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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > **BASIC INSPECTION** Α INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description When replacing BCM, save or print current vehicle specification with CONSULT-III configuration before replacement. Configuration has three functions as follows • READ CONFIGURATION is the function to read (extract) vehicle configuration of current BCM. D · WRITE CONFIGURATION - Manual selection is the function to select and write vehicle configuration on • WRITE CONFIGURATION - Config file is the function to write vehicle configuration with the data extracted from current BCM. **CAUTION:** When replacing BCM, you must perform WRITE CONFIGURATION with CONSULT-III. Complete the procedure of WRITE CONFIGURATION in order. F If you set incorrect WRITE CONFIGURATION, incidents will occur. Configuration is different for each vehicle model. Confirm configuration of each vehicle model. ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement INFOID:0000000006247431 1. SAVING VEHICLE SPECIFICATION Н Perform "READ CONFIGURATION" with CONSULT-III to save or print current vehicle specification. >> GO TO 2 2. REPLACE BCM Replace BCM. Refer to BCS-55, "Removal and Installation". >> GO TO 3 K 3. WRITING VEHICLE SPECIFICATION Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" with CONSULT-III to write vehicle specification. Refer to BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

>> GO TO 4

4. INITIALIZE BCM (NATS)

Perform BCM initialization. (NATS)

>> Work End.

CONFIGURATION

CONFIGURATION: Description

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

- READ CONFIGURATION is the function to read (extract) vehicle configuration of current BCM.
- WRITE CONFIGURATION Manual selection is the function to select and write vehicle configuration on BCM manually.
- WRITE CONFIGURATION Config file is the function to write vehicle configuration with the data extracted from current BCM.

CAUTION:

BCS-3 Revision: March 2012 2011 Pathfinder **BCS**

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

- 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 will occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.

CONFIGURATION: Special Repair Requirement

INFOID:0000000006247433

1. WRITING VEHICLE SPECIFICATION

Perform "WRITE CONFIGURATION" with CONSULT-III.

When writing saved data>>GO TO 2 When writing manually>>GO TO 3

 ${f 2}.$ PERFORM "WRITE CONFIGURATION - CONFIG FILE"

Perform "WRITE CONFIGURATION - Config file" with CONSULT-III.

>> Work End.

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

For "WRITE CONFIGURATION - Manual selection", using the following flow chart, identify the correct model and configuration list.

Confirm and/or change setting value for each item according to the configuration list.

Depending on CONSULT-III software version being used, some or all of the write configuration items shown in the following configuration lists may be displayed. If an item does not display on the CONSULT-III "WRITE CONFIGURATION - Manual selection" screen, then it is an auto setting item and it cannot be manually set or changed.

MANUAL SETTING ITEM				
Items	Setting value			
KEYLESS ENTRY	WITH⇔WITHOUT			
I-KEY	WITH⇔WITHOUT			
AUTO LIGHT	WITH⇔WITHOUT			
DTRL	WITH⇔WITHOUT			
THEFT ALARM	WITH⇔WITHOUT			
ASSIST LAMP TYPE	MODE1⇔MODE2			
AUTO DOOR UNLOCK TIMING	WITH I-KEY⇔WITHOUT I-KEY			

NOTE:

Confirm vehicle model. Refer to GI-20, "Model Variation".

>> Work End.

BODY CONTROL SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

BODY CONTROL SYSTEM

System Description

INFOID:0000000006247434

OUTLINE

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

BCM control function list

System	Refer to
Combination switch reading system	BCS-7, "System Diagram"
Signal buffer system	BCS-12, "System Diagram"
Power consumption control system	BCS-13. "System Diagram"
Auto light system	EXL-12, "System Diagram"
Turn signal and hazard warning lamp system	EXL-17, "System Diagram"
Headlamp system	EXL-7, "System Diagram"
Front fog lamp system (if equipped)	EXL-15. "System Diagram"
Daytime running light system (if equipped)	EXL-9, "System Diagram"
Interior room lamp control system	INL-6, "System Diagram"
Step lamp system	INL-6, "System Diagram"
Interior room lamp battery saver system	INL-6, "System Diagram"
Front wiper and washer system	WW-4, "System Diagram"
Rear wiper and washer system	WW-8, "System Diagram"
Warning chime system	WCS-4, "WARNING CHIME SYSTEM : System Diagram"
Door lock system	WITH INTELLIGENT KEY SYSTEM: DLK-15, "DOOR LOCK AND UNLOCK SWITCH: System Diagram" WITHOUT INTELLIGENT KEY SYSTEM: DLK-214, "DOOR LOCK AND UNLOCK SWITCH: System Diagram"
(NATS) Nissan anti-theft system	WITH INTELLIGENT KEY SYSTEM: <u>SEC-15</u> , "System Diagram" WITHOUT INTELLIGENT KEY SYSTEM: <u>SEC-120</u> , "System Diagram"
Vehicle security system	 WITH INTELLIGENT KEY SYSTEM: <u>SEC-19</u>, "System Diagram" WITHOUT INTELLIGENT KEY SYSTEM: <u>SEC-123</u>, "System Diagram"
Rear window defogger system	DEF-4. "System Diagram"
Remote keyless entry system	DLK-216. "REMOTE KEYLESS ENTRY : System Diagram"
Intelligent Key system (if equipped)	DLK-43, "CONSULT-III Function (INTELLIGENT KEY)"
Power window system	PWC-6, "System Diagram"
RAP (retained accessory power) system	BCS-26. "RETAINED PWR : CONSULT-III Function (BCM - RETAINED PWR)"
TPMS (tire pressure monitoring system)	WT-8. "System Diagram"

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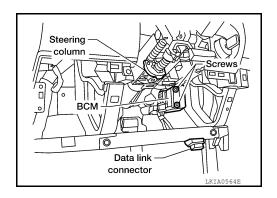
BODY CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

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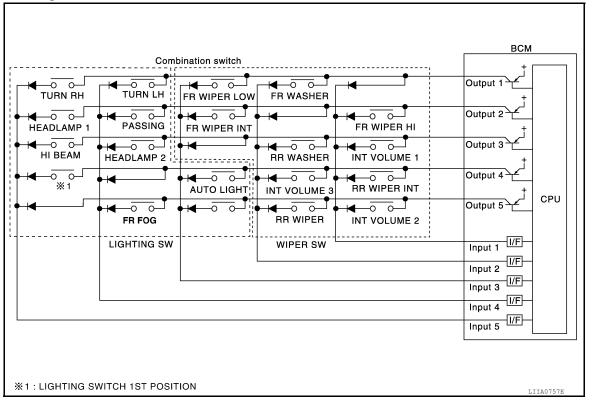
• BCM M18, M19, M20 (view with instrument panel removed)



< SYSTEM DESCRIPTION >

COMBINATION SWITCH READING SYSTEM

System Diagram



System Description

OUTLINE

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

COMBINATION SWITCH MATRIX

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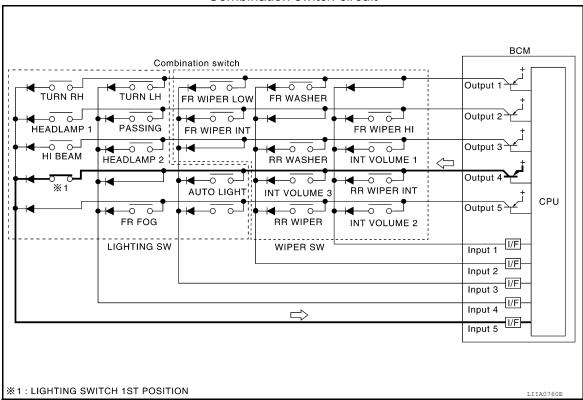
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Revision: March 2012 BCS-7 2011 Pathfinder

Combination switch circuit



Combination switch INPUT-OUTPUT system list

Combination owiton in	or com or cyclom not				
System	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4	OUTPUT 5
INPUT 1	_	FR WASHER	FR WIPER LOW	TURN LH	TURN RH
INPUT 2	FR WIPER HI	_	FR WIPER INT	PASSING	HEADLAMP 1
INPUT 3	INT VOLUME 1	RR WASHER	_	HEADLAMP 2	HI BEAM
INPUT 4	RR WIPER INT	INT VOLUME 3	AUTO LIGHT	_	TAIL LAMP
INPUT 5	INT VOLUME 2	RR WIPER	_	FR FOG	_

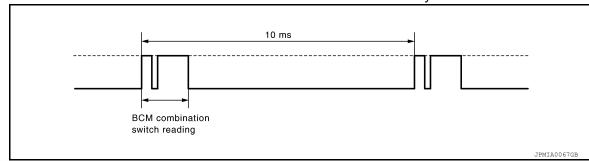
NOTE:

Headlamp has a dual system switch.

COMBINATION SWITCH READING FUNCTION

Description

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



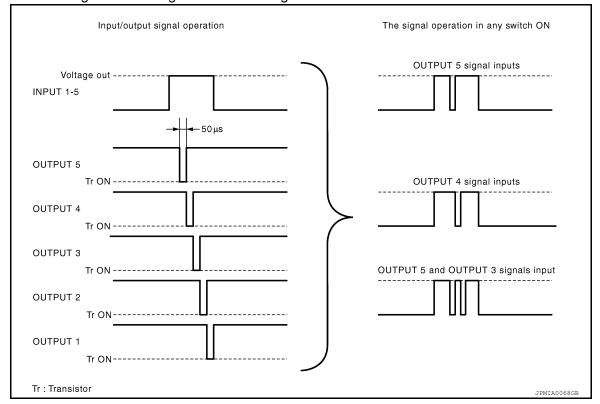
NOTE:

BCM reads the status of the combination switch at 20 ms interval when BCM is controlled at low power consumption control mode.

