SECTION BODY CONTROL SYSTEM

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< BASIC INSPECTION >

BASIC INSPECTION Α INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT В ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description INFOID:0000000001697932 BEFORE REPLACEMENT When replacing BCM, save or print current vehicle specification with CONSULT-III configuration before replacement. D NOTE: If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing BCM. Е AFTER REPLACEMENT **CAUTION:** When replacing BCM, you must perform "WRITE CONFIGURATION" with CONSULT-III. F - Complete the procedure of "WRITE CONFIGURATION" in order. - If you set incorrect "WRITE CONFIGURATION", incidents might occur. Configuration is different for each vehicle model. Confirm configuration of each vehicle model. When replacing BCM, perform the system initialization (NATS). ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement INFOID:0000000001697933 1. SAVING VEHICLE SPECIFICATION (P)CONSULT-III Configuration Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-3, "CONFIGU-RATION (BCM): Description". NOTE: If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing BCM. K >> GO TO 2. 2.replace $_{ m BCM}$ Replace BCM. Refer to BCS-67, "Exploded View". >> GO TO 3. **BCS** 3.writing vehicle specification (P)CONSULT-III Configuration Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to BCS-4, "CONFIGURATION (BCM): Special Repair Requirement". >> GO TO 4. 4. INITIALIZE BCM (NATS) Perform BCM initialization, (NATS) Р >> WORK END CONFIGURATION (BCM)

Vehicle specification needs to be written with CONSULT-III because it is not written after replacing BCM.

CONFIGURATION (BCM): Description

BCS-3 Revision: 2008 January 2008 Rogue

< BASIC INSPECTION >

Configuration has three functions as follows

Function	Description
READ CONFIGURATION	Reads the vehicle configuration of current BCM.Saves the read vehicle configuration.
WRITE CONFIGURATION - Manual selection	Writes the vehicle configuration with manual selection.
WRITE CONFIGURATION - Config file	Writes the vehicle configuration with saved data.

NOTE:

Manual setting item: Items which need selection by vehicle specifications

Automatic setting item: Items which are written in automatically (Setting can not be changed)

CAUTION:

- When replacing BCM, you must perform "WRITE CONFIGURATION" with CONSULT-III.
- Complete the procedure of "WRITE CONFIGURATION" in order.
- If you set incorrect "WRITE CONFIGURATION", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- Never perform "WRITE CONFIGURATION" except for new BCM.

CONFIGURATION (BCM): Special Repair Requirement

INFOID:0000000001697935

1. WRITING MODE SELECTION

CONSULT-III Configuration

Select "CONFIGURATION" of BCM.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

2.PERFORM "WRITE CONFIGURATION - CONFIG FILE"

CONSULT-III Configuration

Perform "WRITE CONFIGURATION - Config file".

>> WORK END

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

(P)CONSULT-III Configuration

- 1. Select "WRITE CONFIGURATION Manual selection".
- Identify the correct model and configuration list. Refer to <u>BCS-4, "CONFIGURATION (BCM): Configuration list".</u>
- 3. Confirm and/or change setting value for each item.
- 4. Select "Setting change".

CAUTION:

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

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

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> WORK END

CONFIGURATION (BCM): Configuration list

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EXCEPT FOR MEXICO, WITHOUT I-KEY

< BASIC INSPECTION >

MANUAL SE	TTING ITEM	NOTE	
Items	Setting value	NOTE	
KEYLESS ENTRY	WITH	_	
I-KEY	WITHOUT	_	
TK/BD OPEN LGIC	MODE2	_	
DTRL	MODE1/MODE3	MODE1: Except for CanadaMODE3: For Canada	
ems which confirm vehicle spec	ifications		
AUTO SET	TING ITEM		
Items	Setting value	NOTE	
TIRE PRESSURE	MODE2	_	
DISPLAY STYLE	MODE1	_	
REAR WIPER	WITH	_	
RR WIPER GND	MODE2	_	
SPEED SIGNAL	MODE2	_	
WAKUP SLP LOG	MODE1	_	
BUCKLE SW	MODE2	_	
THEFT ALARM	WITH	_	
SEAT BLT WARN	WITH	_	
TPMS	WITH	_	
CEPT FOR MEXICO, W	ITH I-KEY		
MANUAL SE	TTING ITEM	NOTE	
Items	Setting value	NOTE	
KEYLESS ENTRY	WITHOUT	_	
I-KEY	WITH	_	
TK/BD OPEN LGIC	MODE3	_	
DTRL	MODE1/MODE3	MODE1: Except for CanadaMODE3: For Canada	
ems which confirm vehicle spec	ifications		-
AUTO SET	TING ITEM	NOTE	
Items	Setting value	NOTE	
TIRE PRESSURE	MODE2	_	
DISPLAY STYLE	MODE1	_	
REAR WIPER	WITH	_	
TAE/TAY TITLE TO			
RR WIPER GND	MODE2	_	

FOR MEXICO

SPEED SIGNAL

WAKUP SLP LOG

BUCKLE SW

THEFT ALARM

SEAT BLT WARN

TPMS

MODE2

MODE1

MODE2

WITH

WITH

WITH

< BASIC INSPECTION >

C BASIC INSI ESTISIV		
MANUAL SE	ETTING ITEM	NOTE
Items	Setting value	- NOTE
KEYLESS ENTRY	WITHOUT	_
AUTO SET	TING ITEM	NOTE
Items	Setting value	NOTE
TIRE PRESSURE	MODE2	_
DISPLAY STYLE	MODE1	-
REAR WIPER	WITH	_
RR WIPER GND	MODE2	_
SPEED SIGNAL	MODE2	_
WAKUP SLP LOG	MODE1	-
BUCKLE SW	MODE2	-
THEFT ALARM	WITH	_
I-KEY	WITH	-
TK/BD OPEN LGIC	MODE3	-
DTRL	MODE1	_
SEAT BLT WARN	WITHOUT	_
TPMS	WITHOUT	_

BODY CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

FUNCTION DIAGNOSIS

BODY CONTROL SYSTEM

System Description

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OUTLINE

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

BCM FUNCTION LIST

	System	Reference page		
Combination switch read	ling system	BCS-9, "System Diagram"		
Signal buffer system		BCS-13, "System Diagram"		
Power consumption con-	trol system	BCS-14, "System Diagram"		
Headlamp system		XENON TYPE: EXL-8, "System Diagram" HALOGEN TYPE: EXL-136, "System Diagram"		
Daytime running light sy	stem	EXL-138, "System Diagram"		
Front fog lamp system		EXL-10, "System Diagram"		
Turn signal and hazard v	varning lamp system	EXL-12, "System Diagram"		
Parking, license plate ar	nd tail lamps system	EXL-14, "System Diagram"		
Exterior lamp battery sav	ver system	EXL-16, "System Diagram"		
Interior room lamp contro Luggage room lamp	ol system	INL-5, "System Diagram"		
Interior room lamp batte	ry saver system	INL-9, "System Diagram"		
Front wiper and washer		WW-5, "System Diagram"		
Rear wiper and washer s	system	WW-10, "System Diagram"		
Warning chime system	<u> </u>	WCS-5, "WARNING CHIME SYSTEM : System Diagram"		
Manual air conditioner s	ystem	HAC-9, "System Diagram"		
	Door lock and unlock switch	With Intelligent Key system: DLK-16, "DOOR LOCK AND UNLOCK SWITCH: System Diagram" Without Intelligent Key system: DLK-314, "DOOR LOCK AND UNLOCK SWITCH: System Diagram" Without Intelligent Key system: DLK-314, "DOOR LOCK AND UNLOCK SWITCH: System Diagram"		
Door lock system	Key reminder	With Intelligent Key system: <u>DLK-27, "KEY REMINDER: System Diagram"</u> Without Intelligent Key system: <u>DLK-320, "KEY REMINDER: System Diagram"</u>		
Back door opener function		With Intelligent Key system: <u>DLK-31, "BACK DOOR OPENER SWITCH: System Diagram"</u> Without Intelligent Key system: <u>DLK-323, "BACK DOOR OPENER SWITCH: System Diagram"</u>		
Nissan vehicle immobilizer system-NATS (NVIS)		 With Intelligent Key system: <u>SEC-15, "System Diagram"</u> Without Intelligent Key system: <u>SEC-169, "System Diagram"</u> 		
Vehicle security (theft wa	arning) system	 With Intelligent Key system: <u>SEC-20, "System Diagram"</u> Without Intelligent Key system: <u>SEC-173, "System Diagram"</u> 		

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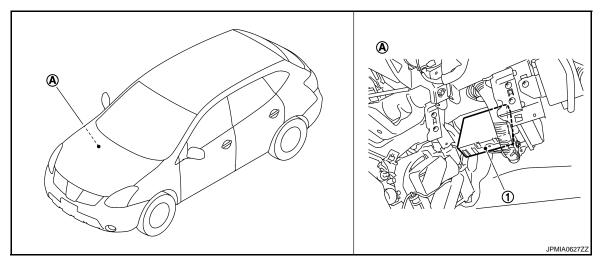
BODY CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

	System		Reference page		
Panic alarm system			With Intelligent Key system: <u>DLK-19</u> , "INTELLIGENT KEY: System <u>Description"</u> Without Intelligent Key system: <u>DLK-316</u> , "KEYFOB: System <u>DSCRIPTION</u> "		
Rear window defogger sys	Rear window defogger system		DEF-4, "System Diagram"		
Remote keyless entry system			DLK-316, "KEYFOB: System Diagram"		
		Intelligent Key	DLK-19, "INTELLIGENT KEY: System Diagram"		
Intelligent Key avetem	Door lock function	Door request switch	DLK-23, "DOOR REQUEST SWITCH : System Diagram"		
Intelligent Key system	14.104.01.	Key reminder	DLK-27, "KEY REMINDER : System Diagram"		
	Warning fu	nction	DLK-35, "System Diagram"		
Power window system			PWC-7, "System Diagram"		
Retained accessory power (RAP) system			PWC-7, "System Description"		
Tire pressure monitor system (TPMS) - AIR PRESSURE MON-ITOR		IR PRESSURE MON-	WT-7, "System Diagram"		

Component Parts Location

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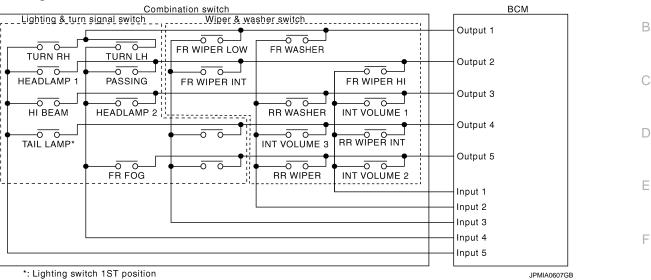


- 1. BCM
- A. Over the glove box

< FUNCTION DIAGNOSIS >

COMBINATION SWITCH READING SYSTEM

System Diagram



System Description

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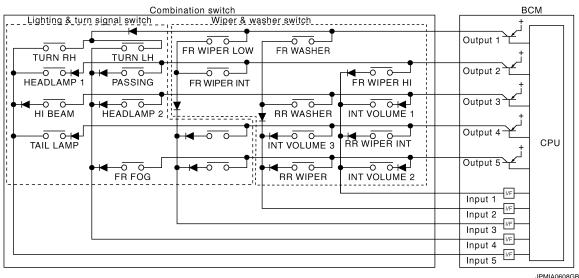
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OUTLINE

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

COMBINATION SWITCH MATRIX

Combination switch circuit



Combination switch INPUT-OUTPUT system list

on bridger of the control of the con					
System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
OUTPUT 1	_	FR WASHER	FR WIPER LOW	TURN LH	TURN RH
OUTPUT 2	FR WIPER HI	_	FR WIPER INT	PASSING	HEADLAMP 1
OUTPUT 3	INT VOLUME 1	RR WASHER	_	HEADLAMP 2	HI BEAM

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< FUNCTION DIAGNOSIS >

System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
OUTPUT 4	RR WIPER INT	INT VOLUME 3	_	_	TAIL LAMP
OUTPUT 5	INT VOLUME 2	RR WIPER	_	FR FOG	_

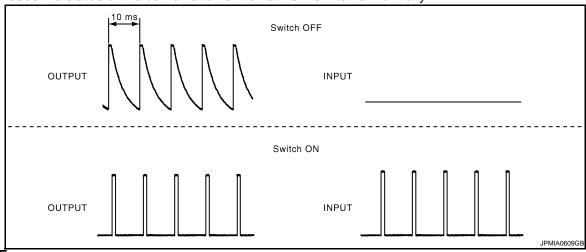
NOTE:

Headlamp has a dual system switch.

