CAN communication line
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line
KEY SW -SLOT [On/Off]	Indicates condition of key slot

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Monitor Item [Unit]	Description
TURN SIGNAL R [On/Off]	
TURN SIGNAL L [On/Off]	
TAIL LAMP SW [On/Off]	
HI BEAM SW [On/Off]	
HEAD LAMP SW 1 [On/Off]	Indicates condition of combination switch
HEAD LAMP SW 2 [On/Off]	
PASSING SW [On/Off]	
AUTO LIGHT SW [On/Off]	
FR FOG 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 trunk switch
OPTICAL SENSOR [V]	Indicates voltage signal from optical sensor

ACTIVE TEST

Test Item	Description
TAIL LAMP	This test is able to check tail lamp operation [On/Off].
HEAD LAMP	This test is able to check head lamp operation [Hi/Low/Off].
FR FOG LAMP	This test is able to check front fog lamp operation [On/Off].
DAYTIME RUNNING LIGHT	This test is able to check daytime running light operation [LH/RH/Off].
ILL DIM SIGNAL	This test is able to check head lamp illumination dimming operation [On/Off].

WORK SUPPORT

Support Item	Setting		Description
	MODE 4		Less sensitive setting than normal setting (Turns ON later than normal operation.)
CUSTOM A/LIGHT SETTING	MODE 3		More sensitive setting than MODE 2 (Turns ON earlier than MODE 2.)
	MODE 2		More sensitive setting than normal setting (Turns ON earlier than normal operation.)
	MODE 1*		Normal
BATTERY SAVER SET	On*		Exterior lamp battery saver function ON
BATTERT SAVER SET	Off		Exterior lamp battery saver function OFF
	MODE 8	8 180 sec.	
	MODE 7	150 sec.	
	MODE 6 120 sec.	120 sec.	
ILL DELAY SET	MODE 4	60 sec.	Sets delay timer function operation time
ILL DELAT SET	MODE 5	90 sec.	(All doors closed)
	MODE 3	30 sec.	
	MODE 2	OFF	
	MODE 1*	45 sec.	

^{* :} Initial setting

WIPER

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WIPER: CONSULT Function (BCM - WIPER)

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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 condition of wiper operation of combination switch	
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	
INT VOLUME [1 – 7]	Indicates condition of intermittent wiper operation of combination switch	

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting	Description
WIPER SPEED SETTING	On	Front wiper intermittent time linked with vehicle speed and wiper dial position
WII EN SI EED SETTING	Off*	Front wiper intermittent time linked with wiper dial position

^{*:} Initial setting

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

INFOID:0000000009467046

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]		
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 unock 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].

WORK SUPPORT

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Support Item	Setting	Description
HAZARD ANSWER BACK	Lock/Unlock*	Hazard warning lamp activation when doors are locked or unlocked with the Intelligent Key.
	Unlock Only	Hazard warning lamp activation when doors are unlocked with the Intelligent Key.
	Lock Only	Hazard warning lamp activation when doors are locked with the Intelligent Key.
	Off	No hazard warning lamp activation when doors are locked or unlocked with the Intelligent Key.

^{*:} Initial setting

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000009467047

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 trunk opener request switch
PUSH SW [On/Off]		Indicates condition of push button ignition switch
IGN RLY2 -F/B [On/Off]		Indicates condition of ignition relay 2
ACC RLY -F/B [On/Off]		Indicates condition of accessory relay
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch
BRAKE SW 2 [On/Off]		Indicates condition of brake switch
DETE/CANCL SW [On/Off]	×	Indicates condition of P position
SFT PN/N SW [On/Off]	×	Indicates condition of P or N position
UNLK SEN -DR [On/Off]	×	Indicates condition of door unlock sensor
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
DETE SW -IPDM [On/Off]		Indicates condition of detent switch received from TCM on CAN communication line
SFT PN -IPDM [On/Off]		Indicates condition of P or N position from TCM on CAN communication line
SFT P -MET [On/Off]		Indicates condition of P position from TCM on CAN communication line
SFT N -MET [On/Off]		Indicates condition of N position 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
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
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.
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.
KEY SW -SLOT [On/Off]		Indicates condition of key slot.
TRNK/HAT MNTR [On/Off]		Indicates condition of trunk lid.

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Monitor Item [Unit]	Main	Description
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-TR/BD [On/Off]		Indicates condition of trunk open signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-P/W OPEN [On/Off]		Indicates condition of power window down signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal 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.
REVERSE SW [On/Off]		Indicates condition of reverse switch status.

Test Item	Description
BATTERY SAVER	This test is able to check battery saver operation [On/Off].
PW REMOTO DOWN SET	This test is able to check power window down operation [On/Off].
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation [Off/On].
INSIDE BUZZER	This test is able to check combination meter warning chime operation [Key/Knob/Take Out/Off].
INDICATOR	This test is able to check combination meter warning lamp operation [KEY IND/KEY ON/Off].
INT LAMP	This test is able to check interior room lamp operation [On/Off].
LCD	This test is able to check combination meter display information [Off/LK WN/OUTKEY/NO KY/BATT/INSRT/SFT P/ROTAT/ID NG/BP I/BP N].
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation [Open].
FLASHER	This test is able to check hazard lamp operation [Off/LH/RH].
HORN	This test is able to check horn operation [On].
P RANGE	This test is able to check CVT shift selector illumination operation [On/Off].
ENGINE SW ILLUMI	This test is able to check push button ignition switch illumination operation [On/Off].
LOCK INDICATOR	This test is able to check LOCK indicator in push button ignition switch operation [On/Off].
ACC INDICATOR	This test is able to check ACC indicator in push button ignition switch operation [On/Off].
IGNITION ON IND	This test is able to check ignition ON indicator in push button ignition switch operation [On/Off].
KEY SLOT ILLUMI	This test is able to check key slot illumination operation [On/Off].
TRUNK/BACK DOOR	This test is able to check trunk lid opener actuator operation [Open].

WORK SUPPORT

Support Item	Setting		Description
CONFIRM KEY FOB ID	MEMORY 1		Intelligent Key ID code can be checked.
	MEMORY 2		
	MEMORY 3		
	MEMORY 4		
	NON REGIST		
	MODE 4	2 min	
AUTO LOCK SET	MODE 3	30 sec	Auto door lock time can be set in this mode.
	MODE 2	5 min	Auto door lock time can be set in this mode.
	MODE 1*	1 min	

Support Item	Setting		Description
LOCK/UNLOCK BY I-KEY			Door lock/unlock function from Intelligent Key ON.
LOCK/UNLOCK BY I-KEY	Off		Door lock/unlock function from Intelligent Key OFF.
ENGINE START BY I-KEY	On*		Engine start function from Intelligent Key ON.
ENGINE START BY I-RET	Off		Engine start function from Intelligent Key OFF.
TRUNK/GLASS HATCH OPEN	On*		Buzzer reminder function by trunk opener request switch ON.
TRUNNGLASS HATCH OFEN	Off		Buzzer reminder function by trunk opener request switch OFF.
	MODE 3	1.5 sec	
PANIC ALARM SET	MODE 2	OFF	Panic alarm button set time on Intelligent Key can be set in this mode.
	MODE 1*	0.5 sec	
	MODE 3	5 sec	I late also ottore and a time and late III and
PW DOWN SET	MODE 2	OFF	Unlock button press time on Intelligent Key to lower front window can be set in this mode.
	MODE 1*	3 sec	
	MODE 3	1.5 sec	Twoles where processing times on Intelligent May by they can be calculated
TRUNK OPEN DELAY	MODE 2	OFF	Trunk button pressing time on Intelligent Key button can be selected from the following with this mode.
	MODE 1*	0.5 sec	-
LO- BATT OF KEY FOB WARN	On*		Intelligent Key low battery warning mode ON.
	Off		Intelligent Key low battery warning mode OFF.
ANTI KEY LOCK IN FUNCTI	On*		Key reminder function mode ON.
	Off		Key reminder function mode OFF.
	Lock/Unlock*		Hazard warning lamp activation when doors are locked or unlocked with Intelligent Key.
HAZARD ANSWER BACK	Unlock Only		Hazard warning lamp activation when doors are unlocked with Intelligent Key.
HAZAKO ANOWEK DACK	Lock Only		Hazard warning lamp activation when doors are locked with Intelligent Key.
	Off		No hazard warning lamp activation when doors are locked or unlocked with Intelligent Key.
	Horn Chirp)	Horn chirp reminder when doors are unlocked with Intelligent Key
ANS BACK I-KEY LOCK	Buzzer*		Buzzer or horn chirp reminder when doors are unlocked with Intelligent Key
	Off		No buzzer or horn chirp reminder when doors are unlocked with Intelligent Key
ANO DACKLIKEVIJNI OCK	Off		No buzzer or horn chirp reminder when doors are unlocked with Intelligent Key
ANS BACK I-KEY UNLOCK	On*		Buzzer or horn chirp reminder when doors are unlocked with Intelligent Key
SHORT CRANKING OUTPUT	70 msec		
	Start	100 msec	Starter motor operation duration times.
		200 msec	
	End		
INSIDE ANT DIAGNOSIS	Start		This function allows inside key antenna self-diagnosis.
HORN WITH KEYLESS LOCK	Off		No horn reminder activation when doors are locked with Intelligent Key.
HOM WITH INCIDENCE	On*		Horn reminder activation when doors are locked with Intelligent Key.