- BCM operates as follows and judges the status of the combination switch.
- INPUT 1 5 outputs the voltage waveforms of 5 systems simultaneously.
- It operates the transistor on OUTPUT side in the following order: OUTPUT $5 \rightarrow 4 \rightarrow 3 \rightarrow 2 \rightarrow 1$.

< SYSTEM DESCRIPTION >

- The voltage waveform of INPUT corresponding to the formed circuit changes according to the operation of the transistor on OUTPUT side if any (1 or more) switches are ON.
- It reads this change of the voltage as the status signal of the combination switch.

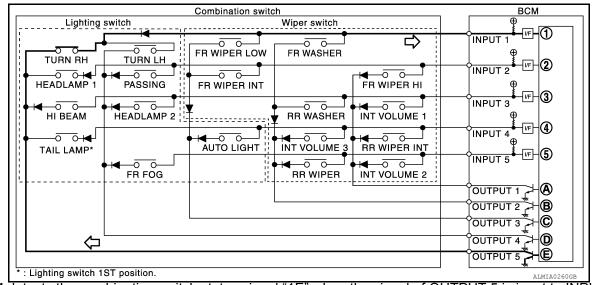


Operation Example

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

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

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



- BCM detects the combination switch status signal "1E" when the signal of OUTPUT 5 is input to INPUT 1.
- BCM judges that the TURN RH switch is ON when the signal "1E" is detected.

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

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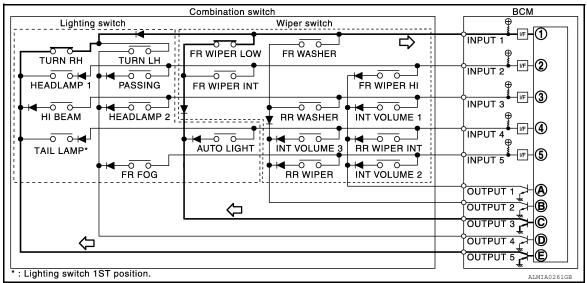
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< SYSTEM DESCRIPTION >

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



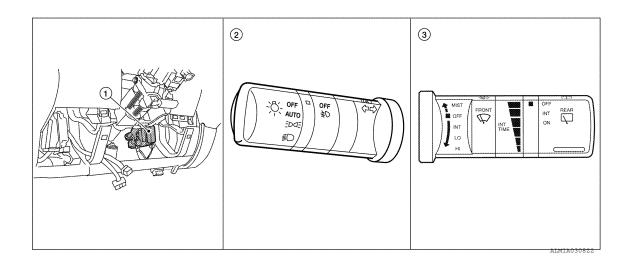
- BCM detects the combination switch status signal "1CE" when the signals of OUTPUT 3 and OUTPUT 5 are input to INPUT 1.
- BCM judges that the TURN RH switch and FR WIPER LOW switch are ON when the signal "1CE" is detected.

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

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	Short	ON	ON	ON		
2	↑	ON	ON	OFF		
3		ON	OFF	OFF		
4		OFF	OFF	OFF		
5		OFF	OFF	ON		
6	↓	OFF	ON	ON		
7	Long	OFF	ON	OFF		

Component Parts Location

INFOID:0000000006247438



< SYSTEM DESCRIPTION >

1. BCM M18, M19, M20 (view with low- 2. er instrument panel LH removed)

Combination switch (lighting and turn signal switch) M28

3. Combination switch (wiper and washer switch) M28

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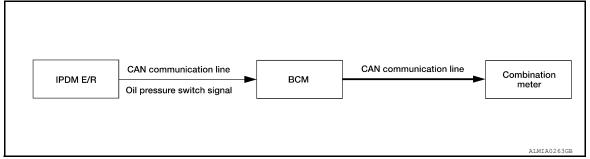
SIGNAL BUFFER SYSTEM

< SYSTEM DESCRIPTION >

SIGNAL BUFFER SYSTEM

System Diagram

INFOID:0000000006247439



System Description

INFOID:0000000006247440

OUTLINE

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

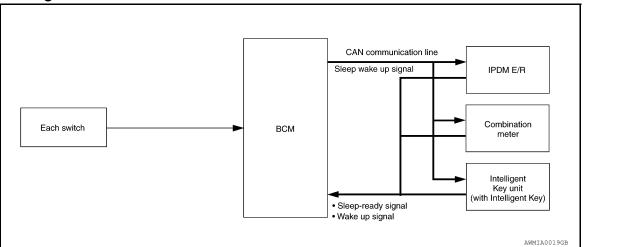
Signal name	Input	Output	Description
Oil pressure switch signal	IPDM E/R (CAN)	Combination meter (CAN)	Transmits the received oil pressure switch signal via CAN communication.

POWER CONSUMPTION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

POWER CONSUMPTION CONTROL SYSTEM

System Diagram



System Description

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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 (with Intelligent Key)] 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 20 ms interval.

Sleep mode activation

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

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Revision: March 2012 BCS-13 2011 Pathfinder

POWER CONSUMPTION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

CAN sleep condition	BCM sleep condition
 Receiving the sleep-ready signal (ready) from all units Ignition switch: OFF Vehicle security system alarm: No operation Warning lamp: No operation Warning chime: No operation Stop lamp switch: OFF Key switch status: No change for 2 seconds Hazard warning lamp: No operation Exterior lamp: OFF Door lock status: No change for 2 seconds CONSULT-III communication status: No communication Door switch status: No change for 2 seconds 	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. Each unit transmits wake up signals to BCM with CAN communication to convey the start of CAN communication.

Wake-up condition

BCM wake-up condition

- Ignition switch: OFF \rightarrow ACC or ON
- · Stop lamp switch: ON (Depress brake pedal)
- Any door switch: OFF \rightarrow ON
- Lighting switch: OFF \rightarrow 1ST or PASS
- Hazard switch: OFF \rightarrow ON
- Back door opener switch OFF \rightarrow ON
- Remote keyless entry receiver: Receiving (with remote keyless entry)
- Intelligent Key unit: Receiving (with Intelligent Key)

POWER CONSUMPTION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

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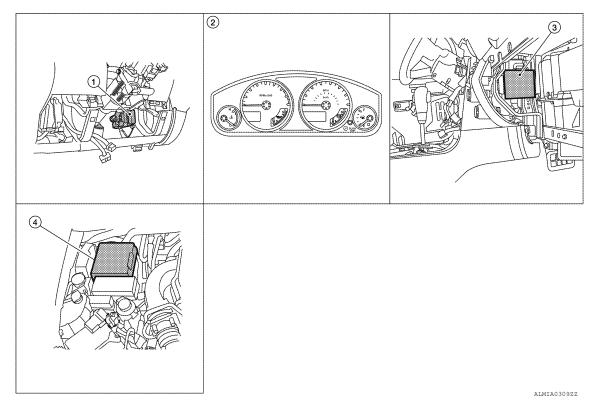
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 BCM M18, M19, M20 (view with low- 2. er instrument lower panel LH removed)

Combination meter M24

Intelligent Key unit M164 (with Intelligent Key) (view with glove box removed)

4. IPDM E/R

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< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000006247444

APPLICATION ITEM

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

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

SYSTEM APPLICATION

BCM can perform the following functions.

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

< SYSTEM DESCRIPTION >

DOOR LOCK

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

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SELF DIAGNOSTIC RESULT Refer to BCS-46, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description	
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.	
KEY ON SW [On/Off]	Indicates condition of key switch.	
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.	
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.	
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	

Indicates condition of rear door switch RH.

DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
BACK DOOR SW [On/Off]	Indicates condition of back door switch.

KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.

I-KEY LOCK* [On/Off]	Indicates condition of lock signal from Intelligent Key.
I-KEY UNLOCK* [On/Off]	Indicates condition of unlock signal from Intelligent Key.
KEYLESS LOCK** [On/Off]	Indicates condition of lock signal from keyfob.

KEYLESS UNLOCK** [On/Off] Indicates condition of unlock signal from keyfob.

DOOR SW-RR [On/Off]

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting	Description	
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.	В
DOOR LOCK-UNLOCK SET	Off	Automatic door locks function OFF.	_
ANTI-LOCK OUT SET	Off	Anti lock out function OFF.	-
ANTI-LOCK OUT SET	On*	Anti lock out function ON.	-
AUTOMATIC DOOR LOCK SELECT	SHIFT OUT OF PARK	Doors lock automatically when shifted out of park (P).	-
	VH SPD*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).	- '
AUTOMATIC DOOR UNLOCK SELECT	MODE6	Drivers door unlocks automatically when key is removed.	_
	MODE5	Drivers door unlocks automatically when shifted into park (P).	-
	MODE4	Drivers door unlocks automatically when ignition is switched from ON to OFF.	_
	MODE3	Doors unlock automatically when key is removed.	_
	MODE2	Doors unlock automatically when shifted into park (P).	_
	MODE1*	Doors unlock automatically when ignition is switched from ON to OFF.	_

BCS-17 Revision: March 2012 2011 Pathfinder

^{*:} with Intelligent Key

^{** :} without Intelligent Key

< SYSTEM DESCRIPTION >

Support Item	Setting	Description
AUTOMATIC LOCK/UNLOCK	On*	Automatic lock/unlock function ON.
SELECT	Off	Automatic lock/unlock function OFF.

^{* :} Initial setting

REAR DEFOGGER

REAR DEFOGGER: CONSULT-III Function (BCM - REAR DEFOGGER) INFOID:000000000247447

DATA MONITOR

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

ACTIVE TEST

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

BUZZER

BUZZER: CONSULT-III Function (BCM - BUZZER)

INFOID:0000000006247448

DATA MONITOR

Monitor Item [Unit]	Description
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
LIGHT SW 1ST [On/Off]	Indicates condition of combination switch.
BUCKLE SW [On/Off]	Indicates condition of seat belt buckle switch.