COMBINATION SWITCH READING FUNCTION

Description

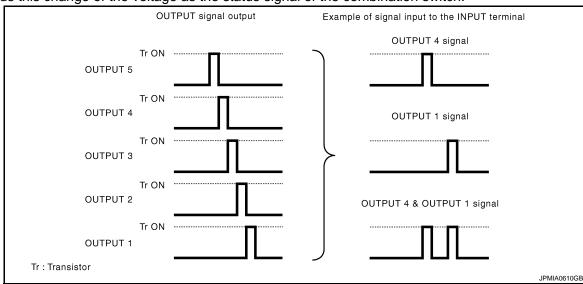
• BCM reads the status of the combination switch at 10 ms interval normally.



NOTE:

BCM reads the status of the combination switch at 65 ms interval when BCM is controlled at low power consumption control mode.

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



Operation Example

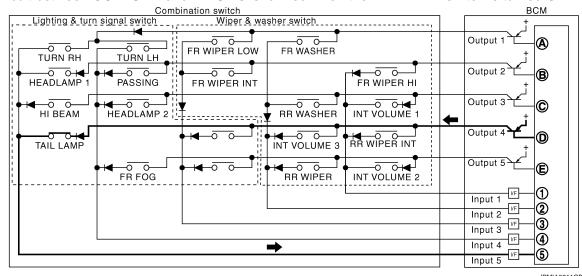
In the following operation example, the combination of the status signals of the combination switch is replaced as follows: INPUT 1 - 5 to "1 - 5" and OUTPUT 1 - 5 to "A - E".

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

< FUNCTION DIAGNOSIS >

input to INPUT 5.

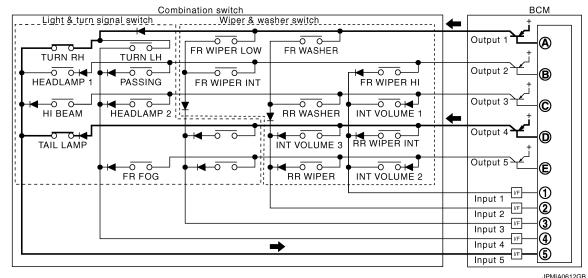
• The circuit between OUTPUT 4 and INPUT 5 is formed when the TAIL LAMP switch is turned ON.



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

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

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



- BCM detects the combination switch status signal "5AD" when the signals of OUTPUT 1 and OUTPUT 4 are
- 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.

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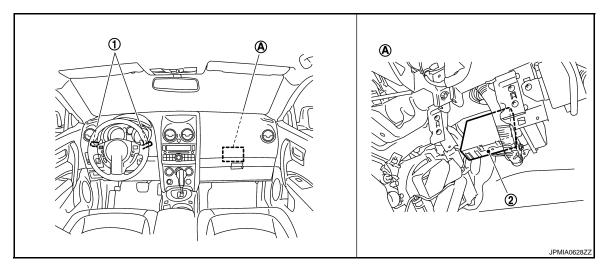
BCS-11 Revision: 2008 January 2008 Rogue

< FUNCTION DIAGNOSIS >

Wiper intermittent	Intermittent	INT VOLUME switch ON/OFF status			
dial position	operation delay interval	INT VOLUME 1 switch	INT VOLUME 2 switch	INT VOLUME 3 switch	
1	0	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		OFF	ON	OFF	

Component Parts Location

INFOID:0000000001697941



- 1. Combination switch
- A. Over the glove box

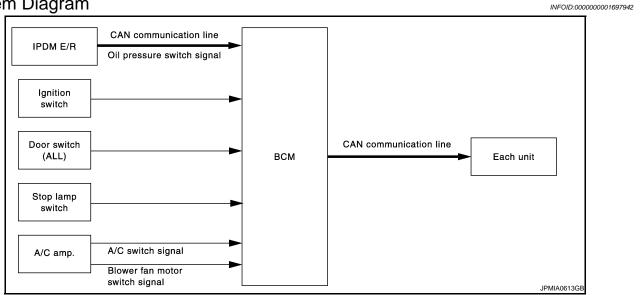
2. BCM

SIGNAL BUFFER SYSTEM

< FUNCTION DIAGNOSIS >

SIGNAL BUFFER SYSTEM

System Diagram



System Description

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OUTLINE

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

SIGNAL TRANSMISSION FUNCTION LIST

Signal name	Input	Output	Description	
Ignition switch ON signal	Ignition switch	IPDM E/R (CAN)	Inputs the ignition switch signal and transmits it with CAN communication.	
Door switch signal	Any door switch	Combination meter (CAN) IPDM E/R (CAN) Intelligent Key unit (CAN)	Inputs the door switch signal and transmits it with CAN communication.	k
Stop lamp switch signal	Stop lamp switch	TCM (CAN)	Inputs the stop lamp switch signal and transmits it with CAN communication.	L
Oil pressure switch signal	IPDM E/R (CAN)	Combination meter (CAN)	Transmits the received oil pressure switch signal with CAN communication.	В
A/C switch signal	A/C 2002	ECM (CANI)	Inputs the A/C switch signal and transmits it with CAN communication.	N
Blower fan motor switch signal	A/C amp.	ECM (CAN)	Inputs the Blower fan motor switch signal and transmits it with CAN communication.	(

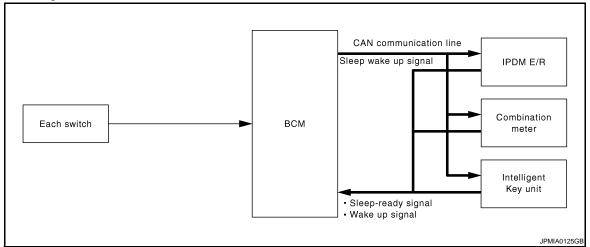
BCS-13 Revision: 2008 January 2008 Rogue Р

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM

System Diagram

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System Description

INFOID:0000000001697945

OUTLINE

- BCM incorporates a power consumption control function that reduces the power consumption according to the vehicle status.
- BCM switches the status (control mode) by itself with the power saving control function. It performs the sleep request to each unit (IPDM E/R, combination meter and Intelligent Key unit) that operates with the ignition switch OFF.

Normal mode (wake-up)

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

CAN communication sleep mode (CAN sleep)

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

Low power consumption mode (BCM sleep)

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

LOW POWER CONSUMPTION CONTROL WITH BCM

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

The reading interval of the each switches changes from 10 ms interval to 65 ms interval.

SLEEP OPERATION

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

POWER CONSUMPTION CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

CAN sleep condition	BCM sleep condition
 Receiving the sleep-ready signal (ready) from all units Key switch status: No change Ignition switch: OFF Door switch status: No change Door lock status: No change Hazard warning lamp: Not operation Exterior lamp: OFF Warning lamp: Not operation (Except security indicator) Warning chime: Not operation Remote keyless entry receiver: Not receiving Intelligent key unit communication: No operation request (CAN) CONSULT-III communication status: Not communication Vehicle security system alarm: Not operation Stop lamp switch: OFF 	The controls only BCM are completed. (Interior room lamp battery saver: Time out etc.)

WAKE-UP OPERATION

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

Wake-up condition

BCM wake-up condition		
Receiving the sleep-ready signal (Not-ready) from any unit		
 Key switch: OFF → ON, ON → OFF 		
 Ignition switch: OFF → ACC or ON 		
• Any door switch: OFF \rightarrow ON, ON \rightarrow OFF		
 Central door lock switch: NEUTRAL → LOCK, NEUTRAL → UNLOCK 		
 Key cylinder switch: NEUTRAL → LOCK, NEUTRAL → UNLOCK 		
 Hazard switch: OFF → ON 		

• Lighting switch: OFF \rightarrow 1ST or PASS

· Remote keyless entry receiver: Receiving

- · Intelligent key unit communication: Receiving operation request (CAN)
- · CONSULT-III communication status: Receiving
- Stop lamp switch: ON (Depress brake pedal)
- Back door opener switch OFF \rightarrow ON

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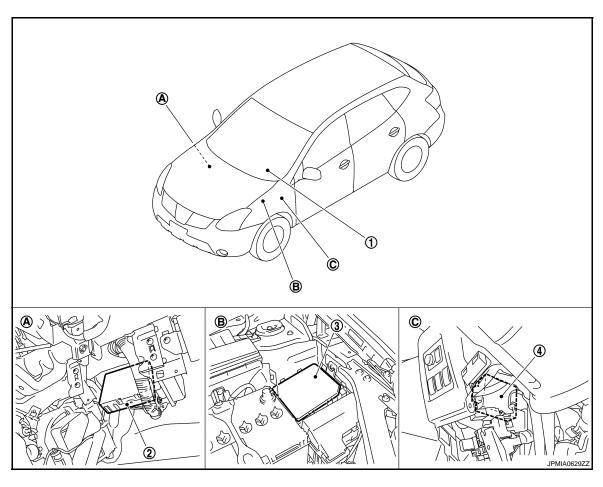
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BCS-15 Revision: 2008 January 2008 Rogue

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Component Parts Location

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- 1. Combination meter
- 4. Intelligent Key unit
- A. Over the glove box
- 2. BCM
- B. Engine room (LH)
- 3. IPDM E/R
- C. Over the instrument lower panel (driver side)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT-III Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-63, "DTC Index".
Data Monitor	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	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

System	CONSULT-III	Diagnosis mode		
System	sub system selection item	Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
_	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
_	FUEL LID*			
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×
Panic alarm system	PANIC ALARM			×

^{*:} This item is displayed, but is not function.