^{*:} Initial Setting

COMB SW

< SYSTEM DESCRIPTION > [BCM]

COMB SW: CONSULT Function (BCM-COMB SW)

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DATA MONITOR

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]	
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
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 1 [On/Off]	Indicates condition of head lamp switch 1 operation of combination switch
HEAD LAMP SW 2 [On/Off]	Indicates condition of head lamp switch 2 operation of combination switch
PASSING SW [On/Off]	Indicates condition of passing switch operation of combination switch
AUTO LIGHT SW [On/Off]	Indicates condition of auto light switch operation of combination switch
FR FOG SW [On/Off]	Indicates condition of front fog lamp switch operation of combination switch

BCM

BCM: CONSULT Function (BCM - BCM)

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ECU IDENTIFICATION

The BCM part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to BCS-64, "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-6, "CONFIGURATION (BCM): Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-12, "CAN Diagnostic Support Monitor".

IMMU

IMMU: CONSULT Function (BCM - IMMU)

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SELF DIAGNOSTIC RESULT

Refer to BCS-64, "DTC Index".

DATA MONITOR

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Monitor Item [Unit]	Description
CONFRM ID ALL [Yet/DONE]	
CONFIRM ID4 [Yet/DONE]	
CONFIRM ID3 [Yet/DONE]	Switches to DONE when a registered Intelligent Key is inserted into the key slot.
CONFIRM ID2 [Yet/DONE]	
CONFIRM ID1 [Yet/DONE]	
TP 4 [Yet/DONE]	
TP 3 [Yet/DONE]	DONE indicates the number of Intelligent Key ID which has been registered.
TP 2 [Yet/DONE]	DONE indicates the number of intelligent key in which has been registered.
TP 1 [Yet/DONE]	
PUSH SW [On/Off]	Indicates condition of push button ignition switch
KEY SW -SLOT [On/Off]	Indicates condition of key slot

ACTIVE TEST

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

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

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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
ACC RLY -F/B [On/Off]	Indicates condition of accessory relay
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor
KEY SW -SLOT [On/Off]	Indicates condition of key slot
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 trunk 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
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk room lamp 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].

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Support Item	Setting		Description	
ROOM LAMP BAT SAV SET	ON*		Interior room lamp battery saver function ON	
ROOM LAIME BAT SAV SET	OFF		Interior room lamp battery saver function OFF	
ROOM LAMP TIMER SET	MODE 3*	10 min.		
	MODE 2	60 min.	Sets interior room lamp battery saver timer operating time	
	MODE 1	15 min.		
BATTERY SAVER SET	ON*		Exterior lamp battery saver function ON	
DALIERI SAVER SEL	OFF		Exterior lamp battery saver function OFF	

^{*:} Initial setting

TRUNK

TRUNK: CONSULT Function (BCM - TRUNK)

INFOID:0000000009467052

DATA MONITOR

Monitor Item [Unit] Description PUSH SW [On/Off] Indicates condition of push button ignition switch UNLK SEN -DR [On/Off] Indicates condition of door unlock sensor VEH SPEED 1 [km/h] Indicates vehicle speed signal received from ABS on CAN communication line TR CANCEL SW [On/Off] Indicates condition of trunk lid opener cancel switch TR/BD OPEN SW [On/Off] Indicates condition of trunk lid opener switch TRNK/HAT MNTR [On/Off] Indicates condition of trunk room lamp switch RKE-TR/BD [On/Off] Indicates condition of trunk open signal from Intelligent Key

ACTIVE TEST

Test Item	Description	
TRUNK/GLASS HATCH	This test is able to check trunk open operation [Open].	

THEFT ALM

THEFT ALM: CONSULT Function (BCM - THEFT ALM)

INFOID:0000000009467053

DATA MONITOR

Monitored Item	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 trunk opener request switch
PUSH SW [On/Off]	Indicates condition of push button ignition switch
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor
KEY SW -SLOT [On/Off]	Indicates condition of key slot
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 trunk 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

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< SYSTEM DESCRIPTION >

[BCM]

Monitored Item	Description
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
TR/BD OPEN SW [On/Off]	Indicates condition of trunk lid opener switch
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk room lamp 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-TR/BD [On/Off]	Indicates condition of trunk open signal from Intelligent Key

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting	Description	
SECURITY ALARM SET	On	Security alarm ON	
SECURITY ALARIM SET	Off	Security alarm OFF	
	Off/On	The switch which triggered vehicle security alarm is recorded [On]. This mode is able	
THEFT ALM TRG	CLEAR	to confirm and erase the record of vehicle security alarm. The trigger data can be erased by touching [CLEAR].	

RETAINED PWR

RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000009467054

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:0000000009467055

DATA MONITOR

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

ACTIVE TEST

Test Item	Description
OIL PRESSURE SW	This test is able to check the oil pressure warning lamp operation [On/Off].

AIR PRESSURE MONITOR

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

< SYSTEM DESCRIPTION >

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INFOID:0000000009467056

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 transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

SELF DIAGNOSTIC RESULT

NOTE

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

Refer to BCS-64, "DTC Index".

DATA MONITOR

Monitor Item	Condition	Specification
AIR PRESS FL	Drive vehicle for a few minutes.	
AIR PRESS FR	or	Tire pressure (kPa, kg/cm ² or Psi)
AIR PRESS RR	Ignition switch ON and activation tool is trans- mitting activation signals.	
AIR PRESS RL	mitting activation signals.	
ID REGST FL1		
ID REGST FR1	Ignition quitab ON	Registration ID: Green No registration: Red
ID REGST RR1	Ignition switch ON	
ID REGST RL1		
WARNING LAMP	Ignition switch ON	Low tire pressure warning lamp on: ON Low tire pressure warning lamp off: OFF
BUZZER	Ignition switch ON	Buzzer in combination meter on: ON Buzzer in combination meter off: OFF

ACTIVE TEST

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

WORK SUPPORT

Support Item	Description	
ID READ	The registered ID number is displayed.	
ID REGIST	Refer to WT-6, "ID Registration Procedure".	

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000009467057

Refer to LAN-6, "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:0000000009467059

1. PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 seconds 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 >

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U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

CONSULT display de- scription	DTC Detection Condition	Possible cause
CAN COMM CIRCUIT [U1010]	BCM detected internal CAN communication circuit malfunction.	ВСМ

Diagnosis Procedure

INFOID:0000000009467061

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to BCS-79, "Removal and Installation".

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U0415 VEHICLE SPEED SIG

Description INFOID:0000000009467062

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

DTC Logic INFOID:0000000009467063

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	Diagnostic item is detected when	Probable malfunction location
U0415	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 actuator and electric unit (control unit) BCM Combination meter

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION

- 1. Erase the DTC.
- Turn ignition switch OFF.
- Perform the "SELF-DIAG RESULTS" 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-64, "DTC Index".