ACTIVE TEST

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

INT LAMP

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

INFOID:0000000006247449

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description	
BACK DOOR SW [On/Off]	Indicates condition of back door switch.	
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.	
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.	
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.	
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.	
I-KEY LOCK* [On/Off]	Indicates condition of lock signal from Intelligent Key.	
I-KEY UNLOCK* [On/Off]	Indicates condition of unlock signal from Intelligent Key.	
KEYLESS LOCK** [On/Off]	Indicates condition of lock signal from keyfob.	
KEYLESS UNLOCK** [On/Off]	Indicates condition of unlock signal from keyfob.	

^{*:} with Intelligent Key

ACTIVE TEST

Test Item	Description
IGN ILLUM	This test is able to check ignition keyhole illumination operation [Off/On].
INT LAMP	This test is able to check interior room lamp operation [Off/On].
LUGGAGE LAMP TEST	This test is able to check cargo lamp operation [Off/On].

WORK SUPPORT

Support Item	Sett	ting	Description
SET I/L D-UNLCK INTCON	Off		Interior room lamp timer function OFF.
SET I/L D-ONLOR INTOON	On*		Interior room lamp timer function ON.
	MODE7	0 sec.	
	MODE6	5 sec.	
	MODE5	4 sec.	
ROOM LAMP ON TIME SET	MODE4	3 sec.	Sets the interior room lamp gradual brightening time.
	MODE3	2 sec.	
	MODE2*	1 sec.	
	MODE1	0.5 sec.	
	MODE7	0 sec.	
	MODE6	5 sec.	
ROOM LAMP OFF TIME SET	MODE5	4 sec.	
	MODE4	3 sec.	Sets the interior room lamp gradual dimming time.
	MODE3	2 sec.	
	MODE2*	1 sec.	
	MODE1	0.5 sec.	

^{* :} Initial setting

MULTI REMOTE ENT

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

INFOID:0000000006247450

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DATA MONITOR

Revision: March 2012 BCS-19 2011 Pathfinder

^{** :} without Intelligent Key

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
ACC ON SW [On/Off]	Indicates condition of ignition switch ACC position.
KEYLESS LOCK [On/Off]	Indicates condition of lock signal from keyfob.
KEYLESS UNLOCK [On/Off]	Indicates condition of unlock signal from keyfob.
KEYLESS PANIC [On/Off]	Indicates condition of panic signal from keyfob.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [OTR ULK/DR UNLK/ALL ULK/ALL LCK].
PW REMOTO DOWN SET	This test is able to check keyfob power window down operation [Off/On].
FLASHER	This test is able to check hazard reminder operation [Off/LH/RH].
HORN	This test is able to check horn operation [On].

WORK SUPPORT

Support Item	Setting		Description
HORN CHIRP SET	Off		Horn chirp function can be changed in this mode.
HORN CHIRP SET	On*		
	MODE4*	Lock and Unlock	
HAZARD LAMP SET	MODE3	Lock Only	Hozard warning lamp function can be changed in this made
HAZARD LAMP SET	MODE2	Unlock Only	Hazard warning lamp function can be changed in this mode.
	MODE1	OFF	
	MODE2	Lock	Hazard warning lamps flash twice and horn does not sound.
MULTI ANSWER BACK SET	MODEZ	Unlock	Hazard warning lamps do not flash and horn does not sound.
WOLITANSWER BACK SET	MODE1*	Lock	Hazard warning lamps flash twice and horn sounds once.
	MODE	Unlock	Hazard warning lamps flash once and horn does not sound.
	MODE3	1 min	Auto locking function can be changed in this mode.
AUTO LOCK SET	MODE2	OFF	
	MODE1*	5 min	
	MODE3	1.5 sec	
PANIC ALRM SET	MODE2	OFF	Panic alarm operation can be changed in this mode.
	MODE1*	0.5 sec	
PW DOWN SET	MODE3	5 sec	
	MODE2	OFF	Keyfob power window down can be changed in this mode.
	MODE1*	3 sec	
REMO CONT ID REGIST	_		Keyfob ID code can be registered.

< SYSTEM DESCRIPTION >

Support Item	Setting	Description
REMO CONT ID ERASUR	_	Keyfob ID code can be erased.
REMO CONT ID CONFIR	_	Keyfob ID code registration is displayed.

*: Initial setting

HEADLAMP

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

INFOID:0000000006247451

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DATA MONITOR

Monitor Item [Unit]	Description	
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.	
ACC ON SW [On/Off]	Indicates condition of ignition switch ACC position.	E
HI BEAM SW [On/Off]		
HEAD LAMP SW 1 [On/Off]		
HEAD LAMP SW 2 [On/Off]		F
LIGHT SW 1ST [On/Off]	Indicates condition of combination switch.	
AUTO LIGHT SW [On/Off]		G
PASSING SW [On/Off]		
FR FOG SW [On/Off]		
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	Н
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.	
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	
BACK DOOR SW [On/Off]	Indicates condition of back door switch.	
TURN SIGNAL R [On/Off]	Later to a second to the secon	
TURN SIGNAL L [On/Off]	Indicates condition of combination switch.	
OPTICAL SENSOR [V]	Indicates voltage signal from optical sensor.	1/

ACTIVE TEST

Test Item	Description	
TAIL LAMP	This test is able to check tail lamp operation [Off/On].	
HEAD LAMP	This test is able to check head lamp operation [Off/Lo/Hi].	
FR FOG LAMP	This test is able to check front fog lamp operation [Off/On].	

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WORK SUPPORT

Support Item	Setting	Description
BATTERY SAVER SET	Off	Exterior lamp battery saver function OFF.
BATTERT SAVER SET	On*	Exterior lamp battery saver function ON.
CUSTOM A/LIGHT SETTING	MODE4	Less sensitive setting than normal setting (Turns ON later than normal operation).
	MODE3	More sensitive setting than MODE 2 (Turns ON earlier than MODE 2).
	MODE2	More sensitive setting than normal setting (Turns ON earlier than normal operation).
	MODE1*	Normal.

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< SYSTEM DESCRIPTION >

Support Item	Setting		Description
	MODE8	180 sec	
	MODE7	150 sec	
ILL DELAY SET	MODE6	120 sec	
	MODE5	90 sec	Sets delay timer function operation time (All doors closed).
	MODE4	60 sec	
	MODE3	30 sec	
	MODE2	OFF	
	MODE1*	45 sec	

^{*:} Initial setting

WIPER

WIPER: CONSULT-III Function (BCM - WIPER)

INFOID:0000000006247452

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
IGN SW CAN [On/Off]	Indicates ignition switch ON signal received from IPDM E/R on CAN communication line.
FR WIPER HI [On/Off]	
FR WIPER LOW [On/Off]	
FR WIPER INT [On/Off]	Indicates condition of front wiper operation of combination switch.
FR WASHER SW [On/Off]	
INT VOLUME [1 - 7]	
FR WIPER STOP [On/Off]	Indicates front wiper motor auto stop signal received from IPDM E/R on CAN communication line.
VEHICLE SPEED [km/h/mph]	Indicates vehicle speed signal received from combination meter on CAN communication line.
RR WIPER ON [On/Off]	
RR WIPER INT [On/Off]	Indicates condition of rear wiper operation of combination switch.
RR WASHER SW [On/Off]	
RR WIPER STOP [On/Off]	Indicates rear wiper motor auto stop input from rear wiper motor.

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting	Description
WIPER SPEED SETTING	Off*	Front wiper intermittent time linked with wiper dial position.
WII EIC OF EED GETTING	On	Front wiper intermittent time linked with vehicle speed and wiper dial position.

^{*:} Initial setting

FLASHER

FLASHER: CONSULT-III Function (BCM - FLASHER)

INFOID:0000000006247453

DATA MONITOR

PASSING SW [On/Off]

FR FOG SW [On/Off]

AUTO LIGHT SW [On/Off]