DOOR LOCK

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< FUNCTION DIAGNOSIS >

DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)

INFOID:0000000003123623

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description	
WORK SUPPORT	Changes the setting for each system function	
DATA MONITOR	The BCM input/output signals are displayed	
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM	

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position
PUSH SW ^{*1}	Indicates [ON/OFF] condition of ignition knob switch
KEY ON SW	Indicates [ON/OFF] condition of key switch
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side)
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side)
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch
KEYLESS LOCK*2	Indicates [ON/OFF] condition of lock signal from key fob
KEYLESS UNLOCK*2	Indicates [ON/OFF] condition of unlock signal from key fob
I-KEY LOCK*1	Indicates [ON/OFF] condition of lock signal from Intelligent Key
I-KEY UNLOCK*1	Indicates [ON/OFF] condition of unlock signal from Intelligent Key
KEY CYL LK-SW	Indicates [ON/OFF] condition of lock signal from key cylinder
KEY CYL UN-SW	Indicates [ON/OFF] condition of unlock signal from key cylinder

^{*1:} For the Intelligent Key equipped vehicle.

ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLOCK/DR UNLOCK/OTHER UNLOCK]

WORK SUPPORT

Test item	Description
DOOR LOCK-UNLOCK SET	Select unlock mode can be changed in this mode. Selects ON-OFF of select unlock mode
ANTI-LOCK OUT SET	Key reminder door mode can be changed in this mode. Selects ON-OFF of Key reminder door mode

REAR WINDOW DEFOGGER

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

INFOID:00000000003123630

Data monitor

^{*2:} For the multi remote control system equipped vehicle.

< FUNCTION DIAGNOSIS >

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

ACTIVE TEST

Test Item	Description
REAR DEFOGGER	This test is able to check rear window defogger operation.

BUZZER

BUZZER: CONSULT-III Function (BCM - BUZZER)

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CONSULT-III FUNCTION (BCM - BUZZER)

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

DATA MONITOR

Display item [Unit]	Description
IGN ON SW [On/Off]	Ignition switch (ON) status judged by ignition power supply input.
KEY ON SW [On/Off]	Key switch status.
DOOR SW -DR [On/Off]	Front door switch (driver side) status judged by BCM.
LIGHT SW 1ST [On/Off]	Lighting switch status judged by the lighting switch signal read with combination switch reading function.
BUCKLE SW [On/Off]	Seat belt buckle switch (driver side) status judged by BCM.

ACTIVE TEST

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

INT LAMP

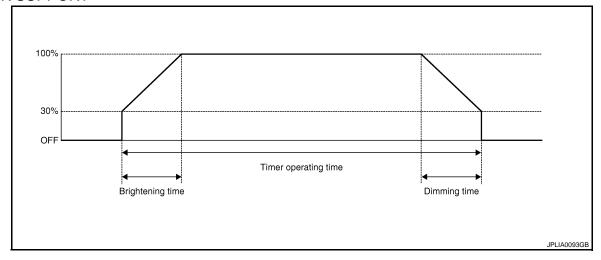
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INT LAMP : CONSULT-III Function (BCM - INT LAMP)

INFOID:0000000003123634

WORK SUPPORT



Service item	Setting item		Setting
SET I/L D-UNLCK INTCON	On*	With the in	nterior room lamp timer function
SET I/L D-UNLER INTCOM	Off	Without the interior room lamp timer function	
	MODE 1	0.5 sec.	
	MODE 2*	1 sec.	
	MODE 3	2 sec.	
ROOM LAMP ON TIME SET	MODE 4	3 sec.	Sets the interior room lamp gradual brightening time.
	MODE 5	4 sec.	
	MODE 6	5 sec.	
	MODE 7	0 sec.	
	MODE 1	0.5 sec.	
	MODE 2*	1 sec.	
	MODE 3	2 sec.	
ROOM LAMP OFF TIME SET	MODE 4	3 sec.	Sets the interior room lamp gradual dimming time.
	MODE 5	4 sec.	
	MODE 6	5 sec.	
	MODE 7	0 sec.	

^{*:} Initial setting

DATA MONITOR

Monitor item [Unit]	Description
IGN ON SW [On/Off]	Ignition switch (ON) status judges from IGN signal (ignition power supply)
KEY ON SW [On/Off]	The switch status input from key switch
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH

< FUNCTION DIAGNOSIS >

Monitor item [Unit]	Description
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH
BACK DOOR SW [On/Off]	The switch status input from back door switch
KEY CYL LK-SW [On/Off]	Lock switch status input from key cylinder switch
KEY CYL UN-SW [On/Off]	Unlock switch status input from key cylinder switch
CDL LOCK SW [On/Off]	Lock switch status input from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status input from door lock and unlock switch
I-KEY LOCK [On/Off]	Lock signal status received from Intelligent Key unit by CAN communication
I-KEY UNLOCK [On/Off]	Unlock signal status received from Intelligent Key unit by CAN communication
KEYLESS LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
KEYLESS UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
INT LAMP	On	Outputs the interior room lamp control signal to turn the interior room lamps ON. [Map lamp, room lamp (when applicable lamps switch is in DOOR position.)]
	Off	Stops the interior room lamp control signal to turn the interior room lamps OFF.
IGN ILLUM	On	Outputs the ignition keyhole illumination control signal to turn ignition keyhole illumination ON.
	Off	Stops the ignition keyhole illumination control signal to turn ignition keyhole illumination OFF.
STEP LAMP TEST	On	NOTE:
	Off	The item is indicated, but not operate.
LUGGAGE LAMP TEST	On	Outputs the luggage room lamp control signal to turn luggage room lamp ON.
	Off	Stops the luggage room lamp control signal to turn luggage room lamp OFF.

MULTIREMOTE ENT

MULTIREMOTE ENT: CONSULT-III Function (BCM - MULTIREMOTE ENT)

INFOID:0000000003123636

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

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< FUNCTION DIAGNOSIS >

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
KEYKESS LOCK	Indicates [ON/OFF] condition of lock signal from key fob.
KEYLESS UNLOCK	Indicates [ON/OFF] condition of unlock signal from key fob.
KEYLESS PANIC	Indicates [ON/OFF] condition of panic alarm signal from key fob.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
RKE LOCK AND UNLOCK	Indicates [ON/OFF] condition of lock and unlock signal from keyfob.
MEMORY 1	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 2	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 3	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 4	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 5	Indicates [ON/OFF] condition of remote controller ID code registration.

ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLOCK/DR UNLOCK OTHER UNLOCK].
FLASHER	This test is able to check flasher operation [LH/RH/OFF].
HORN	This test is able to check horn operation [ON/OFF].

WORK SUPPORT

Test item	Description
HAZARD LAMP SET	Answer back function (hazard) mode can be changed in this mode. For the detail of the setting.
HORN CHIRP	Answer back function (horn) mode can be changed in this mode. For the detail of the setting.
AUTO LOCK SET	Auto door lock time can be changed in this mode. • MODE 1: 1 minute • MODE 2: 2 minutes • MODE 3: 3 minutes • MODE 4: 4 minutes • MODE 5: 5 minutes
PANIC ALRM SET	Panic alarm operation mode can be changed in this mode.

HEADLAMP

HEADLAMP : CONSULT-III Function (BCM - HEAD LAMP)

INFOID:0000000003123632

WORK SUPPORT

< FUNCTION DIAGNOSIS >

Service item	Setting item	Setting
BATTERY SAVER SET	On [*]	With the exterior lamp battery saver function
	Off	Without the exterior lamp battery saver function
	MODE 1	
	MODE 2	
	MODE 3	
HI DELAYOFT	MODE 4	NOTE:
ILL DELAY SET	MODE 5	The item is indicated, but not operate
	MODE 6	
	MODE 7	
	MODE 8	

^{*:} Initial setting

DATA MONITOR

Monitor item [Unit]	Description
IGN ON SW [On/Off]	Ignition switch (ON) status judged from IGN signal (ignition power supply)
ACC SW [On/Off]	Ignition switch (ACC) status judged from ACC signal (ACC power supply)
HI BEAM SW [On/Off]	
HEAD LAMP SW1 [On/Off]	
HEAD LAMP SW2 [On/Off]	Fach quitable status that DCM independence the complication quitable reading functions
LIGHT SW 1ST [On/Off]	Each switch status that BCM judges from the combination switch reading function
PASSING SW [On/Off]	
FR FOG SW [On/Off]	
AUTO LIGHT SW [On/Off]	NOTE:
RR FOG SW [On/Off]	The item is indicated, but not monitored
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH
BACK DOOR SW [On/Off]	The switch status input from back door switch
TURN SIGNAL R [On/Off]	
TURN SIGNAL L [On/Off]	Each switch status that BCM judges from the combination switch reading function

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< FUNCTION DIAGNOSIS >

Monitor item [Unit]	Description
ENGINE RUNNING [On/Off]	The engine status received from ECM with CAN communication
PKB SW [On/Off]	The parking brake switch status received from combination meter with CAN communication
CARGO LAMP SW [On/Off]	NOTE:
OPTICAL SENSOR [V]	The item is indicated, but not monitored

ACTIVE TEST

Test item	Operation	Description
TAIL LAMP	On	Transmits the position light request signal to IPDM E/R with CAN communication to turn the tail lamp ON.
	Off	Stops the tail lamp request signal transmission.
	Hi	Transmits the high beam request signal with CAN communication to turn the headlamp (HI).
HEAD LAMP	Lo	Transmits the low beam request signal with CAN communication to turn the headlamp (LO).
	Off	Stops the high & low beam request signal transmission.
FR FOG LAMP	On	Transmits the front fog lights request signal to IPDM E/R with CAN communication to turn the front fog lamp ON.
	Off	Stops the front fog lights request signal transmission.
DAYTIME RUNNING LIGHT	On	NOTE:
DAT HIME RUNNING LIGHT	Off	The item indicated, but not operate

WIPER

WIPER: CONSULT-III Function (BCM - WIPER)

INFOID:0000000003123637

WORK SUPPORT

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

^{*:}Factory setting

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Ignition switch ON status judged from ignition power supply.
IGN SW CAN [On/Off]	Ignition switch ON status received from IPDM E/R with CAN communication.

< FUNCTION DIAGNOSIS >

Monitor Item [Unit]	Description		
FR WIPER HI [On/Off]			
FR WIPER LOW [On/Off]	Each switch status that BCM judges from the combination switch reading function.		
FR WIPER INT [On/Off]	Latin switch status that Bow judges from the combination switch reading function.		
FR WASHER SW [On/Off]			
INT VOLUME [1 – 7]	Each switch status that BCM judges from the combination switch reading function.		
FR WIPER STOP [On/Off]	Front wiper motor (stop position) status received from IPDM E/R with CAN communication.		
VEHICLE SPEED [km/h]	The value of the vehicle speed signal received from combination meter with CAN communication.		
RR WIPER ON [On/Off]			
RR WIPER INT [On/Off]	Each switch status that BCM judges from the combination switch reading function.		
RR WASHER SW [On/Off]			
RR WIPER STOP [On/Off]	Rear wiper motor (stop position) status input from the rear wiper motor.		
H/L WASH SW [On/Off]	NOTE: The item is indicated, but not monitored.		