>> Inspection End. NO

Diagnosis Procedure

INFOID:0000000009467064

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

Perform Self Diagnostic Result of ABS actuator and electric unit (control unit) with CONSULT. Refer to BRC-21, "CONSULT Function (ABS)".

Is any DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to BRC-82, "DTC No. Index". 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 BRC-32, "Diagnosis Procedure".

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-29, "CONSULT Function." (METER/M&A)".

Is any DTC detected?

>> Perform the trouble diagnosis related to the detected DTC. Refer to MWI-51, "DTC Index". YES

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

B2562 LOW VOLTAGE

		B2562 LOW VOLTAGE		
	RCUIT DIAGNOSIS		[BCM]	
B2562	LOW VOLTAG	E		А
DTC Log	gic		INFOID:0000000009467065	
DTC DET	ECTION LOGIC			В
	Display contents of			
DTC	CONSULT	Diagnostic item is detected when	Possible cause	С
B2562	LOW VOLTAGE	When the power supply voltage to BCM remains less than 8.8 V for 1.5 seconds or more	Harness or connector (power supply circuit)	
	NFIRMATION PRO	CEDURE	_	D
	CONFIRMATION			Е
1. Erase 2. Turn i	DTC. gnition switch OFF.			
	rm the "SELF-DIAG R 5 seconds or more.	ESULTS" of BCM with CONSULT, after the i	gnition switch has been turned ON	F
Is any DTO	C detected?			,
	·> Refer to <u>BCS-35, "</u> ·> Inspection End.	<u>Diagnosis Procedure"</u> .		G
Diagnos	sis Procedure		INFOID:000000009467066	
1. CHEC	K BATTERY VOLTAG	BE		Н
	tery voltage.			
<u>-</u>	voltage less than 8.8\ > Charge battery and	<u>/?</u> I retest. Refer to <u>PG-2, "Work Flow"</u> .		
NO >	> GO TO 2			
		CIRCUIT AND GROUND CIRCUIT	vaccia Dracadura"	J
	ection results normal	it and ground circuit. Refer to <u>BCS-36, "Diac</u> <u>?</u>	inosis Procedure.	1/
	> Replace BCM. Ref > Repair or replace h	er to <u>BCS-79, "Removal and Installation"</u> .		K
	Repair Requirem		INFOID:000000009467067	L
_	IRED WORK WHEN			
		CS-5, "ADDITIONAL SERVICE WHEN REP	LACING CONTROL UNIT (BCM):	BCS
Work Proc			, ,	
>	> Work End.			Ν
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POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000009467068

Regarding Wiring Diagram information, refer to BCS-67, "Wiring Diagram".

1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuses or fusible link are blown.

Terminal No.	Signal name	Fuse and fusible link No.
1		Н
11	Battery power supply	10
24		7

Is the fuse or fusible link blown?

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

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

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

(+)	(-)	Voltage (Approx.)
В	CM		(Approx.)
Connector	Terminal		
M16	1	Ground	
M17	11		Battery voltage
M18	24		

Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

$oldsymbol{3}$. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M17	13		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.

Special Repair Requirement

INFOID:0000000009467069

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to <u>BCS-5</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (<u>BCM</u>) : Work Procedure".

>> Work End.

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COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

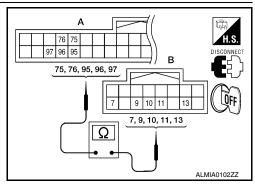
INFOID:0000000009467070

Regarding Wiring Diagram information, refer to BCS-67, "Wiring Diagram".

1. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

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

Cuatam	ВС	CM	Combination switch		Continuity
System	Connector	Terminal	Connector	Terminal	Continuity
INPUT 1		95		11	
INPUT 2		97		9	
INPUT 3	M19 (A)	76	M28 (B)	7	Yes
INPUT 4		96		10	
INPUT 5		75		13	



Does continuity exist?

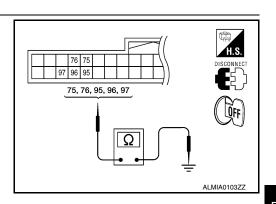
YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

ВС	CM		Continuity
Connector	Terminal		Continuity
	95		
	97	Ground	
M19	76		No
	96		
	75		
	Connector	95 97 M19 76 96	Connector Terminal 95 97 Ground M19 76 96



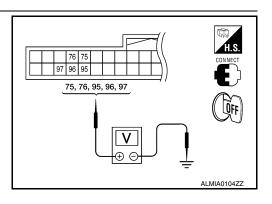
Does continuity exist?

YES >> Repair or replace harness.

NO >> GO TO 3

$3.\,$ CHECK BCM OUTPUT SIGNAL

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



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		Terminals	3	
System	(+)		(-)	Voltage
System	ВС	M		(Approx.)
	Connector	Terminal		
INPUT 1		95		
INPUT 2		97	Ground	Refer to BCS-
INPUT 3	M19	76		46, "Physical
INPUT 4		96		<u>Values"</u> .
INPUT 5	•	75		

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

- YES >> Replace combination switch. Refer to EXL-160, "Removal and Installation" (xenon type) or EXL-324, "Removal and Installation" (halogen type).
 >> Replace BCM. Refer to BCS-79, "Removal and Installation".
- NO

Special Repair Requirement

INFOID:0000000009467071

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to BCS-5, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description".

>> Work end.

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000009467072

Regarding Wiring Diagram information, refer to BCS-67, "Wiring Diagram".

1. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

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

Cuatana	BCN	И	Combination switch		Continuity
System	Connector	Terminal	Connector	Terminal	Continuity
OUTPUT 1		51		12	
OUTPUT 2		52		14	
OUTPUT 3	M18 (A)	53	M28 (B)	5	Yes
OUTPUT 4		54		2	
OUTPUT 5		50		8	

Does continuity exist?

YES >> GO TO 2

NO >> Repair or replace harness.

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

Check for continuity between BCM harness connector and ground.

Cychan	В	СМ		Combination
System	Connector	Terminal		Continuity
OUTPUT 1		51		
OUTPUT 2		52	Ground	
OUTPUT 3	M18	53		No
OUTPUT 4		54		
OUTPUT 5		50		

Does continuity exist?

YES >> Repair or replace harness.

NO >> GO TO 3

$3.\,$ CHECK BCM INPUT VOLTAGE

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

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[BCM]

		Terminals		
System	(+)	(-)	Voltage
System	ВС	M		(Approx.)
	Connector	Terminal		
INPUT 1		95		
INPUT 2		97	Ground	
INPUT 3	M19	76		Refer to <u>BCS-46</u> , "Physical <u>Values"</u> .
INPUT 4		96		<u></u> .
INPUT 5	1	75		

Is the measurement normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".

NO >> Replace the combination switch. Refer to <u>EXL-160</u>, "<u>Removal and Installation</u>" (xenon type) or <u>EXL-324</u>, "<u>Removal and Installation</u>" (halogen type).

Special Repair Requirement

INFOID:0000000009467073

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to BCS-5, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) : Description".

>> Work end.