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
HAZARD SW [On/Off]	Indicates condition of lightion switch ON position.
TURN SIGNAL R [On/Off]	indicates condition of nazard switch.
TURN SIGNAL I. [On/Off]	Indicates condition of turn signal function of combination switch.
BRAKE SW [On/Off]	Indicates condition of brake switch.
	indicates condition of brake switch.
ACTIVE TEST	
Test Item	Description
FLASHER	This test is able to check turn signal lamp operation [Off/LH/RH].
AIR CONDITIONER	
DATA MONITOR	CONSULT-III Function (BCM - AIR CONDITIONER) INFOID:00000000624745
Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
FAN ON SIG [On/Off]	Indicates condition of fan switch.
AIR COND SW [On/Off]	Indicates condition of A/C switch.
INTELLIGENT KEY : C	ONSULT-III Function (BCM - INTELLIGENT KEY) INFOID:00000000624745
INTELLIGENT KEY : C	ONSULT-III Function (BCM - INTELLIGENT KEY) INFOID:00000000624748
	ONSULT-III Function (BCM - INTELLIGENT KEY) INFOID:00000000624745
INTELLIGENT KEY : C	
INTELLIGENT KEY : C DATA MONITOR Monitor Item [Unit]	Description
INTELLIGENT KEY : C DATA MONITOR Monitor Item [Unit] I-KEY LOCK [On/Off]	Description Indicates condition of lock signal from Intelligent Key.
INTELLIGENT KEY : C DATA MONITOR Monitor Item [Unit] I-KEY LOCK [On/Off] I-KEY UNLOCK [On/Off]	Description Indicates condition of lock signal from Intelligent Key. Indicates condition of unlock signal from Intelligent Key.
INTELLIGENT KEY : C DATA MONITOR Monitor Item [Unit] I-KEY LOCK [On/Off] I-KEY UNLOCK [On/Off] I-KEY PW DWN [On/Off]	Description Indicates condition of lock signal from Intelligent Key. Indicates condition of unlock signal from Intelligent Key. Indicates condition of power window down signal from Intelligent Key.
INTELLIGENT KEY: C DATA MONITOR Monitor Item [Unit] I-KEY LOCK [On/Off] I-KEY UNLOCK [On/Off] I-KEY PW DWN [On/Off] I-KEY PANIC [On/Off]	Description Indicates condition of lock signal from Intelligent Key. Indicates condition of unlock signal from Intelligent Key. Indicates condition of power window down signal from Intelligent Key. Indicates condition of panic signal from Intelligent Key.
INTELLIGENT KEY: C DATA MONITOR Monitor Item [Unit] I-KEY LOCK [On/Off] I-KEY UNLOCK [On/Off] I-KEY PW DWN [On/Off] I-KEY PANIC [On/Off] PUSH SW [On/Off] COMB SW	Description Indicates condition of lock signal from Intelligent Key. Indicates condition of unlock signal from Intelligent Key. Indicates condition of power window down signal from Intelligent Key. Indicates condition of panic signal from Intelligent Key.
INTELLIGENT KEY: C DATA MONITOR Monitor Item [Unit] I-KEY LOCK [On/Off] I-KEY UNLOCK [On/Off] I-KEY PW DWN [On/Off] I-KEY PANIC [On/Off] PUSH SW [On/Off] COMB SW COMB SW: CONSULT DATA MONITOR	Description Indicates condition of lock signal from Intelligent Key. Indicates condition of unlock signal from Intelligent Key. Indicates condition of power window down signal from Intelligent Key. Indicates condition of panic signal from Intelligent Key. Indicates condition of ignition knob switch. F-III Function (BCM - COMB SW)
INTELLIGENT KEY: C DATA MONITOR Monitor Item [Unit] I-KEY LOCK [On/Off] I-KEY UNLOCK [On/Off] I-KEY PW DWN [On/Off] I-KEY PANIC [On/Off] PUSH SW [On/Off] COMB SW COMB SW: CONSULT DATA MONITOR	Description Indicates condition of lock signal from Intelligent Key. Indicates condition of unlock signal from Intelligent Key. Indicates condition of power window down signal from Intelligent Key. Indicates condition of panic signal from Intelligent Key. Indicates condition of ignition knob switch.
INTELLIGENT KEY: C DATA MONITOR Monitor Item [Unit] I-KEY LOCK [On/Off] I-KEY UNLOCK [On/Off] I-KEY PW DWN [On/Off] I-KEY PANIC [On/Off] PUSH SW [On/Off] COMB SW COMB SW: CONSULT DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off]	Description Indicates condition of lock signal from Intelligent Key. Indicates condition of unlock signal from Intelligent Key. Indicates condition of power window down signal from Intelligent Key. Indicates condition of panic signal from Intelligent Key. Indicates condition of ignition knob switch. F-III Function (BCM - COMB SW)
INTELLIGENT KEY : C DATA MONITOR Monitor Item [Unit] I-KEY LOCK [On/Off] I-KEY UNLOCK [On/Off] I-KEY PW DWN [On/Off] I-KEY PANIC [On/Off] PUSH SW [On/Off] COMB SW COMB SW : CONSULT DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off]	Description Indicates condition of lock signal from Intelligent Key. Indicates condition of unlock signal from Intelligent Key. Indicates condition of power window down signal from Intelligent Key. Indicates condition of panic signal from Intelligent Key. Indicates condition of ignition knob switch. F-III Function (BCM - COMB SW) Description Indicates condition of turn signal operation of combination switch.
INTELLIGENT KEY: C DATA MONITOR Monitor Item [Unit] I-KEY LOCK [On/Off] I-KEY UNLOCK [On/Off] I-KEY PW DWN [On/Off] I-KEY PANIC [On/Off] PUSH SW [On/Off] COMB SW COMB SW: CONSULT DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off] HI BEAM SW [On/Off]	Description Indicates condition of lock signal from Intelligent Key. Indicates condition of unlock signal from Intelligent Key. Indicates condition of power window down signal from Intelligent Key. Indicates condition of panic signal from Intelligent Key. Indicates condition of ignition knob switch. F-III Function (BCM - COMB SW)
INTELLIGENT KEY : C DATA MONITOR Monitor Item [Unit] I-KEY LOCK [On/Off] I-KEY UNLOCK [On/Off] I-KEY PW DWN [On/Off] I-KEY PANIC [On/Off] PUSH SW [On/Off] COMB SW COMB SW : CONSULT DATA MONITOR Monitor Item [Unit] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off]	Description Indicates condition of lock signal from Intelligent Key. Indicates condition of unlock signal from Intelligent Key. Indicates condition of power window down signal from Intelligent Key. Indicates condition of panic signal from Intelligent Key. Indicates condition of ignition knob switch. F-III Function (BCM - COMB SW) Description Indicates condition of turn signal operation of combination switch.

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Indicates condition of passing switch operation of combination switch.

Indicates condition of front fog light operation of combination switch.

Indicates condition of auto light operation of combination switch.

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
FR WIPER HI [On/Off]	
FR WIPER LOW [On/Off]	Indicates condition of front wiper operation of combination switch.
FR WIPER INT [On/Off]	
FR WASHER SW [On/Off]	Indicates condition of front washer operation of combination switch.
INT VOLUME [1 - 7]	Indicates condition of intermittent wiper operation of combination switch.
RR WIPER ON [On/Off]	Indicates condition of rear wiper operation of combination switch.
RR WIPER INT [On/Off]	indicates condition of real wiper operation of combination switch.
RR WASHER SW [On/Off]	Indicates condition of rear washer operation of combination switch.

BCM

BCM: CONSULT-III Function (BCM - BCM)

INFOID:0000000006247445

ECU IDENTIFICATION

The BCM part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to BCS-46, "DTC Index".

WORK SUPPORT

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

CONFIGURATION

Refer to BCS-3, "CONFIGURATION: Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-10, "CAN Diagnostic Support Monitor".

IMMU

IMMU: CONSULT-III Function (BCM - IMMU)

INFOID:0000000006247457

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.

ACTIVE TEST

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

BATTERY SAVER

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

INFOID:0000000006247458

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.

< SYSTEM DESCRIPTION >

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

^{*:} with Intelligent Key

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting		Description
	MODE3	10 min	
ROOM LAMP TIMER SET	MODE2	60 min	Sets the interior room lamp battery saver timer operating time.
	MODE1*	15 min	

^{*:} Initial setting

TRUNK

TRUNK: CONSULT-III Function (BCM - TRUNK)

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DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
TRNK OPNR SW [On/Off]	Indicates condition of back door opener switch.
VEHICLE SPEED [km/h/mph]	Indicates vehicle speed signal received from combination meter on CAN communication line.

ACTIVE TEST

Test item	Description
TRUNK/BACK DOOR	This test is able to check back door latch operation [Open].

THEFT ALM

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

INFOID:0000000006247464

DATA MONITOR

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^{** :} without Intelligent Key

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
ACC ON SW [On/Off]	Indicates condition of ignition switch ACC position.
I-KEY LOCK* [On/Off]	Indicates condition of lock signal from Intelligent Key.
I-KEY UNLOCK* [On/Off]	Indicates condition of unlock signal from Intelligent Key.
KEYLESS LOCK** [On/Off]	Indicates condition of lock signal from keyfob.
KEYLESS UNLOCK** [On/Off]	Indicates condition of unlock signal from keyfob.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
BACK DOOR SW [On/Off]	Indicates condition of back door switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.

^{*:} with Intelligent Key

ACTIVE TEST

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

WORK SUPPORT

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

^{*:} Initial setting

RETAINED PWR

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

INFOID:0000000006247460

DATA MONITOR

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

ACTIVE TEST

Test Item	Description
RETAINED PWR	This test is able to check retained power operation [Off/On].

^{** :} without Intelligent Key

< SYSTEM DESCRIPTION >

WORK SUPPORT

Support Item	Setting		Description
RETAINED PWR SET	MODE3	2 min	
	MODE2	OFF	Sets the retained accessory power operating time.
	MODE1*	45 sec	

^{*:} Initial setting

SIGNAL BUFFER

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

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DATA MONITOR

Monitor Item [Unit]	Description
OIL PRESS SW [On/Off]	Indicates condition of oil pressure switch signal received from IPDM E/R on CAN communication line.

ACTIVE TEST

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

AIR PRESSURE MONITOR

AIR PRESSURE MONITOR: CONSULT-III Function (BCM - AIR PRESSURE MONI-TOR) INFOID:0000000006247463

SELF DIAGNOSTIC RESULT

NOTE:

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

Refer to BCS-46, "DTC Index".

DATA MONITOR

Monitor Item	Condition	Specification	
VEHICLE SPEED	Drive vehicle	Vehicle speed (km/h or mph)	
AIR PRESS FL	Drive vehicle for a few minutes.	Tire pressure (kPa, kg/cm ² or psi).	
AIR PRESS FR	or		BCS
AIR PRESS RR	Ignition switch ON and activation tool is trans- mitting activation signals.		
AIR PRESS RL			N
ID REGST FL1		Registration ID: Green No registration: Red	- IV
ID REGST FR1	Ignition quitab ON		
ID REGST RR1	Ignition switch ON.		0
ID REGST RL1			
WARNING LAMP	Ignition switch ON.	Low tire pressure warning lamp on: ON. Low tire pressure warning lamp off: OFF.	Р
BUZZER	Ignition switch ON.	Buzzer in combination meter on: ON. Buzzer in combination meter off: OFF.	

ACTIVE TEST

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< SYSTEM DESCRIPTION >

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

WORK SUPPORT

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

PANIC ALARM

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

INFOID:0000000006247465

ACTIVE TEST

Test Item	Description
HEAD LAMP (HI)	This test is able to check head lamp HI operation [On].
PANIC ALARM	This test is able to check panic alarm operation [On].