ACTIVE TEST

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

AIR CONDITIONER

AIR CONDITIONER: CONSULT-III Function

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DATA MONITOR

Display Item List

Monitor Item [Unit]		Contents
IGN SW	[On/Off]	Displays [ignition switch position (On)/OFF, ACC position (Off)] status as judged form ignition switch signal.
FAN ON SIG	[On/Off]	Displays [FAN (On)/FAN (Off)] status as judged form blower fan motor switch signal.
AIR COND SW	[On/Off]	Displays [COMP (On)/COMP (Off)] status as judged form air conditioner switch signal.

FLASHER

< FUNCTION DIAGNOSIS >

FLASHER: CONSULT-III Function (BCM - FLASHER)

INFOID:0000000003123633

DATA MONITOR

Monitor item [Unit]	Description
IGN ON SW [On/Off]	Ignition switch (ON) status judged from IGN signal (ignition power supply)
HAZARD SW [On/Off]	The switch status input from the hazard switch
TURN SIGNAL R [On/Off]	Each switch condition that BCM judges from the combination switch reading function
TURN SIGNAL L [On/Off]	
BRAKE SW [On/Off]	The switch status input from the stop lamp switch

ACTIVE TEST

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

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY) INFOID-000000003123624

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed

DATA MONITOR

Monitor Item	Condition
PUSH SW	Indicates [ON/OFF] condition of ignition knob switch
I-KEY LOCK	Indicates [ON/OFF] condition of lock signal from Intelligent Key
I-KEY UNLOCK	Indicates [ON/OFF] condition of unlock signal from Intelligent Key
I-KEY TRUNK	This item is indicated, but not monitored
I-KEY PW DWN	This item is indicated, but not monitored
I-KEY PANIC	Indicates [ON/OFF] condition of panic alarm

COMB SW

COMB SW: CONSULT-III Function (BCM - COMB SW)

INFOID:0000000001697958

DATA MONITOR

Monitor item [UNIT]	Description
TURN SIGNAL R [Off/On]	Displays the status of "TURN RH" switch in combination switch judged by the combination switch reading function.
TURN SIGNAL L [Off/On]	Displays the status of the "TURN LH" switch in combination switch judged by the combination switch reading function.

< FUNCTION DIAGNOSIS >

Monitor item [UNIT]	Description	
HI BEAM SW [Off/On]	Displays the status of "HI BEAM" switch in combination switch judged by the combination switch reading function.	Δ
HEAD LAMP SW 1 [Off/On]	Displays the status of "HEADLAMP 1" switch in combination switch judged by the combination switch reading function.	В
HEAD LAMP SW 2 [Off/On]	Displays the status of "HEADLAMP 2" switch in combination switch judged by the combination switch reading function.	
LIGHT SW 1ST [Off/On]	Displays the status of "TAIL LAMP" switch in combination switch judged by the combination switch reading function.	C
PASSING SW [Off/On]	Displays the status of "PASSING" switch in combination switch judged by the combination switch reading function.	
AUTO LIGHT SW [Off/On]	NOTE: The item is indicated, but not monitored.	
FR FOG SW [Off/On]	Displays the status of "FR FOG" switch in combination switch judged by the combination switch reading function.	Е
RR FOG SW [Off/On]	NOTE: The item is indicated, but not monitored.	F
FR WIPER HI [Off/On]	Displays the status of "FR WIPER HI" switch in combination switch judged by the combination switch reading function.	
FR WIPER LOW [Off/On]	Displays the status of "FR WIPER LOW" switch in combination switch judged by the combination switch reading function.	G
FR WIPER INT [Off/On]	Displays the status of "FR WIPER INT" switch in combination switch judged by the combination switch reading function.	-
FR WASHER SW [Off/On]	Displays the status of "FR WASHER" switch in combination switch judged by the combination switch reading function.	
INT VOLUME [1 - 7]	Displays the status of wiper intermittent dial position judged by the combination switch reading function.	
RR WIPER ON [Off/On]	Displays the status of "RR WIPER" switch in combination switch judged by the combination switch reading function.	J
RR WIPER INT [Off/On]	Displays the status of "RR WIPER INT" switch in combination switch judged by the combination switch reading function.	
RR WASHER SW [Off/On]	Displays the status of "RR WASHER" switch in combination switch judged by the combination switch reading function.	K

BCM

BCM: CONSULT-III Function (BCM - BCM)

INFOID:0000000001697959

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WORK SUPPORT

Item	Description
RESET SETTING VALUE	Return a value set with WORK SUPPORT of each system to a default value in factory shipment.

IMMU

IMMU: CONSULT-III Function (BCM - IMMU)

INFOID:0000000003123628

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

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

DATA MONITOR

< FUNCTION DIAGNOSIS >

Monitor item	Content
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.

ACTIVE TEST

Test item	Description
THEFT IND	This test is able to check security indicator operation [ON/OFF].

BATTERY SAVER

BATTERY SAVER : CONSULT-III Function (BCM - BATTERY SAVER)

INFOID:0000000003123635

WORK SUPPORT

Service item	Setting item		Setting
ROOM LAMP TIMER SET	MODE 1*	30 min.	Sets the interior room lamp battery saver timer operating
NOOM LAWF TIMEN SET	MODE 2	60 min.	time.

^{*:} Initial setting

DATA MONITOR

Monitor item [Unit]	Description
IGN ON SW [On/Off]	Ignition switch (ON) status judges from IGN signal (ignition power supply)
KEY ON SW [On/Off]	The switch status input from key switch
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH
BACK DOOR SW [On/Off]	The switch status input from back door switch
KEY CYL LK-SW [On/Off]	Lock switch status input from key cylinder switch
KEY CYL UN-SW [On/Off]	Unlock switch status input from key cylinder switch
CDL LOCK SW [On/Off]	Lock switch status input from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status input from door lock and unlock switch
I-KEY LOCK [On/Off]	Lock signal status received from Intelligent Key unit by CAN communication
I-KEY UNLOCK [On/Off]	Unlock signal status received from Intelligent Key unit by CAN communication
KEYLESS LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
KEYLESS UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

< FUNCTION DIAGNOSIS >

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

^{*:} Each lamp switch is in ON position.

TRUNK

TRUNK: CONSULT-III Function (BCM - TRUNK)

INFOID:0000000003123625

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APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

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

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
PUSH SW ^{*1}	Indicates [ON/OFF] condition of ignition knob switch.
TRNK OPNR SW	Indicates [ON/OFF] condition of back door opener switch.
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h].

^{*1:} For the Intelligent key equipped vehicle.

ACTIVE TEST

Test item	Description
TRUNK/GLASS HATCH	This test is able to check back door opener operation [ON/OFF].

THEFT ALM

THEFT ALM: CONSULT-III Function (BCM - THEFT ALM)

INFOID:0000000003123629

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
KEYKESS LOCK*2	Indicates [ON/OFF] condition of lock signal from key fob.

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^{*2:} For the remote keyless entry system equipped vehicle.

< FUNCTION DIAGNOSIS >

Monitor Item	Condition
KEYLESS UNLOCK*2	Indicates [ON/OFF] condition of unlock signal from key fob.
I-KEY LOCK*1	Indicates [ON/OFF] condition of lock signal from Intelligent Key.
I-KEY UNLOCK*1	Indicates [ON/OFF] condition of unlock signal from Intelligent Key.
TRUNK OPNR SW	Indicates [ON/OFF] condition of back door opener switch.
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.
TRNK OPNR MNTR	NOTE: The item is indicated, but not monitored.
HOOD SW	Indicates [ON/OFF] condition of hood switch.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.
KEY CYL LK-SW	Indicates [ON/OFF] condition of key cylinder switch.
KEY CYL UN-SW	Indicates [ON/OFF] condition of key cylinder switch.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.

^{*1:} For vehicle equipped with Intelligent Key.

ACTIVE TEST

Test item	Description
THEFT IND	This test is able to check security indicator operation [ON/OFF].
VEHICLE SECURITY HORN	This test is able to check horn operation [ON].
HEAD LAMP(HI)	This test is able to check head lamp (HI) operation [ON/OFF].

WORK SUPPORT

Test item	Description	
SECURITY ALARM SET	Vehicle security function mode can be changed in this mode. ON: Vehicle security function is ON. OFF: Vehicle security function is OFF.	
THEFT ALM TRG	The switch which triggered vehicle security system is recorded. This mode can be able to confirm and erase the record of vehicle security system.	

RETAIND PWR

RETAIND PWR : CONSULT-III Function (BCM - RETAINED PWR)

INFOID:0000000003219570

Data monitor

Monitor Item	Description
DOOR SW-DR	Indicates [ON/OFF] condition of driver side door switch.
DOOR SW-AS	Indicates [ON/OFF] condition of passenger side door switch.

SIGNAL BUFFER

^{*2:} For the vehicle equipped with remote key less entry system.

< FUNCTION DIAGNOSIS >

SIGNAL BUFFER: CONSULT-III Function (BCM - SIGNAL BUFFER)

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DATA MONITOR

Monitor item [UNIT]	Description
OIL PRESS SW [Off/On]	Displays the status of oil pressure switch received from IPDM E/R with CAN communication.

ACTIVE TEST

Test item	Operation	Description
OIL PRESSURE SW	On	Transmits the oil pressure switch signal with CAN communication to illuminate the oil pressure warning lamp in the combination meter.
	Off	Stops the oil pressure switch signal transmission.

AIR PRESSURE MONITOR

AIR PRESSURE MONITOR: Diagnosis Description

INFOID:0000000003123639

DESCRIPTION

During driving, the TPMS receives the signal transmitted from the transmitter installed in each wheel, when the tire pressure becomes low. The control unit (BCM) of this system has pressure judgment and trouble diagnosis functions.

When the TPMS detects low inflation pressure or another unusual symptom, the low tire pressure warning lamps in the combination meter comes on.

SELF DIAGNOSTIC PROCEDURE (WITH CONSULT-III)

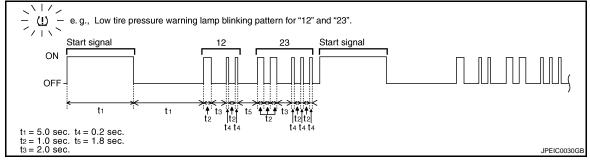
(P) With CONSULT-III

Touch "SELF-DIAG RESULT" display shows malfunction experienced since the last erasing operation. Refer to <u>WT-58</u>, "DTC Index".

SELF DIAGNOSTIC PROCEDURE (WITHOUT CONSULT-III)

₩ Without CONSULT-III

To start the self-diagnostic results mode, ground terminal of the tire pressure warning check connector. The malfunction location is indicated by the low tire pressure warning lamp blinking.



NOTE:

When the low tire pressure warning lamp blinks 5 Hz and continues repeating it, the system is normal.