< ECU DIAGNOSIS INFORMATION >

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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000009467074

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 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

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	F
ED WIDED !!!	Other than front wiper switch HI	OFF	
FR WIPER HI	Front wiper switch HI	ON	
ED WIDED LOW	Other than front wiper switch LO	OFF	G
FR WIPER LOW	Front wiper switch LO	ON	
ED WACHED OW	Front washer switch OFF	OFF	—
FR WASHER SW	Front washer switch ON	ON	
ED WIDED INT	Other than front wiper switch INT	OFF	
FR WIPER INT	Front wiper switch INT	ON	
ED WIDED STOD	Front wiper is not in STOP position	OFF	
FR WIPER STOP	Front wiper is in STOP position	ON	_
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position	
TUDNI CIONIAL D	Other than turn signal switch RH	OFF	
TURN SIGNAL R	Turn signal switch RH	ON	K
TUDNI CIONAL I	Other than turn signal switch LH	OFF	
TURN SIGNAL L	Turn signal switch LH	ON	_
TAIL LAMP CM	Other than lighting switch 1ST and 2ND	OFF	_ L
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON	
HI BEAM SW	Other than lighting switch HI	OFF	BC
HI BEAIVI SVV	Lighting switch HI	ON	
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF	
HEAD LAIVIP SVV I	Lighting switch 2ND	ON	N
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF	_
HEAD LAIVIP SVV 2	Lighting switch 2ND	ON	0
PASSING SW	Other than lighting switch PASS	OFF	_
PASSING SW	Lighting switch PASS	ON	_
AUTO LIGHT SW	Other than lighting switch AUTO	OFF	Р
AUTO LIGHT SW	Lighting switch AUTO	ON	
ED EOC SW	Front fog lamp switch OFF	OFF	
FR FOG SW	Front fog lamp switch ON	ON	
	Driver door closed	OFF	
DOOR SW-DR	Driver door opened	ON	_

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DOOR SW-AS	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOR SW-RR	Rear door RH closed	OFF
DOOR SW-RR	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON
DOOR SW-BK	Trunk door closed	OFF
DOOR SW-BR	Trunk door opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON
CDL UNLOCK SW	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	OFF
RET CTL LR-SW	Driver door key cylinder LOCK position	ON
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	OFF
RET CTL UN-3W	Driver door key cylinder UNLOCK position	ON
HAZARD SW	When hazard switch is not pressed	OFF
HAZAND SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
TR CANCEL SW	Trunk lid opener cancel switch OFF	OFF
TR CANCLE SW	Trunk lid opener cancel switch ON	ON
TR/BD OPEN SW	Trunk lid opener switch OFF	OFF
TR/BD OPEN 3W	While the trunk lid opener switch is turned ON	ON
TRNK/HAT MNTR	Trunk lid closed	OFF
TRINI/HAT WINTE	Trunk lid opened	ON
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	OFF
KKE-LOCK	When LOCK button of Intelligent Key is pressed	ON
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	OFF
RRE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
INC-11000	When TRUNK OPEN button of Intelligent Key is pressed	ON
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF
INL-FANIC	When PANIC button of Intelligent Key is pressed	ON
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RRE-F/W OFEN	When UNLOCK button of Intelligent Key is pressed and held	ON
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
TARE-WIODE ONG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
	When outside of the vehicle is dark	Close to 0 V
DEO SW/ DD	When front door request switch is not pressed (driver side)	OFF
REQ SW -DR	When front door request switch is pressed (driver side)	ON
DEO SW/ AS	When front door request switch is not pressed (passenger side)	OFF
REQ SW -AS	When front door request switch is pressed (passenger side)	ON

< ECU DIAGNOSIS INFORMATION >

[BCM]

Monitor Item	Condition	Value/Status	
DEO SW. DI	When rear door request switch is not pressed (driver side)	OFF	_
REQ SW -RL	When rear door request switch is pressed (driver side)	ON	=
DEO CW. DD	When rear door request switch is not pressed (passenger side)	OFF	-
REQ SW -RR	When rear door request switch is pressed (passenger side)	ON	_
	When trunk opener request switch is not pressed	OFF	_
REQ SW -BD/TR	When trunk opener request switch is pressed	ON	=
DUCU OW	When engine switch (push switch) is not pressed	OFF	-
PUSH SW	When engine switch (push switch) is pressed	ON	_
ION DIVO. E/D	Ignition switch OFF or ACC	OFF	_
IGN RLY2 -F/B	Ignition switch ON	ON	_
4.00 DLV . E/D	Ignition switch OFF	OFF	_
ACC RLY -F/B	Ignition switch ACC or ON	ON	_
	When the brake pedal is not depressed	ON	=
BRAKE SW 1	When the brake pedal is depressed	OFF	_
DETERMANC: STA	When selector lever is in P position	OFF	_
DETE/CANCL SW	When selector lever is in any position other than P	ON	-
	When selector lever is in any position other than P or N	OFF	-
SFT PN/N SW	When selector lever is in P or N position	ON	_
	Driver door UNLOCK status	OFF	_
UNLK SEN -DR	Driver door LOCK status	ON	_
	When engine switch (push switch) is not pressed	OFF	_
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON	_
	Ignition switch OFF or ACC	OFF	_
IGN RLY1 -F/B	Ignition switch ON	ON	_
	When selector lever is in P position	OFF	=
DETE SW -IPDM	When selector lever is in any position other than P	ON	-
	When selector lever is in any position other than P or N	OFF	-
SFT PN -IPDM	When selector lever is in P or N position	ON	-
	When selector lever is in any position other than P	OFF	-
SFT P -MET	When selector lever is in P position	ON	=
	When selector lever is in any position other than N	OFF	-
SFT N -MET	When selector lever is in N position	ON	
	Engine stopped	STOP	-
	While the engine stalls	STALL	-
ENGINE STATE	At engine cranking	CRANK	_
	Engine running	RUN	-
VEH SPEED 1	While driving	Equivalent to speedometer reading	-
VEH SPEED 2	While driving	Equivalent to speedometer reading	-
	Driver door LOCK status	LOCK	_
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY	-
· · · · · · · · · · · · · · · · · ·	Driver door UNLOCK status	UNLK	-
	Passenger door LOCK status	LOCK	=
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY	=
POOK GIAI-AG	Walt with sciedtive dividual operation (3 seconds)	NLADI	_

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
ID OK FLAG	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
PRMT ENG STRT	When the engine start is prohibited	RESET
FINIT LING STRT	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
KET OW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Ke
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
OOM NWID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
COM INWID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
CONFIRM ID3	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIDM ID4	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
CONFIRM ID1	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
174	The ID of fourth key is registered to BCM	DONE
TD 2	The ID of third key is not registered to BCM	YET
TP 3	The ID of third key is registered to BCM	DONE
TP 2	The ID of second key is not registered to BCM	YET
IP Z	The ID of second key is registered to BCM	DONE
TP 1	The ID of first key is not registered to BCM	YET
IFI	The ID of first key is registered to BCM	DONE
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE
ID INEGOT FET	When ID of front LH tire transmitter is not registered	YET
ID DECCT ED4	When ID of front RH tire transmitter is registered	DONE
ID REGST FR1	When ID of front RH tire transmitter is not registered	YET
ID DECCE DD4	When ID of rear RH tire transmitter is registered	DONE
ID REGST RR1	When ID of rear RH tire transmitter is not registered	YET

< ECU DIAGNOSIS INFORMATION >

[BCM]

Monitor Item	Condition	Value/Status
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
ID REGGI KLI	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
WAINING LAWF	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
BUZZER	Tire pressure warning alarm is sounding	ON

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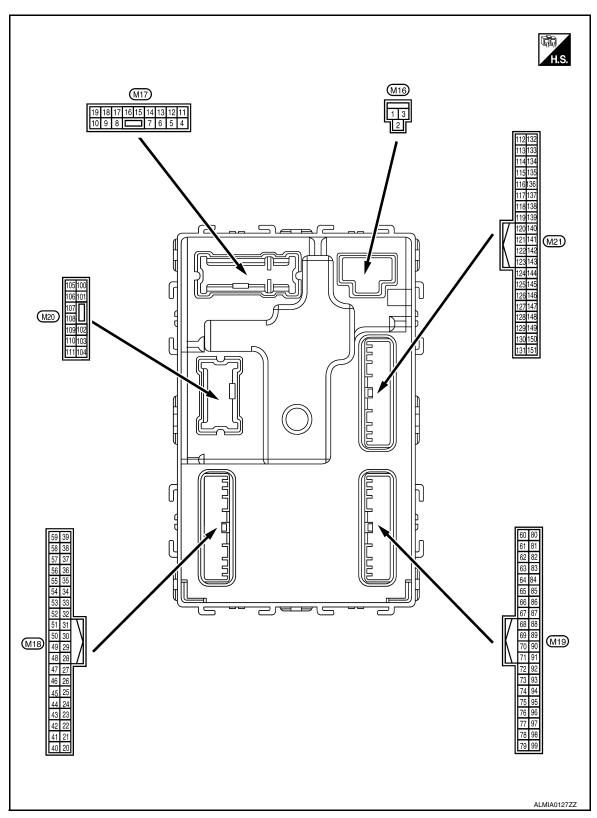
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INFOID:0000000009467075