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:0000000006247466

Refer to LAN-53, "CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

				D
DTC	CONSULT-III display description	DTC Detection Condition	Possible cause	
U1000	CAN COMM CIRCUIT	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	Any item (or items) of the following listed below is malfunctioning in CAN communication system. Transmission Receiving (ECM) Receiving (METER/M&A) Receiving (TCM) Receiving (MULTI AV) Receiving (IPDM E/R) Receiving (I-KEY)	E F G

Diagnosis Procedure

INFOID:0000000006247468

1. PERFORM SELF DIAGNOSTIC

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

Is "CAN COMM CIRCUIT" displayed?

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

NO >> Refer to GI-37, "Intermittent Incident".

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000006247469

Regarding Wiring Diagram information, refer to BCS-48, "Wiring Diagram".

1. CHECK FUSES AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuses and fusible link No.
57	Pattery newer cumply	21 (10A)
70	Battery power supply	G (50A)
11	Ignition ACC or ON	4 (10A)
38	Ignition ON or START	1 (10A)

Is the fuse blown?

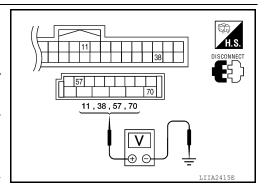
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

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

Connector	Terminals		Power	Condition	Voltage (V) (Ap-	
Connector	(+)	(-)	source	Condition	prox.)	
M18	11	Ground	ACC power supply	Ignition switch ACC or ON	Battery voltage	
	38	Ground	Ignition power supply	Ignition switch ON or START	Battery voltage	
M20	57	Ground	Battery power supply	Ignition switch OFF	Battery voltage	
IVIZU	70	Ground	Battery power supply	Ignition switch OFF	Battery voltage	



Is the measurement value normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

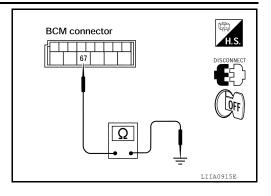
Check continuity between BCM harness connector and ground.

В	СМ		Continuity
Connector	Connector Terminal		Continuity
M20	M20 67		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



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COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

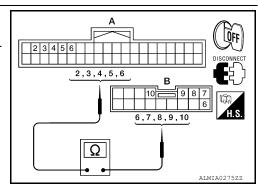
INFOID:0000000006247470

Regarding Wiring Diagram information, refer to BCS-48, "Wiring Diagram".

1. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

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

System	BCM		Combination switch		Continuity	
System	Connector	Terminal	Connector	Terminal	Continuity	
INPUT 1	M18 (A)	6		6		
INPUT 2		5		7		
INPUT 3		4	M28 (B)	10	Yes	
INPUT 4		3	(-)	9		
INPUT 5		2		8		



Does continuity exist?

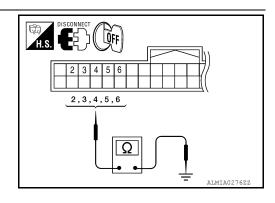
YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

Cyatam	BCM			Continuity
System	Connector	Terminal		Continuity
INPUT 1		6		
INPUT 2		5	Ground	
INPUT 3	M18	4		No
INPUT 4		3		
INPUT 5		2		



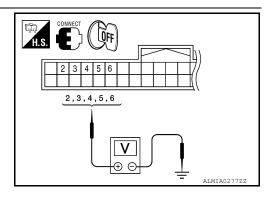
Does continuity exist?

YES >> Repair or replace harness.

NO >> GO TO 3

3. CHECK BCM OUTPUT VOLTAGE

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



COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4

NO >> Replace BCM. Refer to <u>BCS-55</u>, "Removal and Installation".

4. CHECK COMBINATION SWITCH

Check combination switch. Refer to BCS-35, "Description".

Is the check result normal?

YES >> Replace BCM. Refer to BCS-55, "Removal and Installation".

NO >> Replace the combination switch (applicable parts). Refer to EXL-149. "Removal and Installation".

Special Repair Requirement

INFOID:0000000006247471

1. ADDITIONAL SERVICE WHEN REPLACING BCM

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

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Revision: March 2012 BCS-33 2011 Pathfinder

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

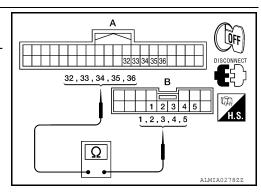
INFOID:0000000006247472

Regarding Wiring Diagram information, refer to BCS-48, "Wiring Diagram".

1. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

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

System	BCM		Combination switch		Continuity	
System	Connector	Terminal	Connector	Terminal	Continuity	
OUTPUT 1		36		1		
OUTPUT 2		35		2		
OUTPUT 3	M18 (A)	34	M28 (B)	3	Yes	
OUTPUT 4	,	33	,	4		
OUTPUT 5		32		5		



Does continuity exist?

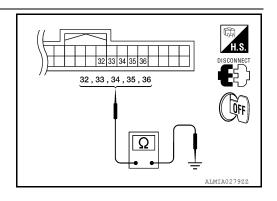
YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

ВС	CM		Continuity
Connector	Terminal		Continuity
	36	1	
	35	Ground	No
M18	34		
	33		
	32		
	Connector	36 35 M18 34 33	Connector Terminal 36 35 Ground M18 34 33



Does continuity exist?

YES >> Repair or replace harness.

NO >> GO TO 3

$oldsymbol{3}.$ CHECK COMBINATION SWITCH

Check combination switch. Refer to BCS-35, "Description".

Is the check result normal?

YES >> Replace BCM. Refer to BCS-55, "Removal and Installation".

NO >> Replace combination switch (applicable parts). Refer to EXL-149, "Removal and Installation".

Special Repair Requirement

INFOID:0000000006247473

1. ADDITIONAL SERVICE WHEN REPLACING BCM

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

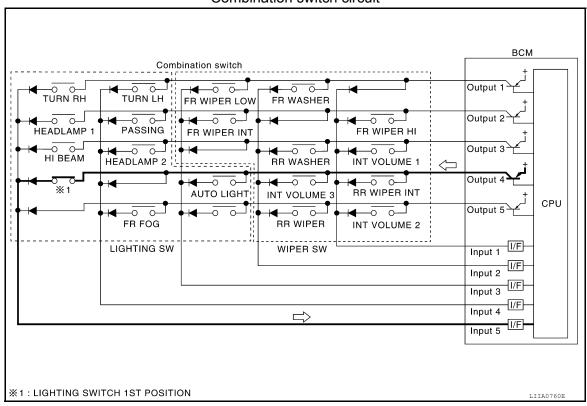
COMBINATION SWITCH

Description INFOID:0000000006247474

COMBINATION SWITCH MATRIX

Combination switch consists of INPUT circuit and OUTPUT circuit.

Combination switch circuit



Combination switch INPUT-OUTPUT system list

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System	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4	OUTPUT 5	
INPUT 1	_	FR WASHER	FR WIPER LOW	TURN LH	TURN RH	
INPUT 2	FR WIPER HI	_	FR WIPER INT	PASSING	HEADLAMP 1	
INPUT 3	INT VOLUME 1	RR WASHER	_	HEADLAMP 2	HI BEAM	
INPUT 4	RR WIPER INT	INT VOLUME 3	AUTO LIGHT	_	TAIL LAMP	
INPUT 5	INT VOLUME 2	RR WIPER	_	FR FOG	_	

NOTE:

Headlamp has a dual system switch.

Diagnosis Procedure

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. Refer to EXL-149, "Removal and Installation".

NO >> GO TO 2

2. CHECK WIPER & WASHER SWITCH

Check operation with normal wiper & washer switch installed.

Does it operate normally?

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>> Replace wiper & washer switch. Refer to WW-70, "Removal and Installation". YES

> **BCS-35** 2011 Pathfinder

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COMBINATION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 3

$\bf 3.$ CHECK SWITCH BASE (SPIRAL CABLE)

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

Does it operate normally?

>> Replace switch base (spiral cable). Refer to <u>SR-7, "Removal and Installation"</u>. >> Combination switch is normal. YES

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

NOTE:

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

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- · Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- · Confirm vehicle Intelligent Key antenna signal strength
- Test remote keyless entry keyfob relative signal strength

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	
ACC ON CW	Ignition switch OFF or ON	Off	
ACC ON SW	Ignition switch ACC	On	
AID COND SW	A/C switch OFF	Off	
AIR COND SW	A/C switch ON	On	
AIR PRESS FL	Front left tire air pressure value	kPa, kg/cm ² , psi	
AIR PRESS FR	Front right tire air pressure value	kPa, kg/cm ² , psi	
AIR PRESS RL	Rear left tire air pressure value	kPa, kg/cm², psi	
AIR PRESS RR	Rear right tire air pressure value	kPa, kg/cm ² , psi	
ALITO LICUT CW	Lighting switch OFF	Off	
AUTO LIGHT SW	Lighting switch AUTO	On	
DACK DOOD CW	Back door closed	Off	
BACK DOOR SW	Back door opened	On	
DDAKE CW	Brake pedal released	Off	
BRAKE SW	Brake pedal applied	On	
DUCKLE SW	Seat belt buckle unfastened	Off	
BUCKLE SW	Seat belt buckle fastened	On	
BUZZER	Buzzer in combination meter OFF	Off	
BUZZER	Buzzer in combination meter ON	On	
CDL LOCK SW	Door lock/unlock switch does not operate	Off	
CDL LOCK SW	Press door lock/unlock switch to the LOCK side	On	
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off	
CDL UNLOCK SW	Press door lock/unlock switch to the UNLOCK side	On	
DOOR SW-AS	Front door RH closed	Off	
DOOR SW-AS	Front door RH opened	On	
DOOR SW-DR	Front door LH closed	Off	
DOOR SW-DR	Front door LH opened	On	
DOOR SW-RL	Rear door LH closed	Off	
DOOR SW-RL	Rear door LH opened	On	
DOOR SW-RR	Rear door RH closed	Off	
DOOK 2111-KK	Rear door RH opened	On	