Blinking pattern	Items	Diagnostic items detected when	Check item
15	Tire pressure value (Front LH)	Front LH tire pressure drops to 182.7 kPa (1.9 kg/cm ² , 26 psi) or less. [NOTE]	
16	Tire pressure value (Front RH)	Front RH tire pressure drops to 182.7 kPa (1.9 kg/cm², 26 psi) or less. [NOTE]	
17	Tire pressure value (Rear RH)	Rear RH tire pressure drops to 182.7 kPa (1.9 kg/cm ² , 26 psi) or less. [NOTE]	_
18	Tire pressure value (Rear LH)	Rear LH tire pressure drops to 182.7 kPa (1.9 kg/cm ² , 26 psi) or less. [NOTE]	

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< FUNCTION DIAGNOSIS >

Blinking pattern	Items	Diagnostic items detected when	Check item	
21	Transmitter no data (Front LH)	Data from front LH transmitter can not be receive.		
22	Transmitter no data (Front RH)	Data from front RH transmitter can not be receive.	W/T 40	
23	Transmitter no data (Rear RH)	Data from Rear RH transmitter can not be receive.	<u>WT-16</u>	
24	Transmitter no data (Rear LH) Data from Rear LH transmitter can not be receive.			
31	Transmitter checksum error (Front LH)	Checksum data from front LH transmitter is malfunctioning.		
32	Transmitter checksum error (Front RH)	Checksum data from front RH transmitter is malfunctioning.	WT 10	
33	Transmitter checksum error (Rear RH) Checksum data from rear RH transmitter is malfunctioning.		<u>WT-19</u>	
34	Transmitter checksum error (Rear LH)	Checksum data from rear RH transmitter is malfunctioning.		
35	Transmitter pressure data error (Front LH)	Air pressure data from front LH transmitter is malfunction.		
36	Transmitter pressure data error (Front RH)	Air pressure data from front RH transmitter is malfunction.	WT 22	
37	7 Transmitter pressure data error (Rear RH) Air pressure data from rear RH transmitter is malfunction.		<u>WT-22</u>	
38	Transmitter pressure data error (Rear LH)	Air pressure data from rear LH transmitter is malfunction.		
41	Transmitter function code error (Front LH)	Function code data from front LH transmitter is malfunction.		
42	Transmitter function code error (Front RH)	Function code data from front RH transmitter is malfunction.	NAT OA	
43	Transmitter function code error (Rear RH)	Function code data from rear RH transmitter is malfunction.	<u>WT-24</u>	
44	Transmitter function code error (Rear LH)	Function code data from rear LH transmitter is malfunction.		
45	Transmitter battery voltage low (Front LH)	Battery voltage of front LH transmitter drops.		
46	Transmitter battery voltage low (Front RH)	Battery voltage of front RH transmitter drops.	WT 27	
47	Transmitter battery voltage low (Rear RH)	Battery voltage of rear RH transmitter drops.	drops.	
48	Transmitter battery voltage low (Rear LH)	Battery voltage of rear LH transmitter drops.		
52	Vehicle speed signal error	Speed signal is not detected.	<u>WT-30</u>	
54	Ignition line	BCM ignition line is malfunction.	BCS- 36	
No blinking	Tire pressure warning check switch	Tire pressure warning switch circuit is open.	_	

NOTE: Standard air pressure is for 230 kPa (2.3 kg/cm²,33 psi) vehicles

ERASE SELF-DIAGNOSIS

With CONSULT-III

- Perform applicable inspection of malfunctioning item and then repair or replace.
 Turn ignition switch "ON" and select "SELF-DIAG RESULTS" mode for "AIR PRESSURE MONITOR" with CONSULT-III.
- Touch "ERASE" on CONSULT-III screen to erase memory.

Without CONSULT-III

< FUNCTION DIAGNOSIS >

- In order to make it easier to find the cause of hard-to-duplicate malfunctions, malfunction information is stored into the control unit as necessary during use by the user. This memory is not erased no matter how many times the ignition switch is turned "ON" and "OFF".
- However, this information is erased by turning ignition switch "OFF" after performing self-diagnostic or by erasing the memory using the CONSULT-III.

AIR PRESSURE MONITOR: CONSULT-III Function (BCM - AIR PRESSURE MONI-TOR) INFOID:0000000003123640

WORK SUPPORT MODE

ID Read

The registered ID number is displayed.

ID Regist

Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".

SELF-DIAG RESULTS MODE

Operation Procedure

Refer to WT-58, "DTC Index".

DATA MONITOR MODE

Screen of data monitor mode is displayed.

NOTE:

When malfunction is detected, CONSULT-III perform REAL-TIME DIAGNOSIS.

Also, any malfunction detected while in this mode will be displayed at real time.

Display item list

Monitor	Condition	Specification
VEHICLE SPEED	Drive vehicle	Vehicle speed (km/h or MPH)
AIR PRESS FL AIR PRESS FR AIR PRESS RR AIR PRESS RL	 Drive vehicle for a few minutes. or Ignition switch ON and transmitter activation tool is transmitting activation signals. 	Tire pressure (kPa or Psi)
ID REGST FL ID REGST FR ID REGST RR ID REGST RL		Registration ID : DONE No registration : YET
WARNING LAMP	Ignition switch ON	Low tire pressure warning lamp on: ON Low tire pressure warning lamp off: OFF
BUZZER		Buzzer in combination meter on: ON Buzzer in combination meter off: OFF

NOTE:

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

ACTIVE TEST MODE

NOTE:

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

TEST ITEM LIST

Test item	Content	
WARNING LAMP	This test is able to check to check that the low tire pressure warning lamp turns on.	
ID REGIST WARNING	This test is able to check to check that the buzzer sounds or the low tire pressure warning lamp turns on.	
FLAT TIRE WARNING	This test is able to check to check that the buzzer sounds.	
HORN	This test is able to check to check that the horn sounds.	

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Test item	Content	
FLASHER	his test is able to check to check that each turn signal lamp turns on.	
RUNFLAT TIRE W/L	NOTE: This item is displayed, but cannot be use this item.	

PANIC ALARM

PANIC ALARM: CONSULT-III Function (BCM - PANIC ALARM)

INFOID:0000000003219581

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM

ACTIVE TEST

Test item	Description
HEAD LAMP (HI) This test is able to check head lamp (hi) operation [ON/OFF]	
PANIC ALARM	This test is able to check panic alarm operation [ON/OFF]

U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:0000000001697965

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-23, "CAN Communication Signal Chart".

DTC Logic INFOID:0000000001697966

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000001697967

1.PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000" displayed?

YES >> Refer to LAN-14, "Trouble Diagnosis Flow Chart".

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

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C1735 IGN CIRCUIT OPEN

< COMPONENT DIAGNOSIS >

C1735 IGN CIRCUIT OPEN

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
C1735	IGN CIRCUIT OPEN	Detected following signals are different for 2 seconds; Ignition switch ON signal inputted from ignition switch Ignition relay status signal received from IPDM E/R with CAN communication	Harness or connector (Ignition power supply circuit) BCM IPDM E/R

NOTE:

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

DTC CONFIRMATION PROCEDURE

1.DTC CONFIRMATION

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

Is any DTC detected?

YES >> Refer to BCS-36, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000001751531

1. CHECK BCM IGNITION POWER SUPPLY CIRCUIT

Check BCM ignition power supply circuit. Refer to BCS-37, "Diagnosis Procedure".

Is the circuit normal?

YES >> GO TO 2

NO >> Repair the malfunctioning part.

2.CHECK IPDM E/R POWER SUPPLY CIRCUIT

Check IPDM E/R power supply circuit. Refer to PCS-15, "Diagnosis Procedure".

Is the circuit normal?

YES >> GO TO 3.

NO >> Repair the malfunctioning part.

3.CHECK IPDM E/R IGNITION RELAY STATUS

(E)CONSULT-III DATA MONITOR

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

Monitor item	Condition		Monitor status
IGN RLY	Ignition switch	OFF	Off
		ON	On

Is the item status normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".

NO >> Replace IPDM E/R. Refer to PCS-28, "Exploded View".

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000001697970

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1. CHECK FUSES AND FUSIBLE LINK

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

Signal name	Fuses and fusible link No.
Battery power supply	10
	J
ACC power supply	20
Ignition power supply	1

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

Terminals		lgnition switch position		neition	
(+)			ignition switch position		
BCM		(-)	OFF	F ACC	ON
Connector	Terminal		OFF	ACC	ON
M67	70	Ground	Battery	Battery	Battery
IVIO	57		voltage	voltage	voltage
M65	11		Approx. 0 V	Battery voltage	Battery voltage
IVIOO	38		Approx. 0 V	Approx. 0 V	Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	СМ		Continuity
Connector Terminal		Ground	Continuity
M67	67		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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COMBINATION SWITCH OUTPUT CIRCUIT

< COMPONENT DIAGNOSIS >

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000001697971

1. CHECK OUTPUT 1 - 5 CIRCUIT FOR OPEN

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

System	BCM		Combinat	Continuity	
Oystem	Connector	Terminal	Connector	Terminal	Continuity
OUTPUT 1		36		1	
OUTPUT 2		35		2	
OUTPUT 3	M65	34	M27	3	Existed
OUTPUT 4		33		4	
OUTPUT 5		32		5	

Does continuity exist?

YES >> GO TO 2.

NO >> Repair harnesses or connectors.

2. CHECK OUTPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

System	BCM			Continuity
System	Connector Terminal			Continuity
OUTPUT 1		36		
OUTPUT 2		35	Ground	
OUTPUT 3	M65	34		Not existed
OUTPUT 4		33		
OUTPUT 5		32		

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> GO TO 3.

3.CHECK BCM OUTPUT VOLTAGE

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

System	(+)		(-)	Voltage	
System	BCM			(Approx.)	
	Connector	Terminal			
OUTPUT 1		36			
OUTPUT 2		35	Ground	Refer to BCS-	
OUTPUT 3	M65	34		43, "Refer-	
OUTPUT 4		33		ence Value".	
OUTPUT 5		32			

Is the measurement value normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to BCS-67, "Exploded View".

COMBINATION SWITCH OUTPUT CIRCUIT

< COMPONENT DIAGNOSIS >	
4.CHECK COMBINATION SWITCH	Δ
Check combination switch. Refer to BCS-42, "Description".	A
Is the check result normal? YES >> Replace BCM. Refer to BCS-67, "Exploded View". NO >> Replace the combination switch (applicable parts).	В
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COMBINATION SWITCH INPUT CIRCUIT

< COMPONENT DIAGNOSIS >

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000001697972

1. CHECK INPUT 1 - 5 CIRCUIT FOR OPEN

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

System	BCM		Combinat	Continuity	
System	Connector	Terminal	Connector	Terminal	Continuity
INPUT 1		6		6	
INPUT 2		5		7	
INPUT 3	M65	4	M27	10	Existed
INPUT 4		3		9	
INPUT 5		2		8	

Does continuity exist?

YES >> GO TO 2.

NO >> Repair harnesses or connectors.

2.CHECK INPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

System	В	СМ		Continuity
System	Connector Terminal			Continuity
INPUT 1		6		
INPUT 2		5	Ground	
INPUT 3	M65	4		Not existed
INPUT 4		3		
INPUT 5		2		

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> GO TO 3.