Terminal Layout



Physical Values

< ECU DIAGNOSIS INFORMATION >

[BCM]

	inal No.	Description			• 1141	Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4	Ground	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V
(P/W)	Oloulia	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage
5	Cround	Front door RH UN-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output	TOTAL GOOF KE	Other than UNLOCK (actuator is not activated)	0V
7	Ground	Step lamp	Output	Step lamp	ON	0V
(R/W)	Cround	Stop larrip	Carput	Stop idilip	OFF	Battery voltage
8	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
(V)	Oround	All doors Look	Output	All doors	Other than LOCK (actuator is not activated)	0V
9	Ground	Front door LH UN-	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage
(L)	Oround	LOCK	Output	Tront door Err	Other than UNLOCK (actuator is not activated)	0V
10	Ground	Rear door RH and rear door LH UN-	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G)	Oround	LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON	T	ov
					OFF	0V
14 (GR/ W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	When the illumination brightening/dimming level is in the neutral position
••,		g. 54.14				0 JSNIA0010GB
15			_		OFF	Battery voltage
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC or ON	0V

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< ECU DIAGNOSIS INFORMATION >

Term	inal No.	Description				
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
	. ,		•		Turn signal switch OFF	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0V
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s 1 s PKID0926E 6.5 V
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage
(Y)	Ground	control	Output	lamp	ON	OV
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch ON	When outside of the vehi- cle is bright When outside of the vehi- cle is dark	Close to 5V Close to 0V
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26 (O/L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is re- leased) ON (brake pedal is de- pressed)	0V Battery voltage
27 (O)	Ground	Front door lock as- sembly LH (unlock sensor)	Input	Front door LH	LOCK status UNLOCK status	(V) 15 10 5 0 10 ms 11.8V
				When Intelligent K	ey is inserted into key slot	Battery voltage
29 (Y)	Ground	Key slot switch	Input	_	ey is not inserted into key slot	0V
31		Rear window defog-		Rear window de-	OFF	0V
(G)	Ground	ger feedback signal	Input	fogger switch	ON	Battery voltage

< ECU DIAGNOSIS INFORMATION >

[BCM]

	inal No. e color)	Description		_	Condition	Value	А
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	,
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	B C
					ON (when front door RH opens)	0V	E
37 (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB	F
					ON	1.1V 0V	
38		Rear window defog-		Rear window de-	OFF	5V	H
(GR/ W)	Ground	ger ON signal	Input	fogger switch	ON	0V	
40 (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB	
				Ignition switch OF	F or ACC	0V	
41		Engine switch (push		Engine switch	ON	5.5V	L
(W)	Ground	switch) illumination	Output	(push switch) illu- mination	0.55		
					OFF	0V 0V	В
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON OFF	Battery voltage	
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V	1
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V	
(V/W)	Giound	power supply output	Output	ignition switch	ACC or ON	5.0V	(

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< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description				Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
47	Cround	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s OCC3881D
(G/O)	Ground	er signal	Output		When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
48		Selector lever trans-			P or N position	12.0V
(R/G)	Ground	mission range switch signal	Input	Selector lever	Except P and N positions	0V
					ON	0V
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB
					OFF	11.3V Battery voltage
					All switch OFF	0V
					Lighting switch 1ST	
				Combination	Lighting switch high-beam	(V)
50 (LG/	Ground	Combination switch	Input	switch	Lighting switch 2ND	10 5 0
`B)		OUTPUT 5	'	(Wiper intermit- tent dial 4)	Turn signal switch RH	0 2 ms
					All switch OFF (Wiper intermittent dial 4)	0V
51 (L/W)	Ground	Combination switch OUTPUT 1	Input	Combination switch	Front wiper switch HI (Wiper intermittent dial 4) Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0032GB

< ECU DIAGNOSIS INFORMATION >

[BCM]

	inal No.	Description				Value	Λ
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switch OFF (Wiper intermittent dial 4)	0V	В
				Combination switch	Front washer switch ON (Wiper intermittent dial 4)	(V)	C
52 (G/B)	Ground	Combination switch OUTPUT 2	Input		Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	10 5 0 2 ms JPMIA0033GB	D
					All switch OFF	0V	E
					Front wiper switch INT		_
				Combination switch (Wiper intermit- tent dial 4)	Front wiper switch LO	(V)	F
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Input		Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB	G
					AII OFF	10.7V	Н
					All switch OFF	0V	=
					Front fog lamp switch ON Lighting switch 2ND		
54 (G/Y)	Ground	Combination switch OUTPUT 4	Input	Combination switch (Wiper intermit-	Lighting switch flash-to- pass	15 10 5 0	ı
				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB	J
57 (W)	Ground	Tire pressure warning check switch	Input		_	5V	- K
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms 10 ms 11.8V	BCS
					ON (front door LH OPEN)	0V	=
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage	0
(G/R)	Cidana	ger relay	Caiput	fogger	Not activated	0V	

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< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
60	Ground	Front console anten-	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(B/R)	Clound	na 2 (-)			When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
61	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(W/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
62		Front outside handle		When the front door RH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(V)	Ground	RH antenna (-)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

	ninal No. e color)	Description				Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
63		Front outside handle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(P)	Ground	RH antenna (+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
64	Constitution	Front outside handle	0.1	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 1
(V)	Ground	LH antenna (-)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
65	Ground	Front outside handle	Quitout	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(P)	Ground	LH antenna (+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description	lee: 4/		Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC ON	0V Battery voltage
71		Remote keyless entry	Input/	During waiting		(V) 15 10 5 1 ms
(L/O)		Output	When operating e	ither button on Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0
75 (R/Y)	Ground	Combination switch INPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 6 Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				V-I
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	Value (Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
76	Ground	d Combination switch	Output	Combination	Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
(R/G)		Output	switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V
78 (P)	Ground	CAN-L	Input/ Output		_	_
79 (L)	Ground	CAN-H	Input/ Output		_	_
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumination	OFF	Battery voltage (V) 15 10 5 U JPMIA0015GB 6.5V
					ON	OV

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V
(L)	Cround	7100 Toldy donator	Output	ignition switch	ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage
87	Ground	Selector lever P posi-	Input	Selector lever	P position	0V
(G/B)	Ground	tion switch	iliput	Selector level	Any position other than P	Battery voltage
					ON (pressed)	0V
88 (R)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
					ON (pressed)	0V
89 (R)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0V
(Y)	Ground	lay control	Juipui	ignition switch	ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage

< ECU DIAGNOSIS INFORMATION >

[BCM]

	inal No.	Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	
95 (R/W)	Ground	Combination switch INPUT 1	Output	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB	
					Front washer switch ON	(V) 15 10 5 0 JPMIA0039GB 1.3V	

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< ECU DIAGNOSIS INFORMATION >

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

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V
97 (R/B)	Ground	Combination switch INPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 2 ms JPMIA0036GB 1.3V
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
103	Ground	Trunk lid opening.	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage
(V)	Ground	Trunk ild Opening.	Output	Trunk iid	Close (trunk lid opener actuator is not activated)	0V
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V
(V/W)		•	•		OFF	Battery voltage
114	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
(B)	Glodina	1 (-)	Guipur	ŌFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
115	Ground	Trunk room antenna	enna Output Ignition switch OFF	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
(W)	Ground	1 (+)		-	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
118		Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(L/O)	Ground	na (-)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
119	Ground	Rear bumper anten-	Output	When the trunk lid request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(BR/ W)	Ground	na (+)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
127 (BR/	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage
W)		E/R) control			ON	0V
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
					ON (trunk is open)	0V
132	Graved	Starter motor relay	Outroit	Ignition switch	When selector lever is in P or N position and the brake is depressed	Battery voltage
(R)	Ground	control	Output	ŎN	When selector lever is in P or N position and the brake is not depressed	OV

< ECU DIAGNOSIS INFORMATION >

[BCM]

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
140	0	Engine switch (push	la a cat	Engine switch	Pressed	0V
(BR)	Ground	switch)	Input	(push switch)	Not pressed	Battery voltage
					ON (pressed)	0V
141 (BR)	Ground	Trunk opener request switch	Input	Trunk opener request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
144	0 1	Request switch buzz-	0 1 1	Request switch	Sounding	0V
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage
147	Cround	Trunk lid opener	Innut	Trunk lid opener	Pressed	0V
(L/R)	Ground	switch	Input	switch	Not pressed	Battery voltage
148 (R/W)	Ground	Rear door RH switch	or RH switch Input Rear door RH switch		OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (when rear door RH opens)	0V
149 (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (when rear door LH opens)	0V

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal

< ECU DIAGNOSIS INFORMATION >

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Display contents of CONSULT	Fail-safe	Cancellation
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions are fulfilled Power position changes to ACC Receives engine status signal (CAN)

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.