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
FAN ON SIG	Blower motor fan switch OFF	Off
TAIN ON OIG	Blower motor fan switch ON	On
FR FOG SW	Front fog lamp switch OFF	Off
11(1 00 0W	Front fog lamp switch ON	On
FR WASHER SW	Front washer switch OFF	Off
TI WASHER SW	Front washer switch ON	On
FR WIPER LOW	Front wiper switch OFF	Off
TIX WIF LIX LOW	Front wiper switch LO	On
FR WIPER HI	Front wiper switch OFF	Off
TIX WIF LIXTII	Front wiper switch HI	On
FR WIPER INT	Front wiper switch OFF	Off
FR WIFER IN	Front wiper switch INT	On
FR WIPER STOP	Any position other than front wiper stop position	Off
FR WIPER STOP	Front wiper stop position	On
LIAZADD CW	When hazard switch is not pressed	Off
HAZARD SW	When hazard switch is pressed	On
LIEAD LAMD CVALA	Headlamp switch OFF	Off
HEAD LAMP SW 1	Headlamp switch 1st	On
LIEAD LAMB OW O	Headlamp switch OFF	Off
HEAD LAMP SW 2	Headlamp switch 1st	On
	High beam switch OFF	Off
HI BEAM SW	High beam switch HI	On
ID DECOT EL 4	ID registration of front left tire incomplete	YET
ID REGST FL1	ID registration of front left tire complete	DONE
ID DECOT ED 4	ID registration of front right tire incomplete	YET
ID REGST FR1	ID registration of front right tire complete	DONE
ID DECOT DL 4	ID registration of rear left tire incomplete	YET
ID REGST RL1	ID registration of rear left tire complete	DONE
ID DECOT DD4	ID registration of rear right tire incomplete	YET
ID REGST RR1	ID registration of rear right tire complete	DONE
JONEONE OWE	Ignition switch OFF or ACC	Off
IGN ON SW	Ignition switch ON	On
1011 011/ 0411	Ignition switch OFF or ACC	Off
IGN SW CAN	Ignition switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
4	LOCK button of Intelligent Key is not pressed	Off
I-KEY LOCK ¹	LOCK button of Intelligent Key is pressed	On
4	PANIC button of Intelligent Key is not pressed	Off
I-KEY PANIC ¹	PANIC button of Intelligent Key is pressed	On
	UNLOCK button of Intelligent Key is not pressed	Off
I-KEY PW DWN ¹	UNLOCK button of Intelligent Key is pressed for greater than 3 seconds and driver's window operating in DOWN direction	On
1 KEV 1 NII 00K1	UNLOCK button of Intelligent Key is not pressed	Off
I-KEY UNLOCK ¹	UNLOCK button of Intelligent Key is pressed	On

< ECU DIAGNOSIS INFORMATION >

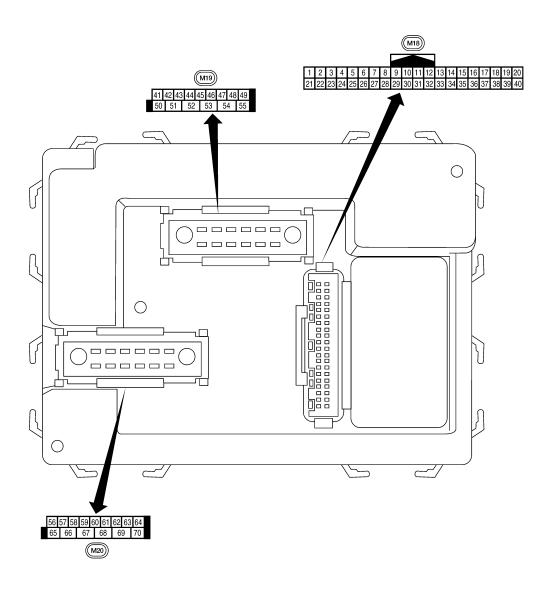
Monitor Item	Condition	Value/Status
KEY CYL LK-SW	Door key cylinder LOCK position	Off
CET CTL LK-SVV	Door key cylinder other than LOCK position	On
KEY CYL UN-SW	Door key cylinder UNLOCK position	Off
CET CTE ON-SW	Door key cylinder other than UNLOCK position	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
CET ON SW	Mechanical key is inserted to key cylinder	On
KEYLESS LOCK ²	LOCK button of key fob is not pressed	Off
VETLESS LOCK-	LOCK button of key fob is pressed	On
VEVI FOO DANIO?	PANIC button of key fob is not pressed	Off
KEYLESS PANIC ²	PANIC button of key fob is pressed	On
νενα ερο μινα ρου ²	UNLOCK button of key fob is not pressed	Off
KEYLESS UNLOCK ²	UNLOCK button of key fob is pressed	On
LIGHT SW 1ST	Lighting switch OFF	Off
.1611 300 131	Lighting switch 1st	On
OIL PRESS SW	Ignition switch OFF or ACC Engine running	Off
	Ignition switch ON	On
ODTICAL SENSOR	Bright outside of the vehicle	Close to 5V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0V
PASSING SW	Other than lighting switch PASS	Off
ASSING SW	Lighting switch PASS	On
PUSH SW ¹	Return to ignition switch to LOCK position	Off
705H SW .	Press ignition switch	On
REAR DEF SW	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
RR WASHER SW	Rear washer switch OFF	Off
AL WASHER SW	Rear washer switch ON	On
RR WIPER INT	Rear wiper switch OFF	Off
XIX VVIE LIX IIVI	Rear wiper switch INT	On
RR WIPER ON	Rear wiper switch OFF	Off
AL VVIE LIX OIN	Rear wiper switch ON	On
RR WIPER STOP	Rear wiper stop position	Off
M WIFLK SIUP	Other than rear wiper stop position	On
URN SIGNAL L	Turn signal switch OFF	Off
UNIN SIGNAL L	Turn signal switch LH	On
TUDN SIGNAL D	Turn signal switch OFF	Off
ΓURN SIGNAL R	Turn signal switch RH	On
/EHICLE SPEED	While driving	Equivalent to speedometer reading
A/A DAUNIO L ANAD	Low tire pressure warning lamp in combination meter OFF	Off
WARNING LAMP	Low tire pressure warning lamp in combination meter ON	On

^{1:} With Intelligent Key

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^{2:} With remote keyless entry system

Terminal Layout



LIIA2443E

Physical Values

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< ECU DIAGNOSIS INFORMATION >

	Wire		Signal		Measuring condition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
1	BR	Ignition keyhole illumi-	Output	OFF	Door is locked (SW OFF)	Battery voltage
1	ВK	nation	Output	OFF	Door is unlocked (SW ON)	0V
2	Р	Combination switch input 5	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 **5ms SKIA5291E
3	SB	Combination switch input 4	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 ***5ms
4	٧	Combination switch input 3	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 2 0 ++5ms SKIA5291E
5	L	Combination switch input 2				(V)
6	R	Combination switch input 1	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 **5ms SKIA5292E
0	Y	Rear window defogger	lanut	ON	Rear window defogger switch ON	0V
9	ĭ	switch	Input	ON	Rear window defogger switch OFF	5V
11	G/B	Ignition switch (ACC or ON)	Input	ACC or ON	Ignition switch ACC or ON	Battery voltage
12	LG	Front door switch RH	Input	OFF	ON (open)	0V
12	LG	T TOTIL GOOT SWILCH RH	Input	OFF	OFF (closed)	Battery voltage
13	L	Rear door switch RH	Input	OFF	ON (open)	0V
.0	_		mpat	5.1	OFF (closed)	Battery voltage
15	W	Tire pressure warning check connector	Input	OFF		5V
18	BR	Remote keyless entry receiver and optical sensor (ground)	Output	OFF	_	0V

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			Signal		Measuring condition			
Terminal	Wire color	Signal name	input/ output	Ignition switch	Operation or condition	Reference value or waveform (Approx.)		
19	V	Remote keyless entry receiver (power supply)	Output	OFF	Ignition switch OFF	(V) 6 4 2 0 **50 ms		
20	G	Remote keyless entry	lnnut	OFF	Stand-by (keyfob buttons re- leased)	(V) 4 2 0 ++50 ms LIIA1894E		
20	Ü	receiver (signal)	Input OF	त्र (Signal)	When remote keyless receiver receives sign	·	When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed)	(V) 6 4 2
21	GR	NATS antenna amp.	Input	OFF → ON	Ignition switch (OFF → ON)	Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, the return to battery voltage.		
22	V	BUS	_	_	Ignition switch ON or power window timer operates	(V) 15 10 5 0 200 ms		
23	G	Security indicator lamp	Output	OFF	Goes OFF → illuminates (Every 2.4 seconds)	Battery voltage → 0V		
25	BR	NATS antenna amp.	Input	OFF → ON	Ignition switch (OFF → ON)	Just after turning ignition swit ON: Pointer of tester should move for approx. 1 second, the return to battery voltage.		
27	W	Compressor ON sig-	Input	ON	A/C switch OFF	5V		
		nal			A/C switch ON	0V		
28	R	Front blower monitor	Input	ON	Front blower motor OFF Front blower motor ON	Battery voltage 0V		
29	G	Hazard switch	Input	OFF	ON OFF	0V 5V		
30 ¹	G	Back door opener switch	Input	OFF	ON (open) OFF (closed)	0V Battery voltage		
30 ²	SB	Back door opener switch	Input	OFF	ON (open) OFF (closed)	0V Battery voltage		