3. CHECK BCM INPUT SIGNAL

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

System	(+)		(-)	Voltage
System	BCM			(Approx.)
	Connector	Terminal		
INPUT 1		6		
INPUT 2		5	Ground	Refer to BCS-
INPUT 3	M65	4		43, "Refer-
INPUT 4		3		ence Value".
INPUT 5		2		

Is the measurement value normal?

Yes >> Replace BCM. Refer to BCS-67, "Exploded View".

COMBINATION SWITCH INPUT CIRCUIT	
< COMPONENT DIAGNOSIS >	
No >> GO TO 4.	٨
4.CHECK COMBINATION SWITCH	Α
Check combination switch. Refer to BCS-42, "Description".	
Is the check result normal?	В
YES >> Replace BCM. Refer to <u>BCS-67</u> , " <u>Exploded View</u> ". NO >> Replace combination switch (applicable parts).	
NO >> Neplace combination switch (applicable parts).	С
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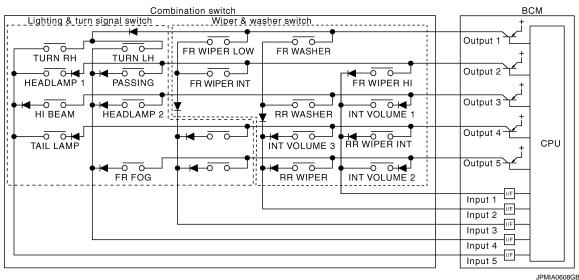
COMBINATION SWITCH

Description INFOID:000000001697973

COMBINATION SWITCH MATRIX

Combination switch consists of INPUT circuit and OUTPUT circuit.

Combination switch circuit



Combination switch OUTPUT-INPUT system list

	on a matter of the first of the						
System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5		
OUTPUT 1	_	FR WASHER	FR WIPER LOW	TURN LH	TURN RH		
OUTPUT 2	FR WIPER HI	_	FR WIPER INT	PASSING	HEADLAMP 1		
OUTPUT 3	INT VOLUME 1	RR WASHER	_	HEADLAMP 2	HI BEAM		
OUTPUT 4	RR WIPER INT	INT VOLUME 3	_	_	TAIL LAMP		
OUTPUT 5	INT VOLUME 2	RR WIPER	_	FR FOG	_		

NOTE:

Headlamp has a dual system switch.

Diagnosis Procedure

INFOID:0000000001697974

1. CHECK LIGHT & TURN SIGNAL SWITCH

Check operation with normal light & turn signal switch installed.

Does it operate normally?

YES >> Replace light & turn signal switch.

NO >> GO TO 2.

2.CHECK WIPER & WASHER SWITCH

Check operation with normal wiper & washer switch installed.

Does it operate normally?

YES >> Replace wiper & washer switch.

NO >> GO TO 3.

3.CHECK SWITCH BASE (SPIRAL CABLE)

Check operation with normal switch base (spiral cable) installed.

Does it operate normally?

YES >> Replace switch base (spiral cable).

NO >> Combination switch is normal.

< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ICNI ONI SW	Ignition switch OFF or ACC	Off
IGN ON SW	Ignition switch ON	On
KEY ON CW	Mechanical key is removed from key cylinder	Off
KEY ON SW	Mechanical key is inserted to key cylinder	On
ODL LOCK OW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
D00D 0W DD	Driver's door closed	Off
DOOR SW-DR	Driver's door opened	On
D00D 0W 40	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOD OW DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOD OW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DAOK BOOD 0W	Back door closed	Off
BACK DOOR SW	Back door opened	On
1/5/ 0/4 11/ 0/4/	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
1/E// 0// 1/N 0/M	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
1/5// 500 00//	"LOCK" button of key fob is not pressed	Off
KEYLESS LOCK	"LOCK" button of key fob is pressed	On
VEV4 500 LINII 00V	"UNLOCK" button of key fob is not pressed	Off
KEYLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
L KEY LINILOCK	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
ACC ON 6141	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE OM	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
LICHT CW 4CT	Lighting switch OFF	Off
LIGHT SW 1ST	Lighting switch 1ST	On

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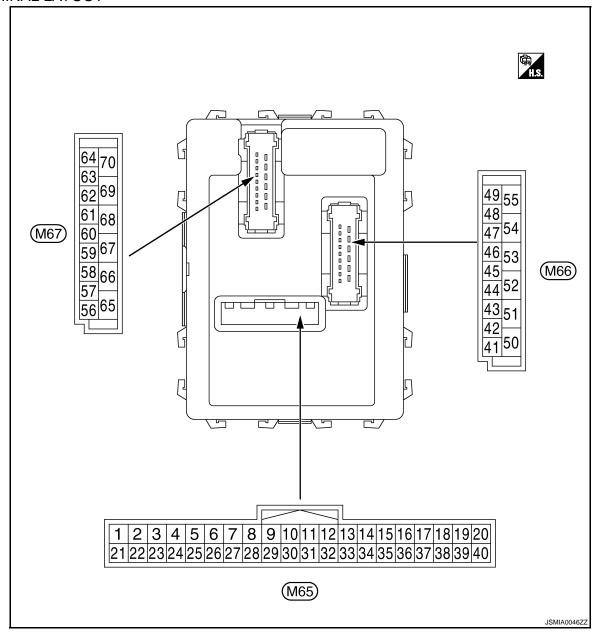
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Monitor Item	Condition	Value/Status
DUCKI E CW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
BUCKLE SW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
1/E)/ E00 DANIO	PANIC button of key fob is not pressed	Off
KEYLESS PANIC	PANIC button of key fob is pressed	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off
TRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
RRE LOR-UNLOR	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
DVE VEED LINEV	UNLOCK button of key fob is not pressed	Off
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
LUDEAN OW	Lighting switch OFF	Off
HI BEAM SW	Lighting switch HI	On
	Lighting switch OFF	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Lighting switch OFF	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
AUTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	Turn signal switch OFF	Off
TURN SIGNAL R	Turn signal switch RH	On
	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
	Engine stopped	Off
ENGINE RUN	Engine running	On
	Parking brake switch is OFF	Off
PKB SW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	0 V
ICNI SIM CANI	Ignition switch OFF or ACC	Off
IGN SW CAN	Ignition switch ON	On
ED \\(\(\)\(\)	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On
	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On

Monitor Item	Condition	Value/Status		
R WIPER INT	Front wiper switch OFF	Off		
R WIPER INT	Front wiper switch INT	On		
R WASHER SW	Front washer switch OFF	Off		
R WASHER SW	Front washer switch ON	On		
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7		
D WIDED CTOD	Any position other than front wiper stop position	Off		
R WIPER STOP	Front wiper stop position	On		
EHICLE SPEED	While driving	Equivalent to speedometer reading		
D WIDED ON	Rear wiper switch OFF	Off		
R WIPER ON	Rear wiper switch ON	On		
D WIDED INT	Rear wiper switch OFF	Off		
R WIPER INT	Rear wiper switch INT	On		
ID MACHED CW	Rear washer switch OFF	Off		
R WASHER SW	Rear washer switch ON	On		
D WIDED OTOD	Rear wiper stop position	Off		
R WIPER STOP	Other than rear wiper stop position	On		
R WIPER STP2	NOTE: The item is indicated, but not monitored.	Off		
/L WASH SW	NOTE: The item is indicated, but not monitored.	Off		
HAZARD SW	Hazard switch OFF	Off		
AZAIND SW	Hazard switch ON	On		
RAKE SW	Brake pedal is not depressed	Off		
RAKE SW	Brake pedal is depressed	On		
AN ON SIC	Blower fan motor switch OFF	Off		
AN ON SIG	Blower fan motor switch ON (other than OFF)	On		
IR COND SW	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off		
IIR COND SW	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On		
KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off		
KEY PW DWN	UNLOCK button of Intelligent Key is not pressed	Off		
ALTI VV DVVIN	UNLOCK button of Intelligent Key is pressed and held	On		
KEY PANIC	PANIC button of Intelligent Key is not pressed	Off		
NL I FAINIC	PANIC button of Intelligent Key is pressed	On		
USH SW	Return to ignition switch to "LOCK" position	Off		
03H 3W	Press ignition switch	On		
DNIK ODNID OW	When back door opener switch is not pressed	Off		
RNK OPNR SW	When back door opener switch is pressed	On		
RUNK CYL SW	NOTE: The item is indicated, but not monitored.	Off		
OOD SW	Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed	Off		
	Open the hood	On		

Monitor Item	Condition	Value/Status
OIL PRESS SW	Ignition switch OFF or ACC Engine running	Off
	Ignition switch ON	On
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
D REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGGITEI	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGI FRI	ID of front RH tire transmitter is not registered	Yet
D REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGGT KKT	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID REGGI REI	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
WAKNING LAWP	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
JULLEN	Tire pressure warning alarm is sounding	On

TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to BCS-26, "COMB SW: CONSULT-III Function (BCM - COMB SW)".
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to BCS-9, "System Diagram".

	nal No.	Description				Value
(Wire	color)	Signal name	Input/	•		(Approx.)
+	_	0 .g. a a	Output			
1	Ground	Ignition key hole illu-	Output	Ignition key hole	OFF	Battery voltage
(V)	Ciodila	mination control	Catput	illumination	ON	0 V

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	nal No. color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	0 V
					Turn signal switch RH	
					Lighting switch HI	(V) 15
2 (G)	2 (G) Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermit-	Lighting switch 1ST	10 5 0 ++10ms PKIB4959J 1.0 V
			tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 +-10ms PKIB4953J 2.0 V	
					All switch OFF	0 V
		round Combination switch INPUT 4	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch LH	0 0
					Lighting switch PASS	(<u>v)</u>
3 (Y)	Ground				Lighting switch 2ND	15 10 5 0 +-10ms PKIB4959J 1.0 V
, ,					Front fog lamp switch ON	(V) 15 10 5 0 ++10ms PKIB4955J 0.8 V
					All switch OFF	0 V
					Front wiper switch LO	
				Combination	Front wiper switch MIST	(V) 15
4 (W)	Ground	Combination switch INPUT 3	Input	switch (Wiper intermittent dial 4)	Front wiper switch INT	10 5 0 ++10ms PKIB4959J
						1.0 V