DTC Priority • B2562: LO VOLTAGE 1 • U1000: CAN COMM CIRCUIT 2 • U1010: CONTROL UNIT (CAN) · B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY 3 B2192: ID DISCORD BCM-ECM · B2193: CHAIN OF BCM-ECM · B2553: IGNITION RELAY B2555: STOP LAMP • B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION **BCS** B2603: SHIFT POSI STATUS B2604: PNP SWITCH B2605: PNP SWITCH B2608: STARTER RELAY Ν B260A: IGNITION RELAY B260F: ENG STATE SIG LOST • B2614: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • B2618: BCM Р B261A: PUSH-BTN IGN SW B26E1: ENG STATE NO RECIV C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG

< ECU DIAGNOSIS INFORMATION >

[BCM]

Priority	DTC
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1720: [CODE ERR] FR C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1728: [CODE UNIT
6	B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA

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 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 warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-32
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34
B2190: NATS ANTENNA AMP	×	_	_	<u>SEC-37</u>
B2191: DIFFERENCE OF KEY	×	_	_	SEC-40
B2192: ID DISCORD BCM-ECM	×	_	_	<u>SEC-41</u>
B2193: CHAIN OF BCM-ECM	×	_	_	<u>SEC-42</u>
B2553: IGNITION RELAY	_	_	_	PCS-46
B2555: STOP LAMP	_	_	_	<u>SEC-43</u>
B2556: PUSH-BTN IGN SW	_	×	_	<u>SEC-46</u>
B2557: VEHICLE SPEED	×	×	_	<u>SEC-48</u>
B2560: STARTER CONT RELAY	×	×	_	SEC-49

< ECU DIAGNOSIS INFORMATION >

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2562: LOW VOLTAGE	_	_	_	BCS-35
B2601: SHIFT POSITION	×	×	_	SEC-50
B2602: SHIFT POSITION	×	×	_	SEC-53
B2603: SHIFT POSI STATUS	×	×	_	<u>SEC-56</u>
B2604: PNP SWITCH	×	×	_	SEC-59
B2605: PNP SWITCH	×	×	_	<u>SEC-61</u>
B2608: STARTER RELAY	×	×	_	<u>SEC-63</u>
B260A: IGNITION RELAY	×	×	_	PCS-48
B260F: ENG STATE SIG LOST	×	×	_	<u>SEC-65</u>
B2614: ACC RELAY CIRC	_	×	_	PCS-50
B2615: BLOWER RELAY CIRC	_	×	_	PCS-53
B2616: IGN RELAY CIRC	_	×	_	PCS-56
B2617: STARTER RELAY CIRC	×	×	_	SEC-67
B2618: BCM	×	×	_	PCS-59
B261A: PUSH-BTN IGN SW	_	×	_	PCS-60
B2622: INSIDE ANTENNA	_	_	_	DLK-60
B2623: INSIDE ANTENNA	_	_	_	DLK-63
B26E1: ENG STATE NO RES	×	×	_	SEC-66
C1704: LOW PRESSURE FL	_	_	×	<u>WT-43</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-43</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-43</u>
C1707: LOW PRESSURE RL	_	_	×	<u>WT-43</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-13</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-15</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-15</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-15</u>

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< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-19</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-20</u>

< WIRING DIAGRAM > [BCM]

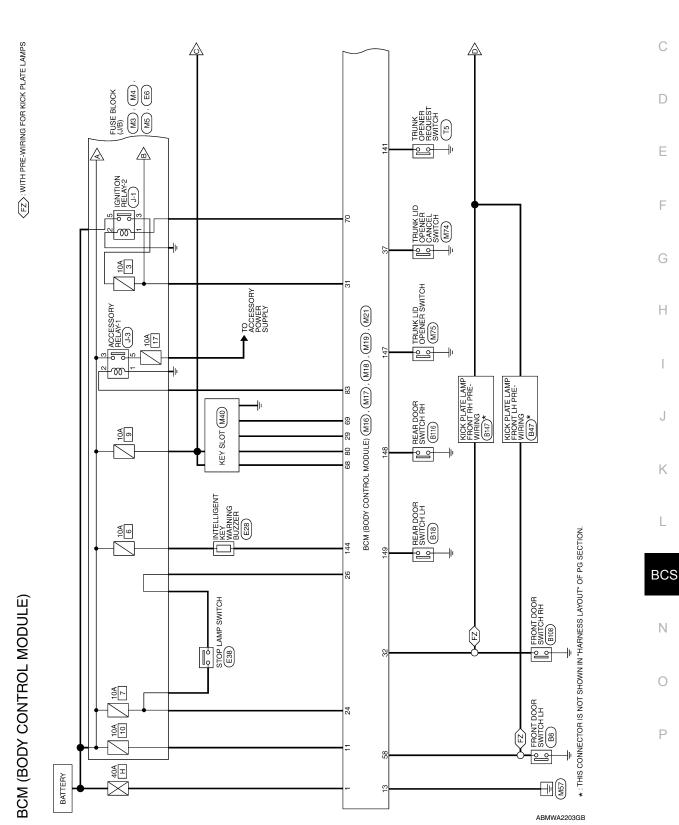
WIRING DIAGRAM

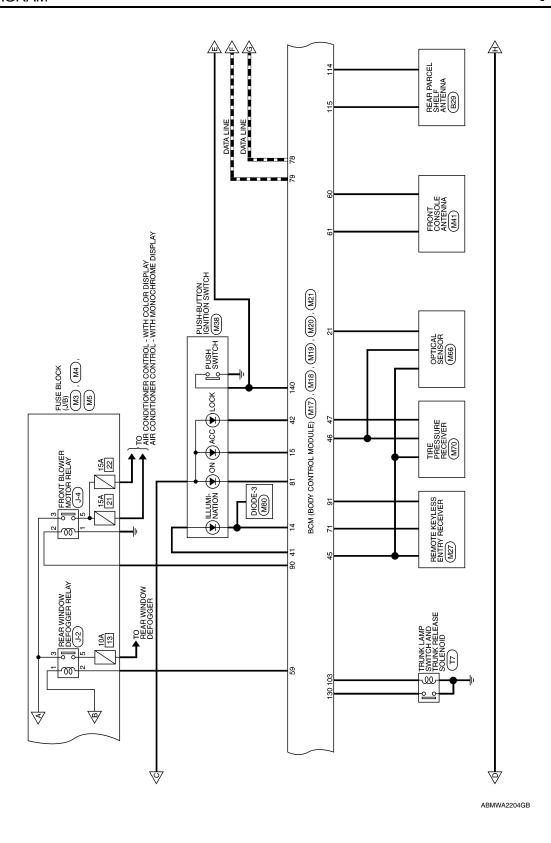
BCM (BODY CONTROL MODULE)