< ECU DIAGNOSIS INFORMATION >

	100		Signal		Measuring condition	
Terminal	Wire color	Signal name	input/ output	Ignition switch	Operation or condition	Reference value or waveform (Approx.)
32	Ο	Combination switch output 5	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 *** 5ms SKIA5291E
33	GR	Combination switch output 4	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 **5ms SKIA5292E
34	G	Combination switch output 3	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 4 2 0 +-5ms SKIA5291E
35	BR	Combination switch output 2				
36	LG	Combination switch output 1	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 **5ms SKIA5292E
37 ¹	В	Key switch and key	Input	OFF	Key inserted	Battery voltage
		lock solenoid	•		Key removed	0V
37 ²	В	Key switch and igni- tion knob switch	Input	OFF	Intelligent Key inserted Intelligent Key removed	Battery voltage 0V
38	W/R	Ignition switch (ON)	Input	ON	_	Battery voltage
39	L	CAN-H	_	_	_	_
40	Р	CAN-L	_		_	_
42	LG	Glass hatch ajar switch	Input	ON	Glass hatch open	0V
43	Р	Back door latch switch	Input	OFF	ON (open) OFF (closed)	Battery voltage 0V Battery voltage

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< ECU DIAGNOSIS INFORMATION >

	Wire		Signal		Measuring condition	Reference value or waveform	
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)	
					Rise up position (rear wiper arm on stopper)	0V	
					A Position (full clockwise stop position)	Battery voltage	
44 O	Rear wiper auto stop switch	Input	ON	Forward sweep (counterclockwise direction)	Fluctuating		
					B Position (full counterclockwise stop position)	0V	
					Reverse sweep (clockwise direction)	Fluctuating	
47	GR	Front door switch LH	Input	OFF	ON (open)	0V	
47	GK	FIORE GOOF SWILCH LA	iriput	OFF	OFF (closed)	Battery voltage	
40	_	5		055	ON (open)	0V	
48	Р	Rear door switch LH	Input	OFF	OFF (closed)	Battery voltage	
					Any door open (ON)	0V	
49	L	Cargo lamp	Output	OFF	All doors closed (OFF)	Battery voltage	
51	Ο	Trailer turn signal (right)	Output	ON	Turn right ON	10 5 0 500 ms	
52	LG	Trailer turn signal (left)	Output	ON	Turn left ON	500 ms	
		Back door latch actua-			OFF	500 ms SKIA3009J	
53	L	tor	Output	OFF	ON	Battery voltage	
		Rear wiper output cir-	<u> </u>		OFF	0	
55	W	cuit 1	Output	ON	ON	Battery voltage	
56	R/Y	Battery saver output	Output	OFF	15 minutes after ignition switch is turned OFF	0V	
				ON	_	Battery voltage	
57	R/Y	Battery power supply	Input	OFF	_	Battery voltage	
58 W	Optical sensor	Input	ON	When optical sensor is illuminated	3.1V or more		
50	VV	Option Scrisor	Input	UN	When optical sensor is not illuminated	0.6V or less	
E0.	CD.	Front door lock as-	Otmt	055	OFF (neutral)	0V	
59	GR	sembly LH actuator (unlock)	Output	OFF	ON (unlock)	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

	Wire		Signal		Measuring cond	dition	Reference value or waveform
Terminal	color	Signal name	input/ output	lgnition switch	Operation	or condition	(Approx.)
60	LG	Turn signal (left)	Output	ON	Turn left ON		(V) 15 10 5 5 0 SKIA3009J
61	G	Turn signal (right)	Output	ON	Turn right ON		(V) 15 10 5 0 500 ms SKIA3009J
63	BR	Interior room/map	Output	OFF	Any door	ON (open)	0V
-		lamp		ļ	switch	OFF (closed)	Battery voltage
65	V	All door lock actuators	Output	OFF	OFF (neutral)		0V
		(lock)	J 44, 41		ON (lock)		Battery voltage
_	_	Front door lock actua-			OFF (neutral)		0V
66	L	tor RH, rear door lock actuators LH/RH and glass hatch lock actu- ator (unlock)	Output	OFF	ON (unlock)		Battery voltage
67	В	Ground	Input	ON	-		0V
			 		Ignition switch ON		Battery voltage
					Within 45 seconds after ignition switch OFF		Battery voltage
68	68 O Power window power supply (RAP)	Output	'	More than 45 seconds after ignition switch OFF		0V	
					When front door LH or RH is open or power window timer operates		0V
69	L	Power window power supply	Output		-	_	Battery voltage
70	W	Battery power supply	Input	OFF	-	_	Battery voltage

^{1:} With remote keyless entry system

Fail Safe

Fail-safe index

BCM performs fail-safe control when any DTC listed below is detected.

Display contents of CONSULT	Fail-safe	Cancellation
U1000: CAN COMM CIRCUIT	Inhibit engine cranking	When the BCM re-establishes communication with the other modules.

DTC Inspection Priority Chart

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

Revision: March 2012 BCS-45 2011 Pathfinder

^{2:} With Intelligent Key system

< ECU DIAGNOSIS INFORMATION >

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	 B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2013: STRG COMM 1 B2552: INTELLIGENT KEY B2590: NATS MALFUNCTION
3	C1729: VHCL SPEED SIG ERRC1735: IGNITION SIGNAL
4	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RR C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1710: [CODE ERR] FR C1721: [CODE ERR] FR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1726: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RR

DTC Index

NOTE:

Details of time display

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

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. Further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-29
B2013: STRG COMM 1	_	_	_	<u>SEC-30</u>
B2190: NATS ANTENNA AMP	_	_	_	SEC-33 (with I-Key) SEC-131 (without I-Key)
B2191: DIFFERENCE OF KEY	_	_		SEC-36 (with I-Key) SEC-134 (without I- Key)

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2192: ID DISCORD BCM-ECM	_	_	_	SEC-37 (with I-Key) SEC-135 (without I- Key)
B2193: CHAIN OF BCM-ECM	_	_	_	SEC-39 (with I-Key) SEC-137 (without I- Key)
B2552: INTELLIGENT KEY	_	_	_	SEC-41
B2590: NATS MALFUNCTION	_	_	_	<u>SEC-42</u>
C1708: [NO DATA] FL	_	_	_	<u>WT-14</u>
C1709: [NO DATA] FR	_	_	_	<u>WT-14</u>
C1710: [NO DATA] RR	_	_	_	<u>WT-14</u>
C1711: [NO DATA] RL	_	_	_	<u>WT-14</u>
C1712: [CHECKSUM ERR] FL	_	_	_	<u>WT-16</u>
C1713: [CHECKSUM ERR] FR	_	_	_	<u>WT-16</u>
C1714: [CHECKSUM ERR] RR	_	_	_	<u>WT-16</u>
C1715: [CHECKSUM ERR] RL	_	_	_	<u>WT-16</u>
C1716: [PRESSDATA ERR] FL	_	_	_	<u>WT-18</u>
C1717: [PRESSDATA ERR] FR	_	_	_	<u>WT-18</u>
C1718: [PRESSDATA ERR] RR	_	_	_	<u>WT-18</u>
C1719: [PRESSDATA ERR] RL	_	_	_	<u>WT-18</u>
C1720: [CODE ERR] FL	_	_	_	<u>WT-16</u>
C1721: [CODE ERR] FR	_	_	_	<u>WT-16</u>
C1722: [CODE ERR] RR	_	_	_	<u>WT-16</u>
C1723: [CODE ERR] RL	_	_	_	<u>WT-16</u>
C1724: [BATT VOLT LOW] FL	_	_	_	<u>WT-16</u>
C1725: [BATT VOLT LOW] FR	_	_	_	<u>WT-16</u>
C1726: [BATT VOLT LOW] RR	_	_	_	<u>WT-16</u>
C1727: [BATT VOLT LOW] RL	_	_	_	<u>WT-16</u>
C1729: VHCL SPEED SIG ERR	_	_	_	<u>WT-20</u>
C1735: IGNITION SWITCH	_	_	_	_

BCS

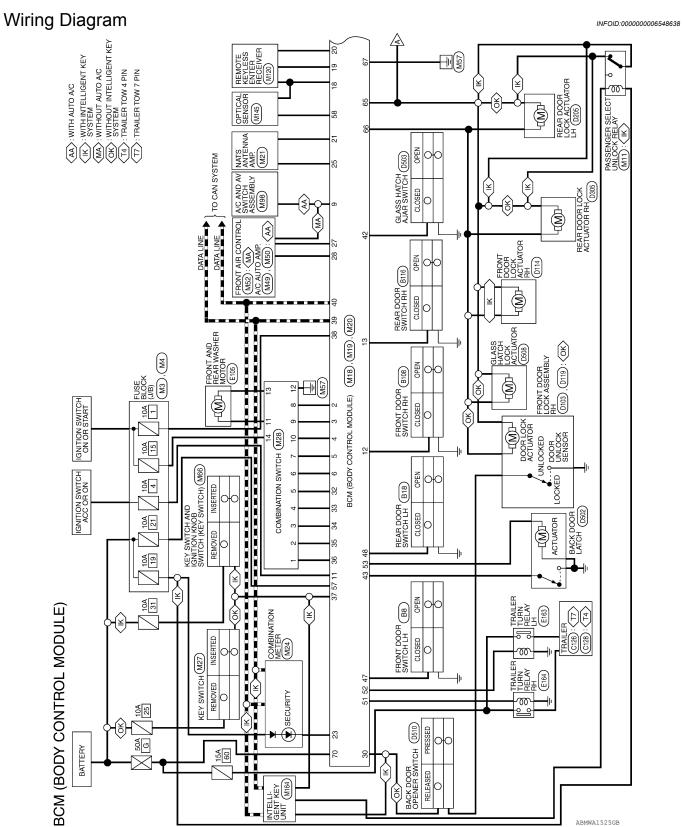
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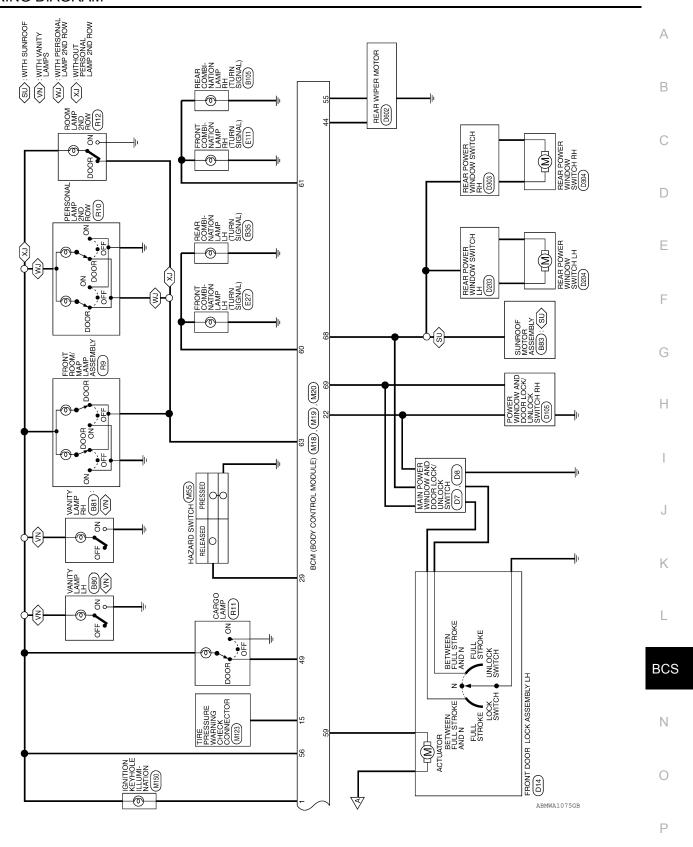
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WIRING DIAGRAM