Terminal No. (Wire color)					Value	
+	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch (Wiper intermittent dial 4)	(V)
					Rear washer ON (Wiper intermittent dial 4)	15 10 5
					Any of the condition below with all switch OFF	++10ms
5	Ground	Combination switch	Input	Combination	Wiper intermittent dial 1Wiper intermittent dial 5	PKIB4959J
(R)	Cround	INPUT 2	mpat	switch	Wiper intermittent dial 6	1.0 V
						(V) 15 10
					Rear wiper switch ON (Wiper intermittent dial 4)	5 0
					(wiper intermittent dial 4)	+-+10ms
						PKIB4955J 0.8 V
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	(V) 15
					Rear wiper switch INT (Wiper intermittent dial 4)	10
						0 → +10ms
					Wiper intermittent dial 3 (All switch OFF)	PKIB4959J
						1.0 V
6		Combination switch		Combination	A Col P.C I . I	(V) 15
(P)	Ground	INPUT 1	Input	switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1	10 5 0
					Wiper intermittent dial 2	++10ms
						РКIВ4952J 1.7 V
						(V) 15
					Any of the condition below with all switch OFF	10 5
				 With all switch OFF Wiper intermittent dial 6 Wiper intermittent dial 7 	0	
				viipoi intorrintorit diai 7	PKIB4955J	
						0.8 V

	nal No. color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
7 (L)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylinder switch	NEUTRAL position	(V) 15 10 5 0
					UNLOCK position	0 V
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylinder switch	NEUTRAL position	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V
					LOCK position	0 V
9		0,	1	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(R)	Ground	Stop lamp switch	Input	switch	ON (Brake pedal is depressed)	Battery voltage
10	Ground	Rear window defog-	Input	Rear window	Not pressed	Battery voltage
(SB)		ger switch		defogger switch	Pressed	0 V
11 (SB)	Ground	Ignition switch ACC	Input	Ignition switch O		0 V
12 (P)	Ground	Passenger door switch	Input	Ignition switch At	OFF (When passenger door closed)	Battery voltage (V) 10 5 0 10 10 5 10 10 5 10 10
					ON (When passenger door opened)	0 V
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) ₁₅ 10 5 0 *** 10ms JPMIA0587GB 8.0 - 8.5 V
					ON (When rear door RH opened)	0 V

< ECU DIAGNOSIS >

	nal No. color)	Description			Condition	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	,
15* ¹ (O)	Ground	TPMS mode trigger switch	Input	Ignition switch OFF		(V) 15 10 5 0 JPMIA0588GB 1.5 V	(
18* ¹ (O)	Ground	Remote keyless en- try receiver ground	Input	Ignition switch O	N	0 V	
				Without Intelligent Key system	At any condition	5 V	
19* ¹ (V)	Ground	Remote keyless en- try receiver power supply	Input	With Intelligent	Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V	
				Key system	3 seconds or later after ig- nition switch OFF to ON	5 V	(
				Without Intelligent Key system	At any condition	(V) 15 10 15	1
20* ¹ (GR)	Ground	Remote keyless entry receiver signal	Input		Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V	
				With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	(V) 15 10 5 0 JPMIA0589GB NOTE: The wave form changes accord-	В
21 (G)	Ground	Immobilizer anten- na signal (Clock)	Input/ Output	Ignition switch O	FF	ing to signal-receiving condition. Battery voltage	

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	Terminal No. Description (Wire color)				Value	
+ (VVire	e color)	Signal name	Input/ Output	Condition		(Approx.)
					ON	0 V
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) ₁₅ 10 5 0 •••1s
					OFF	12.0 V
25		Immobilizer anten-	Input/		OFF	Battery voltage
(BR)	Ground	na signal (Rx, Tx)	Output	Ignition switch O	FF	Battery voltage
				Ignition switch OFF		
27 (Y)	Ground	nd A/C switch	Input	Input Ignition switch ON	A/C switch OFF	(V) ₁₅ 10 5 0
					A/C switch ON	0 V
				Ignition switch O	FF	
28 (LG)	Ground	Blower fan switch	Input	Ignition switch ON	Blower fan switch OFF	(V) ₁₅ 10 5 0 + 10ms JPMIA0592GB 7.0 - 7.5 V
					Blower fan switch ON	0 V
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage
(W)	Cibana	azara ovitori	put	. ALGIG OWITOIT	ON	0 V
30 (G)	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage
(G)		switch	-	opener switch	Pressed	0 V

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	А
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ***10ms PKIB4960J 7.2 V	В
32 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4) Rear wiper switch ON	(V) 15 10	Е
					(Wiper intermittent dial 4) Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	→ 10ms PKIB4956J 1.0 V	F
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J	Н
33 (GR)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	7.2 V	J
					Rear wiper switch INT (Wiper intermittent dial 4)	10	K
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	0 → +10ms PKIB4958J 1.2 V	L

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	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 → 10ms PKIB4960J 7.2 V
34 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10
					Rear washer switch ON (Wiper intermittent dial 4)	0
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J 1.2 V
		Combination switch OUTPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	(V) 15 10 5 0 +-10ms PKIB4960J
35 (B)	Ground				Lighting switch 2ND	7.2 V
					Lighting switch PASS	(V) 15
					Front wiper switch INT	10
					Front wiper switch HI	++10ms PKIB4958J
36		Combination switch		Combination switch	All switch OFF	(V) 15 10 5 0 → +10ms PKIB4960J 7.2 V
(V)	Ground	OUTPUT 1	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10
				tent dial 4)	Turn signal switch LH Front wiper switch LO	
					(Front wiper switch MIST)	→ 10ms
					Front washer switch ON	РКІВ4958J 1.2 V
	1					· ·= ·

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
37	Ground	Key switch	Key switch Input		al key into ignition key cylin-	Battery voltage	
(LG) Glound Rey switch		Noy Switch	прис	Remove mechai cylinder	nical key from ignition key	0 V	
38	Ground	Ignition switch ON	Input	Ignition switch C		0 V	
(G)		9		Ignition switch C	N or START	Battery voltage	
39 (L)	Ground	CAN-H	Input/ Output		_	_	
40 (P)	Ground	CAN-L	Input/ Output		_	_	
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) ₁₅ 10 5 0 ++10ms JPMIA0593GB 9.5 - 10.0 V	
					ON (When back door opened)	0 V	
44				Ignition switch	Rear wiper stop position	0 V	
(B)	Ground	Rear wiper auto stop	Input	ON	Any position other than rear wiper stop position	Battery voltage	
45 (P)	Ground	Door lock and unlock switch LOCK signal	Input	Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0 ++10ms JPMIA0591GB 1.6 V	
					LOCK position	0 V	
46 (BR) Ground		Door lock and unlock switch UNLOCK sig- nal	Input	Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1	
						1.6 V	
					UNLOCK position	0 V	

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	nal No.	Description				Value	
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) ₁₅ 10 5 0 + 10ms JPMIA0587GB 8.0 - 8.5 V	
					ON (When driver door opened)	0 V	
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) ₁₅ 10 5 0 + 10ms JPMIA0594GB 8.5 - 9.0 V	
					ON (When rear door LH opened)	0 V	
49	Ground	Back door lamp con-	Output	Back door lamp switch DOOR	Back door is closed (Back door lamp turns OFF)	Battery voltage	
(L)		trol		position	Back door is opened (Back door lamp turns ON)	0 V	
53	Ground	Back door open	Output	Back door	Not pressed (Back door actuator is activated)	0 V	
(V)				opener switch	Pressed (Back door actuator is activated)	Battery voltage	
55 (SB)	Ground	Rear wiper motor	Output	Ignition switch ON	Rear wiper switch OFF	0 V	
					Rear wiper switch ON interior room lamp battery	Battery voltage 0 V	
56 (Y)	Ground	Interior room lamp power supply Output			ime ter passing the interior room er operation time	Battery voltage	
57 (G)	Ground	Battery power sup- ply	Input	Ignition switch OFF		Battery voltage	
59	Ground	Driver door UN- LOCK	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage	
(L)		LOCK			Other then UNLOCK (Actuator is not activated)	0 V	

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description			O a little a	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	/ \
					Turn signal switch OFF	0 V	В
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 PKIC6370E 6.0 V	C
					Turn signal switch OFF	0 V	Е
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 18 18 18 PKIC6370E	F
63	Ground	Interior room lamp	Output	Interior room	OFF	Battery voltage	Н
(R)	Cround	timer control	Odipat	lamp	ON	0 V	
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage	I
(V)	Ground	7 til doord Edort	Output	7 til doors	Other then LOCK (Actuator is not activated)	0 V	
66	Ground	Passenger door and	Quitnut	Passenger door	UNLOCK (Actuator is activated)	Battery voltage	J
(G)	Ground	rear door UNLOCK	Output	and rear door	Other then UNLOCK (Actuator is not activated)	0 V	K
67 (B)	Ground	Ground	Output	Ignition switch O	N	0 V	
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch O	N	Battery voltage	L
69 (R)* ² (P)* ³	Ground	P/W power supply (BAT)	Output	Ignition switch O	FF	Battery voltage	BC
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage	N

NOTE:

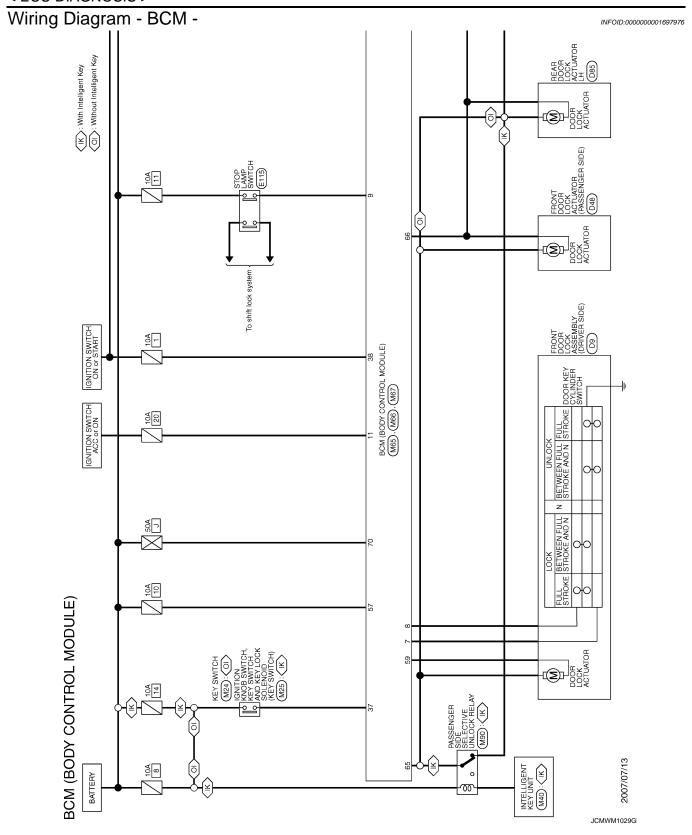
- *1: Except for Mexico
- *2: Without anti-pinch system
- *3: With anti-pinch system