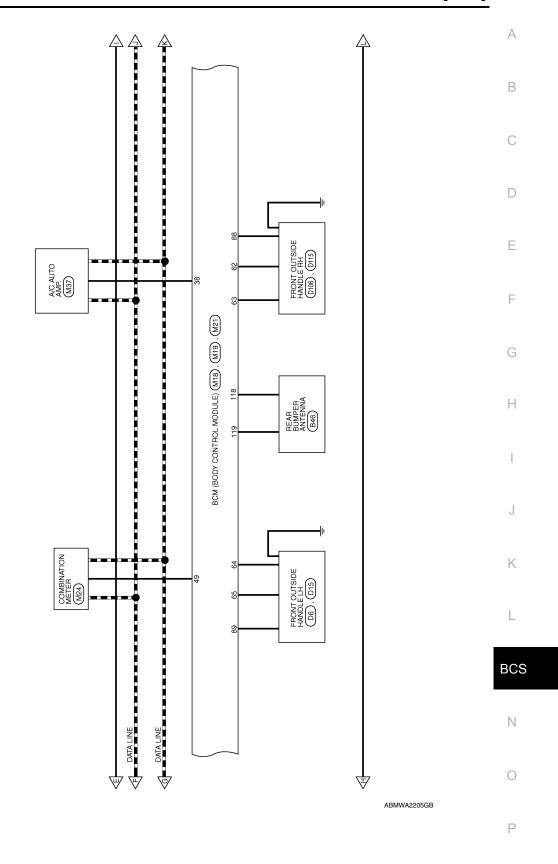
Wiring Diagram

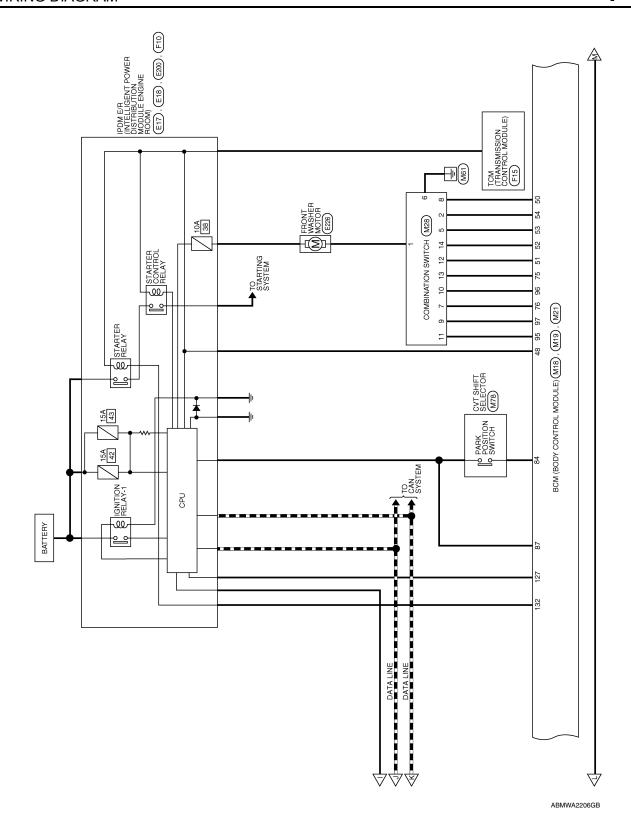
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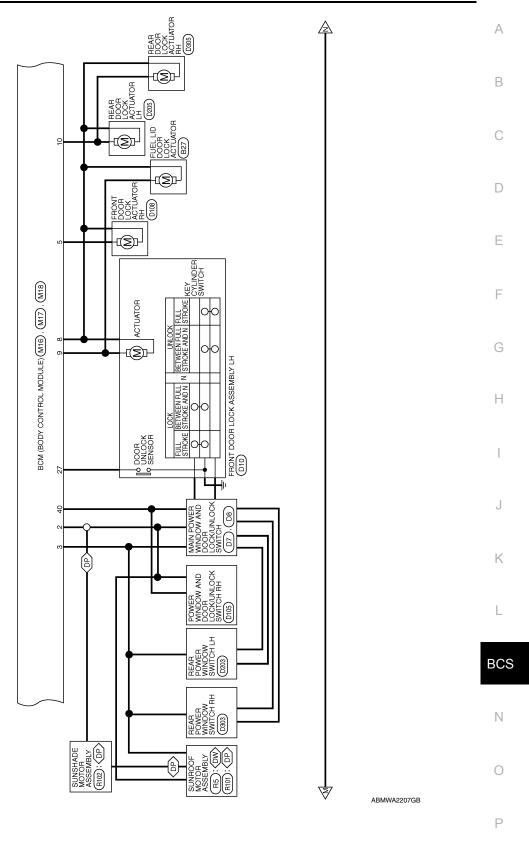




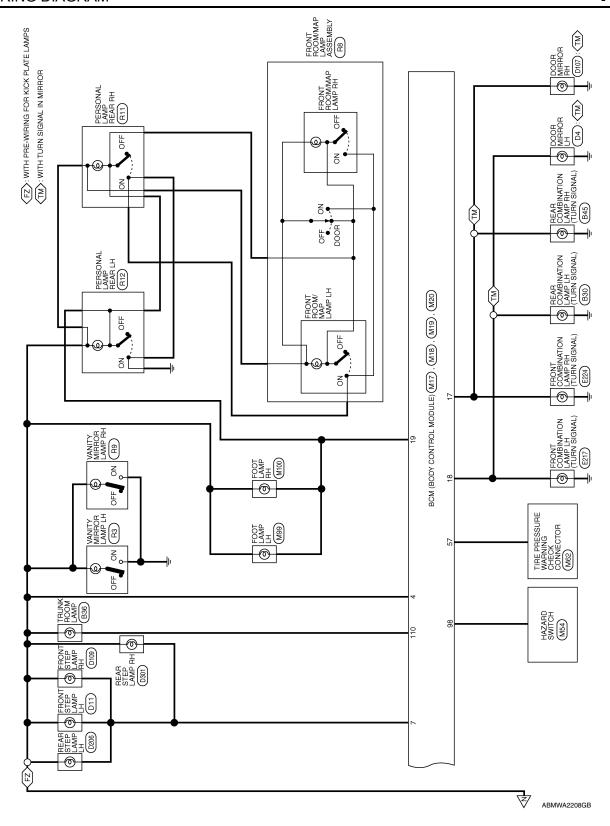








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Connector No. M	OIM	Connector No.	<u>-</u>		- H	500	
e	BCM (BODY CONTROL	Connector Name		BCM (BODY CONTROL	l erminal No.	o. Wire	
\rightarrow	ODÙLE)		ŌW	DÙLE)	10	σ	DOOR UNLOCK OUTPUT (RR/RL)
Connector Color BL	BLACK	Connector Color WHITE	olor WH		11	Y/R	BAT BCM FUSE
		4			12	-	ı
	13	NH H	11 12 13	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10	13	В	GND1
H.S.		H.S.	01 21 11	2- 2- 2- 2- 2- 2- 2- 2- 2- 2- 2- 2- 2- 2	14	GR/W	LOW SIDE PUSH LED
Terminal No. Wire	of Signal Name	Terminal No.	Color of Wire	Signal Name	15	X/L	ACC LED
1 W/B	BATT (E/I)	4	MA WA	B/I POWER SLIPPI Y	16	ı	1
	איומקויט מראאסמיאאים			DOOR UNLOCK	17	g/B	FR FLASHER
2 R/Y	P/W POWER SUPPLY PERM	Ω	5	OUTPUT AS	18	Ç√S	FL FLASHER
	P/W POWER SUPPLY	9	ı	1	19	>	ROOM LAMP CONT
м г	NDI	7	B/W	STEP LAMP CONT			
		ω	>	DOOR LOCK OUTPUT ALL			
		6		DOOR UNLOCK OUTPUT (DR/FL)			
	81	Terminal No.	Color of Wire	Signal Name	Terminal No.	o. Wire	of Signal Name
Connector Name DO	MODULE)	27	0	DOOR LOCK STATUS DR	45	۵	GND RF2 A/L
Connector Color GF	GREEN	28	I	1	46	WA	A/L POWER SUPPLY
		59	>	FOB IN SW 1	2 [5V
		30	ı	1	4/	0/5	HF2 LUNEH SIGNAL
H.S.		31	g	IGN F/B	48	R/G	SMILLINFINEUTRAL
37 36 35 34 33 39	\ =		B/B	AS DOOR SW 1	49	9	IMMO LED (SECURITY
59 58 57 56 55 54 53 52	51 50 49 48 47 46 45 44 43		ı	1	50	I G/B	+
200		34	ı	1	51	X	
Terminal No. Wire	Signal Name	35	ı	ſ	52	. E	C TI IdNI
20 -	1	36	ı	1	27 27	a/c	
21 P/B	A/L SIGNAL TYPE 1	37	0	TRUNK CANCEL SW	54	3 3	
	1	38	GR/W	REAR DEFOGGER SW	5 4	5	-
	1	39	ı	ı	23		
24 B/W	RRAKE SW1	40	Y/G	PW K-LINE	20 20	}	1
		41	>	RING LED	/6	>	I PMS MODE
		42	Œ	S/L LOCK LED	28	SB	DR DOOR SW
Z6 O/L	BRAKE SW2	43	ı	1	29	G/R	REAR DEFOGGER
		44	-	_			

