# SECTION BODY CONTROL SYSTEM

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# PRECAUTIONS

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# Precautions 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 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 SRS 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 for Battery Service**

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

# BCM (BODY CONTROL MODULE)

### System Description

BCM (Body Control Module) controls the operation of various electrical units installed on the vehicle.

### **BCM FUNCTION**

BCM has combination switch reading function for reading the operation of combination switches (light, wiper, washer and turn signal) in addition to a function for controlling the operation of various electrical components. Also it has an interface function allowing it to receive signals from the unified meter and A/C amp., and send <sup>C</sup> signals to ECM using CAN communication.

### COMBINATION SWITCH READING FUNCTION

### Description

- BCM reads combination switch (lighting switch, wiper switch) status, and controls various electrical component, according to the results.
- BCM reads information of a maximum of 20 switches by combining five output terminals (OUTPUT 1-5) and five input terminals (INPUT 1-5).

### **Operation Description**

- BCM activates transistors of output terminals (OUTPUT 1-5) periodically and, allows current to flow in turn.
- If any (1 or more) switches are turned ON, circuit of output terminals (OUTPUT 1-5) and input terminals G (INPUT 1-5) becomes active.
- At this time, transistors of output terminals (OUTPUT 1-5) are activated to allow current to flow. When voltage of input terminals (INPUT 1-5) corresponding to that switch changes, interface in BCM detects voltage change, and BCM determines that switch is ON.

			BCM
	Combination switch	·····	+ []
		Οι	utput 1 +
HEADLAMP 1			utput 2 +
HI BEAM	HEADLAMP 2		itput 3
×1		OOu WIPER INT %2	
-⊧◀			
	LIGHTING SW WIPER SW		put 1
			put 2 1/F 1 put 3
			I/F 1/F
		In	iput 5

**※1: LIGHTING SWITCH 1ST POSITION** 

%2: COUPE MODELS

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### **Operation Table of BCM and Combination Switches**

• BCM reads operation status of combination switch using combinations shown in table below.

		B SW PUT 1		B SW PUT 2				B SW PUT 4		B SW PUT 5
	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
COMB SW INPUT 1	_	_	FR WIPER HI ON	FR WIPER HI OFF	INT VOLUME 1 ON	INT VOLUME 1 OFF	RR WIPER INT ON ※	RR WIPER INT OFF※	INT VOLUME 2 ON	INT VOLUME 2 OFF
COMB SW INPUT 2	FR WASHER ON	FR WASHER OFF	_	_	RR WASHER ON ※	RR WASHER OFF ※	INT VOLUME 3 ON	INT VOLUME 3 OFF	RR WIPER ON ※	RR WIPER OFF ※
COMB SW INPUT 3	FR WIPER LOW ON	FR WIPER LOW OFF	FR WIPER INT ON	FR WIPER INT OFF	_	_	_	_	_	_
COMB SW INPUT 4	TURN LH ON	TURN LH OFF	PASSING ON	PASSING OFF	HEAD- LAMP 2 ON	HEAD- LAMP 2 OFF	_	_	_	_
COMB SW INPUT 5	TURN RH ON	TURN RH OFF	HEAD- LAMP 1 ON	HEAD- LAMP 1 OFF	HI BEAM ON	HI BEAM OFF	LIGHTING SW (1st) ON	LIGHTING SW (1st) OFF	_	_

※: COUPE MODELS

PKIA7242E

### NOTE:

Headlamp has a dual system switch.

### Sample Operation (When Lighting switch 1ST Position Turned ON)

- When lighting switch 1ST position is turned ON, contact in combination switch turns ON. At this time if OUTPUT 4 transistor is activated, BCM detects that voltage changes in INPUT 5.
- When OUTPUT 4 transistor is ON, BCM detects that voltage changes in INPUT 5, and judges that lighting switch 1ST position is ON. Then BCM sends lighting switch (1ST position) ON signal to IPDM E/R using CAN communication.
- When OUTPUT 4 transistor is activated again, BCM detects that voltage changes in INPUT 5, and recognizes that lighting switch 1ST position is continuously ON.