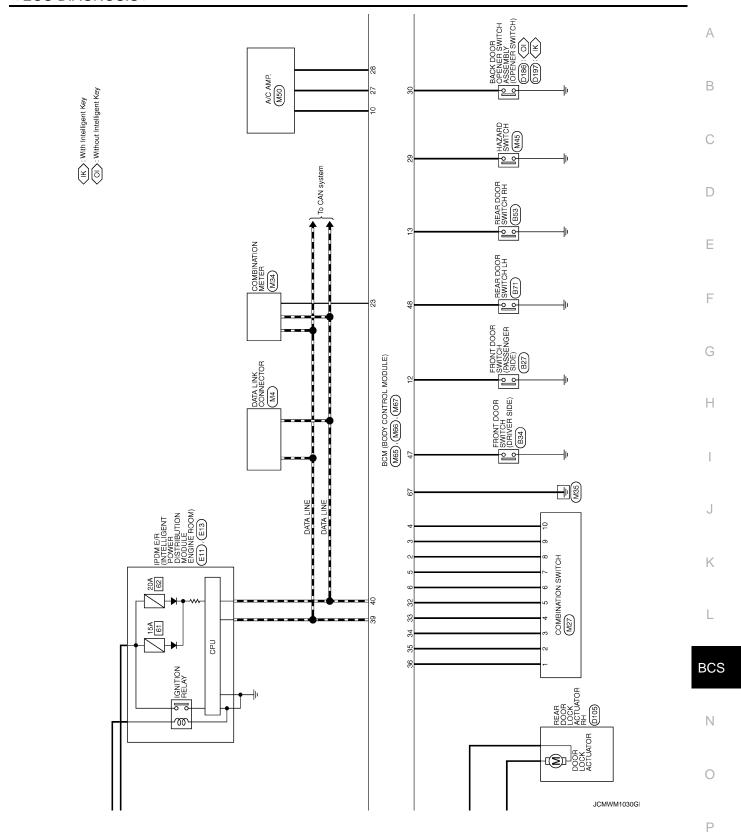
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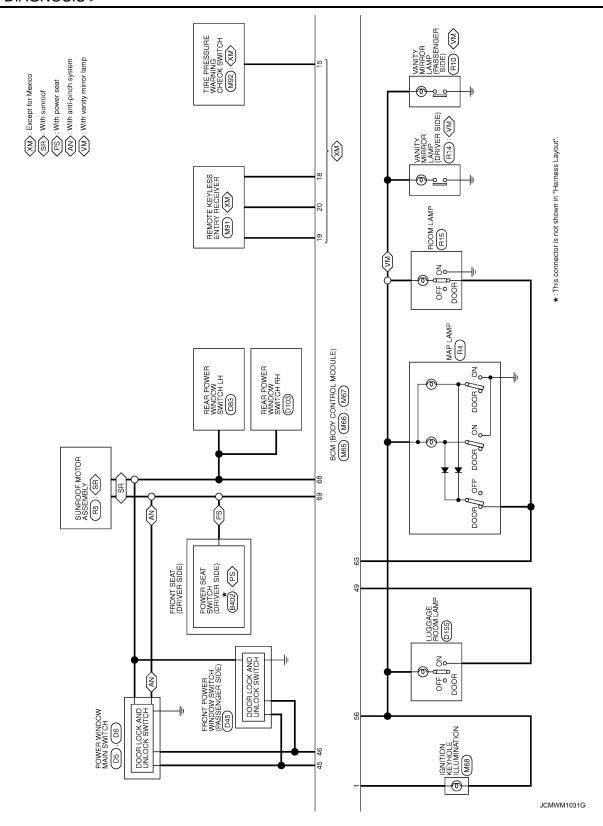
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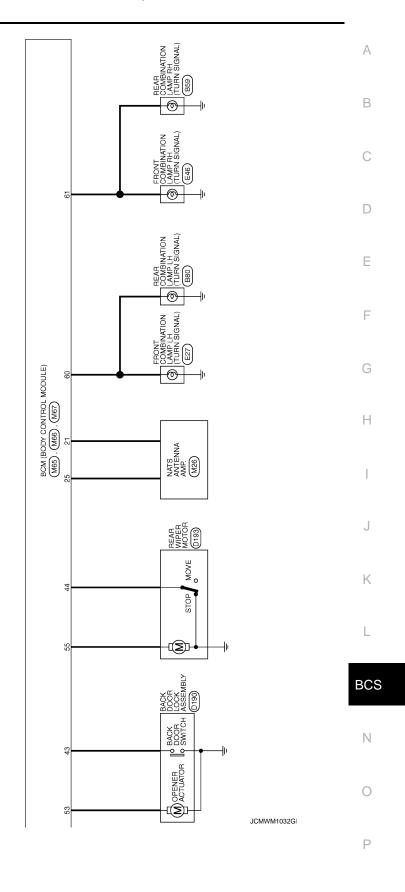
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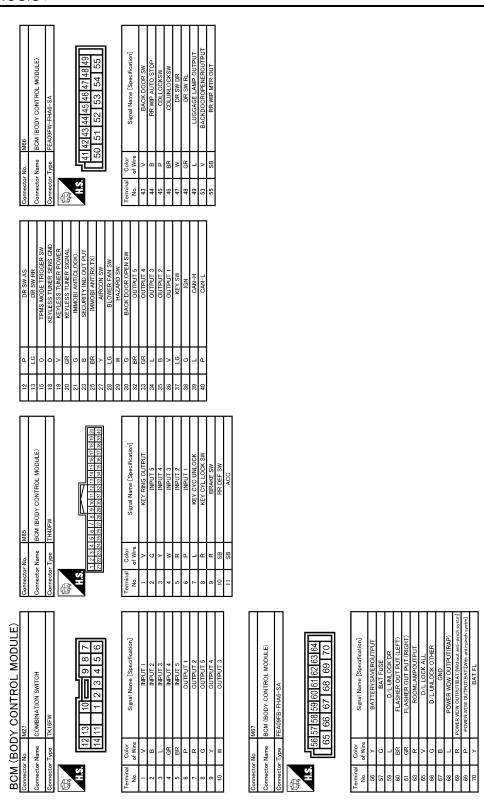
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JCMWM1033G

Fail Safe

REAR WIPER MOTOR PROTECTION

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

Condition of cancellation

< ECU DIAGNOSIS >

- Pass more than 1 minute after the rear wiper stop.
- Turn rear wiper switch OFF.
- Operate the rear wiper switch or rear washer switch.

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

DTC Inspection Priority Chart

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Priority	DTC	•
1	U1000: CAN COMM CIRCUIT	Е
2	C1735: IGN CIRCUIT OPEN	-
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL	F
	 C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL 	G
	C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR	Н
3	 C1715: [CHECKSUM ERR] RL C1716: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR 	I
	C1719: [PRESS DATA ERR] RL C1720: [CODE ERR] FL C1721: [CODE ERR] FR C1722: [CODE ERR] RR	J
	C1723: [CODE ERR] RL C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR	K
	C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1729: VHCL SPEED SIG ERR	L

DTC Index INFOID:0000000001697979

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 \rightarrow ON again.

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

DTC	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	BCS-35
C1704: LOW PRESSURE FL	X	
C1705: LOW PRESSURE FR	×	WT-14
C1706: LOW PRESSURE RR	X	<u>W1-14</u>
C1707: LOW PRESSURE RL	X	

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DTC	Tire pressure monitor warning lamp ON	Reference		
C1708: [NO DATA] FL	×			
C1709: [NO DATA] FR	×	NAT 40		
C1710: [NO DATA] RR	×	- <u>WT-16</u>		
C1711: [NO DATA] RL	×	=		
C1712: [CHECKSUM ERR] FL	×			
C1713: [CHECKSUM ERR] FR	×	WT-19		
C1714: [CHECKSUM ERR] RR	×			
C1715: [CHECKSUM ERR] RL	×	-		
C1716: [PRESS DATA ERR] FL	×			
C1717: [PRESS DATA ERR] FR	×	WT 22		
C1718: [PRESS DATA ERR] RR	×	<u>WT-22</u>		
C1719: [PRESS DATA ERR] RL	×	=		
C1720: [CODE ERR] FL	×			
C1721: [CODE ERR] FR	×	WT 24		
C1722: [CODE ERR] RR	×	- <u>WT-24</u>		
C1723: [CODE ERR] RL	×	=		
C1724: [BATT VOLT LOW] FL	_			
C1725: [BATT VOLT LOW] FR	_	WT 27		
C1726: [BATT VOLT LOW] RR	_	- <u>WT-27</u>		
C1727: [BATT VOLT LOW] RL	_			
C1729: VHCL SPEED SIG ERR	×	<u>WT-30</u>		
C1735: IGN CIRCUIT OPEN	_	BCS-36		

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

FOR MEXICO

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

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

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COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table

- 1. Perform "Data Monitor" of CONSULT-III to check for any malfunctioning item.
- 2. Check the malfunction combinations.

Malfunction item: \times

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

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

Malfunction combination	Malfunctioning part	Repair or replace					
А	Combination switch "OUTPUT 1" circuit						
В	Combination switch "OUTPUT 2" circuit						
С	Combination switch "OUTPUT 3" circuit	Inspect the combination switch output circuit applicable to the malfunction ing part. Refer to BCS-38, "Diagnosis Procedure".					
D	Combination switch "OUTPUT 4" circuit	ing para resid to <u>500 cc, Biagrissis resocute</u> .					
Е	Combination switch "OUTPUT 5" circuit						
F	Combination switch "INPUT 1" circuit						
G	Combination switch "INPUT 2" circuit						
Н	Combination switch "INPUT 3" circuit	Inspect the combination switch input circuit applicable to the malfunctioni part. Refer to BCS-40, "Diagnosis Procedure".					
1	Combination switch "INPUT 4" circuit	part. Note: to <u>Deer To, Diagnosio i recodure</u> .					
J	Combination switch "INPUT 5" circuit						
K	Combination quitab	Inspect the combination quitab Defeate DOC 40 "Deceription"					
L	Combination switch	Inspect the combination switch. Refer to BCS-42, "Description".					
M	ВСМ	Replace BCM.					

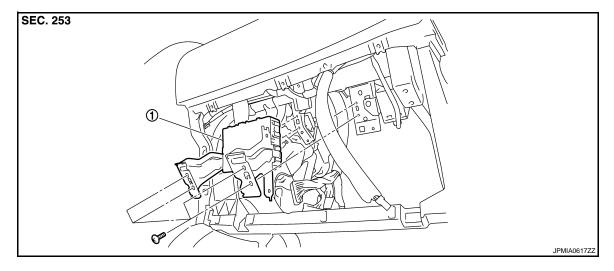
ON-VEHICLE REPAIR

BCM (BODY CONTROL MODULE)

Exploded View

CAUTION:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description".



1. BCM

Removal and Installation

CAUTION:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description".

REMOVAL

- 1. Remove glove box assembly. Refer to IP-12, "Exploded View".
- 2. Remove BCM bracket mounting screws.
- Remove BCM and disconnect the connector.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Be sure to perform "WRITE CONFIGURATION" when replacing BCM.
- Be sure to perform the system initialization (NATS) when replacing BCM.

Refer to BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

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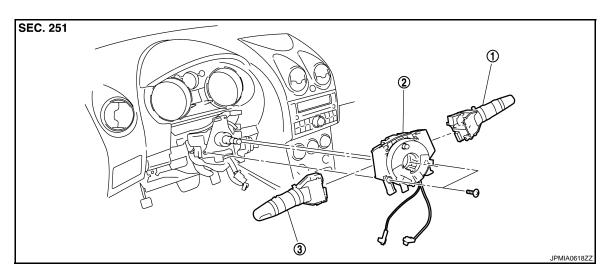
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COMBINATION SWITCH

Exploded View



- 1. Wiper & washer switch
- 2. Switch base (Spiral cable)
- 3. Light & turn signal switch

Removal and Installation

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Refer to the spiral cable removal and installation SR-8, "Exploded View".