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Signal Name	AT DEVICE OUT	I	I	SHIFT P/ASCD CANCEL SW	AS REQUEST SW	DR REQUEST SW	BLOWER FAN RELAY	RF POWER SUPPLY 12V	I	ı	ı	OUTPUT 1	OUTPUT 4	OUTPUT 2	HAZARD SW	1
Color of Wire	Y/R	_	1	G/B	В	Я	>	L/R	ı	1	1	R/W	P/B	R/B	G/O	-
Terminal No.	84	85	98	87	88	68	06	91	92	93	94	92	96	26	86	66

Signal Name	-	FOB READER CLOCK	FOB READER DATA	IGN REL OUTPUT 2	RF1 TUNER SIGNAL	_	_	I	OUTPUT 5	S TUATUO	_	CAN-L	CAN-H	FOB SLOT ILLUMINATION	IGN ON LED	-	ACC CONT
Color of Wire	1	G/O	0	R/B	L/O	_	1	ı	R/Υ	R/G	_	Р	L	R/L	LG	_	L
Terminal No.	29	89	69	70	71	72	73	74	75	9/	77	78	79	80	81	82	83

			г		
				99	80
				61	81
				62	82
				83	83
	ᅵ员			79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60	99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81
	<u> </u>			65	85
	ˈz			99	86
	18			29	87
	≿		117	88	88
				69	88
	BCM (BOD MODULE)	×	I N	02	90
ი	≅ □	18		7	91
W19	88	ᆸ	5	72	92
	O)			73	93
	≧	ᅙ		74	64
ž	🛎	ပြ		75	96
ō	Ö	ō		9/	96
ec	60	ec	46	22	46
Ē	€	Ē	H.S.	78	98
Connector No.	Connector Name BCM (BODY CONTROL MODULE)	Connector Color BLACK		79	66

Signal Name	ROOM ANT 2 B	ROOM ANT 2 A	AS DOOR ANT B	AS DOOR ANT A	DR DOOR ANT B	DR DOOR ANT A	1
Color of Wire	B/R	W/R	^	۵	>	Ь	ı
Terminal No.	09	61	62	63	64	99	99

Signal Name	I	I	I	ı	ı	I	TRUNK LAMP CONT	ı
Color of Wire	ı	I	1	ı	ı	ı	W/V	ı
Terminal No. Wire	104	105	106	107	108	109	110	111

M20	Connector Name BCM (BODY CONTROL MODULE)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

107 108 109 104 111	Signal Name	ı	ı	ı
100 101 101 105 106 1	Color of Wire	ı	ı	ı
S.	minal No.	100	101	102

ABMIA5250GB

CDL BACK TRUNK

Signal Name	ı	1	ı	ı	ENG START SW	TRUNK REQUEST SW	ı	1	BUZZER	ı	_	BACK TRUNK OPENER	RR DOOR SW	RL DOOR SW	-	I
Color of Wire	_	_	-	-	BR	BR	1	_	GR	1	_	L/R	B/W	R/B	_	_
Terminal No.	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151

Signal Name	BACK DOOR ANT A	ı	ı	1	ı	ı	1	1	IGN RELAY OUTPUT	ı	I	TRUNK SW	ı	ST RELAY OUTPUT	I	I	ı	
Color of Wire	BR/W	-	-	-	-	-	-	-	BR/W	-	-	M	-	н	-	-	-	
Terminal No.	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	

Ŏ	Connector No.	ec	ğ	₂	ا نا	_	M21	-												
O	Connector Name BCM (BODY CONTROL MODULE)	ec	for	Z _a	Ĭ.		8	ΣĞ	BCM (BOD MODULE)		>	\circ	Ž	ΙΉ	О					
Ö	Connector Color GRAY	ec	ŏ	ပိ	ò	Ĕ	뜐	[€												
	唇.S.H.S.	(ó							IN	<i> </i>										Г
131	130	129	128	127	130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114	53	124	123	23	121	120	119	118	117	119	115	114	13	112	=
50	151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132	149	148	147	46	145	4	55	142	7	140	133	38	137	38	135	132	133	83	

Color of Mire 112 - 113 - 114 B 115 W 116 - 117 - 117 117 - 117 118 L/O	Signal Name	ı	ı	TRUNK ANT 1 B	TRUNK ANT 1 A	ı	1	BACK DOOR ANT B	
112 113 114 115 116 117	Color of Wire	1	ı	В	Μ	ı	ı	0/1	
<u> </u>	Terminal No.	112	113	114	115	116	117	118	

Signal Name	I	ı	1	ı	ı
Color of Wire	B/B	W/A	M/l	R/Υ	G/B
Terminal No. Wire	10	1	12	13	14

M28	Connector Name COMBINATION SWITC	HITE	8 6 9 10 11 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	of Signal Name
Connector No. M.	Connector Name Co	Connector Color WHITE	H.S.	Terminal No. Color of

9 10 11 12 13 14	Signal Name	1	1	_	_	I	_	-
7 8 9	Color of Wire	B/L	G/Y	LG/R	В	R/G	LG/B	B/B
Ċ.	Terminal No.	-	2	2	9	7	8	6

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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: x

	Data monitor item													
Malfunction combination	FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	INT VOLUME	TURN SIGNAL R	TURN SIGNAL L	TAIL LAMP SW	HI BEAM SW	HEAD LAMP SW 1	HEAD LAMP SW 2	PASSING SW	AUTO LIGHT SW	FR FOG SW
Α		×	×			×	×							
В	×			×						×		×		
С					×				×		×			
D					×			×					×	
E					×									×
F	×				×									
G			×		×									
Н		×		×									×	
I							×				×	×		×
J						×		×	×	×				
K	All Items													
L	If only one item is detected or the item is not applicable to the combinations A to J													

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	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-37, "Diagnosis Procedure".				
С	Combination switch INPUT 3 circuit					
D	Combination switch INPUT 4 circuit					
Е	Combination switch INPUT 5 circuit					
F	Combination switch OUTPUT 1 circuit					
G	Combination switch OUTPUT 2 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to BCS-39, "Diagnosis Procedure".				
Н	Combination switch OUTPUT 3 circuit					
I	Combination switch OUTPUT 4 circuit					
J	Combination switch OUTPUT 5 circuit					
K	BCM	Replace BCM. Refer to BCS-79, "Removal and Installation".				
L	Combination switch	Replace the combination switch. Refer to <u>WW-85</u> , "Removal and Installation".				

PRECAUTIONS

[BCM] < PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRF-TFNSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the 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
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

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PREPARATION

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PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000009467083

Tool name		Description
Power tool		Loosening nuts, screws and bolts
	PIIB1407E	
One-way screw removal tool		Removing one-way screws
	ALMIA0486ZZ	

< REMOVAL AND INSTALLATION >

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REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

Removal and Installation

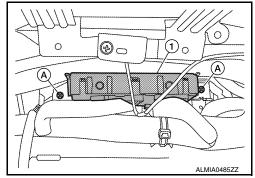
INFOID:0000000009467084

REMOVAL

CAUTION:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>BCS-5</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)</u>: Work <u>Procedure"</u>.

- Remove the combination meter. Refer to MWI-122, "Removal and Installation".
- 2. Remove the BCM screws (A) using a suitable tool and pull out the BCM (1).
- Disconnect the harness connector from the BCM (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When replacing BCM, perform "WRITE CONFIGURATION". Refer to <u>BCS-5</u>, "<u>ADDITIONAL SERVICE</u> <u>WHEN REPLACING CONTROL UNIT (BCM)</u>: 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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