BCM (BODY CONTROL MODULE)





BCM (BODY CONTROL MODULE) CONNECTORS

Terminal No. Color of Wire 25 BR 26 - 27 W 28 BR 29 G 31 - 29 G 32 O 32 G 34 G 34 G 35 BR 36 LG 35 BR 38 W/R 38 W/R 39 L G 40 P L	Signal Name	IMMOBILIZER ANTENNA SIGNAL (TX,RX)	1	AIRCON SW	BLOWER FAN SW	HAZARD SW	BACK DOOR AUTO CLOSURE (WITH INTELLIGENT KEY SYSTEM)	LIFTGATE OPENER SW (WITHOUT INTELLIGENT KEY SYSTEM)	I	OUTPUT 5	OUTPUT 4	OUTPUT 3	OUTPUT 2	OUTPUT 1	KEY SW	IGN SW	CAN-H	CAN-L
Terminal No. 25 26 26 27 28 30 30 31 31 31 31 32 33 33 34 34 34 34 35 36 36 37 38	Color of Wire	BR	ı	8	œ	ŋ	SB	G	ı	0	GR	ŋ	BR	LG	В	W/R	Т	۵
	Terminal No.	25	26	27	28	29	30	30	31	32	33	34	35	36	37	38	39	40

Signal Name	TRAILER FLASHER OUTPUT (LEFT)	LIFTGATE OPENER OUTPUT	ı	REAR WIPER MOTOR OUTPUT1
Color of Wire	re	٦	1	8
Terminal No. Wire	52	53	54	55

erminal No.	Color of Wire	Signal Name
11	G/B	ACC SW
12	re	DOOR SW (AS)
13	٦	DOOR SW (RR)
14	ı	1
15	8	TPMS MODE TRIGGER SW
16	ı	1
17	ı	1
18	BB	KEYLESS AND AUTO LIGHT SENSOR GND
19	>	KEYLESS TUNER POWER SUPPLY OUTPUT
20	g	KEYLESS TUNER SIGNAL
21	GR	IMMOBILIZER ANTENNA SIG (CLOCK)
22	>	ANTI-PINCH SERIAL LINK (RX,TX)
23	В	SECURITY INDICATOR OUTPUT

Signal Name	REAR WIPER AUTO STOP SW1	1	ı	DOOR SW (DR)	DOOR SW (RL)	LUGGAGE LAMP OUTPUT	-	TRAILER FLASHER OUTPUT (RIGHT)
Color of Wire	0	1	1	GR	Ь	L	_	0
Terminal No.	44	45	46	47	48	49	20	51

				19 20 39 40											
8	BCM (BODY CONTROL MODULE)	WHITE		9 10 11 12 13 14 15 16 17 18 1	Signal Name	KEY RING OUTPUT	INPUT 5	INPUT 4	8 TUPNI	S TUPNI	INPUT 1	-	1	REAR DEFOGGER SW	
M18		Н	<u>[</u>	6 7 8 26 27 28	Color of Wire	BB	۵	SB	>	٦	æ	ı	1	>	
Connector No.	Connector Name	Connector Color	明.S.H.S.	1 2 3 4 5 (21 22 23 24 25 2	Terminal No.	F	2	ဇ	4	5	9	7	8	6	

Connector No.	o. M19	0
Connector Name		BCM (BODY CONTROL MODULE)
Connector Color WHITE	olor WF	HTE
原 H.S.	14 2	41 42 43 44 45 46 47 48 49
Terminal No.	Color of Wire	Signal Name
41	1	-
42	re	GLASS HATCH SW
43	Ь	BACK DOOR SW

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Signal Name	FLASHER OUTPUT (RIGHT)	ı	ROOM LAMP	I	DOOR LOCK OUTPUT (ALL)	DOOR UNLOCK OUTPUT (OTHER)	GND (POWER)	POWER WINDOW POWER SUPPLY OUTPUT (LINKED TO RAP)	POWER WINDOW POWER SUPPLY OUTPUT (BAT)	BAT (F/L)	
Color of Wire	G	1	BR	ı	^	7	В	0	Г	M	
Terminal No.	61	62	63	64	65	99	29	89	69	70	

Color of		LG	BB	ŋ	GR	0	ж	7	<u>م</u>	SB	10 V O	O WASHE	12 B	13 L WASHE	14 W/G
	Signal Name	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5	OUTPUT 1	OUTPUT 2	OUTPUT 5	OUTPUT 4	оптрит з	WASHER MOTOR (RR+)	GND	WASHER MOTOR (RR-)	IGN

Connector No.	M20
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK
	1000 00100 00100 00100

Signal Name	BATTERY SAVER OUTPUT	BAT (FUSE)	AUTO LIGHT SENSOR INPUT 2	DOOR UNLOCK OUTPUT (DR)	FLASHER OUTPUT (LEFT)
Color of Wire	R/Y	R/Υ	W	GR	LG
Terminal No. Wire	56	22	58	59	09

0 4 2000	0000
COLINECTOR INC.	IVIZO
Connector Name	Connector Name COMBINATION SWITC
Connector Color WHITE	WHITE



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COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table

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

																	Malfunction item:
							Data	monite	or item	1							
TURN SIGNAL R	TURN SIGNAL L	HI BEAM SW	HEADLAMP SW 1	HEADLAMP SW 2	TAIL LAMP SW	PASSING SW	AUTO LIGHT 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
								×					×	×			E
									×				×		×		F
												×	×	×		×	G
							×			×	×						Н
	×			×		×		×									I
×		×	×		×												J
		•	•		Co	mbina	tions (other t	han the	ose ab	ove	•		•			К
							,	All Iten	ns								L
		If only	one i	tem is	detect	ed or t	he iter	n is no	t appli	cable t	to the	combir	nations	A to L	-		M

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

Malfunction combination	Malfunctioning part	Repair or replace
A	Combination switch INPUT 1 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-32, "Diagnosis Procedure".
В	Combination switch INPUT 2 circuit	
С	Combination switch INPUT 3 circuit	
D	Combination switch INPUT 4 circuit	
E	Combination switch INPUT 5 circuit	
F	Combination switch OUTPUT 1 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to BCS-34, "Diagnosis Procedure".
G	Combination switch OUTPUT 2 circuit	
Н	Combination switch OUTPUT 3 circuit	
I	Combination switch OUTPUT 4 circuit	
J	Combination switch OUTPUT 5 circuit	
K	Light and turn signal switch or front wiper and washer switch	Refer to BCS-35, "Description".
L	ВСМ	Replace BCM. Refer to BCS-55, "Removal and Installation".
М	Light and turn signal switch or front wiper and washer switch	Replace the switch that cannot be operated.

PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYS-TEM).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
- Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.

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PRECAUTIONS

< PRECAUTION >

- 5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- 6. Perform a self-diagnosis check of all control units using CONSULT-III.

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

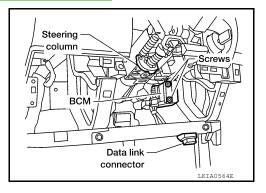
Removal and Installation

REMOVAL

NOTE:

If possible, before removing BCM, retrieve current BCM configuration to use for reference when configuring brand-new BCM after installation. Refer to <u>BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement"</u>.

- 1. Disconnect the battery negative terminal.
- Remove the instrument lower panel LH. Refer to <u>IP-14</u>, "Removal and Installation".
- 3. Remove the BCM screws and release the BCM.
- Disconnect the BCM connectors and then remove the BCM.



INSTALLATION

Installation is in the reverse order of removal.

- When replacing the BCM, it must be configured. Refer to <u>BCS-4, "CONFIGURATION: Special Repair Requirement".</u>
- When replacing the BCM, perform initialization of NATS system and registration of all NATS ignition key IDs. Refer to <u>SEC-10</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- When replacing the BCM, perform ID registration procedure of low tire pressure warning system. Refer to WT-6, "ID Registration Procedure".
- When replacing the BCM, register the remote keyless entry system keyfob ID codes. Refer to <u>DLK-10</u>, <u>"ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"</u>.
- When replacing the BCM, perform adjustment procedure for the steering angle sensor. Refer to <u>BRC-12</u>.
 "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION: Special Repair Requirement".

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