	ВСМ	
Combination switch	+	
	Output 1	E
HEADLAMP 1 PASSING FR WIPER INT FR WIPER HI	Output 2 +	F
HI BEAM HEADLAMP 2	Output 3	Γ
×1 → → → → → → → → → → → → → → → → → → →		0
	Output 5 - 2	ŀ
LIGHTING SW WIPER SW	Input 1 Input 2	
		I
	Input 4 I/F	

%1 : LIGHTING SWITCH 1ST POSITION %2 : COUPE MODELS

### NOTE:

Each OUTPUT terminal transistor is activated at 10 ms intervals. Therefore after switch is turned ON, electrical loads are activated with time delay. But this time delay is so short that it cannot be detected by human senses.

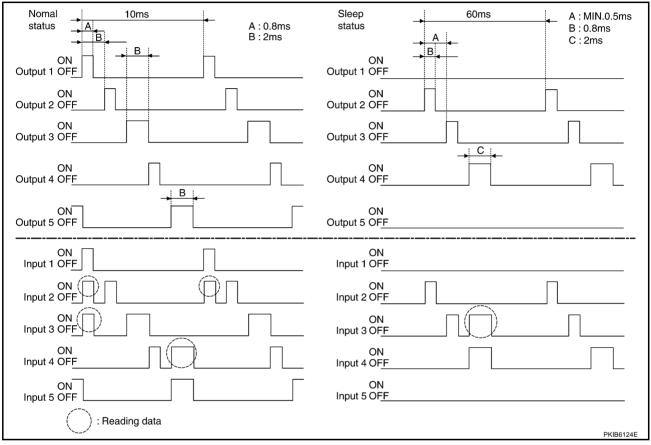
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### **Operation Mode**

- Combination switch reading function has operation modes shown below.
- 1. Normal status
  - When BCM is not in sleep status, OUTPUT terminals (1-5) each send out ON signal every 10 ms.
- 2. Sleep status
  - When BCM is in sleep status, transistors of OUTPUT 1 and 5 stop the output, and BCM enters low power mode. Mean while OUTPUT 2, 3, and 4 send out ON signal every 60 ms, and only input from light switch system.



### **CAN COMMUNICATION CONTROL**

CAN communication allows a high rate of information transmission through the two communication lines (CAN L line, CAN H line) connecting the various control units in the system. Each control unit transmits/receives data but selectively reads required data only. For details of signals that are transmitted/received by BCM via CAN communication, refer to LAN-21, "CAN Communication Unit".

BC	M STATUS CONTROL	
BC	M changes its status depending on the operation status in order to save power consumption.	А
1.	CAN communication status	
	<ul> <li>With ignition switch ON, CAN communicates with other control units normally.</li> </ul>	
	<ul> <li>Control by BCM is being operated properly.</li> </ul>	В
	<ul> <li>When ignition switch is OFF, switching to sleep mode is possible.</li> </ul>	
	• Even when ignition switch is OFF, if CAN communication with IPDM E/R and combination meter is active, CAN communication status is active.	С
2.	Sleep transient status	
	<ul> <li>This status shuts down CAN communication when ignition switch is turned OFF.</li> </ul>	D
	<ul> <li>It transmits sleep request signal to IPDM E/R and combination meter.</li> </ul>	
	• Two seconds after CAN communication of all control units stops, sleep transient status switches to CAN	
	communication inactive status.	Е
3.	CAN communication inactive status	
	With ignition switch OFF, CAN communication is not active.	
	With ignition switch OFF, control performed only by BCM is active.	F
	• Three seconds after CAN communication of all control units stops, CAN communication inactive status switches to sleep status.	
4.	Sleep status	G
	<ul> <li>BCM is activated with low power mode.</li> </ul>	
	<ul> <li>CAN communication is not active.</li> </ul>	Н
	<ul> <li>When CAN communication operation is detected, it switches to CAN communication status.</li> </ul>	
	<ul> <li>When a state of the following switches changes, it switches to CAN communication state.</li> </ul>	
	<ul> <li>Key switch</li> </ul>	1
	- Hazard switch	
	<ul> <li>Door lock/unlock switch</li> </ul>	
	<ul> <li>Front door switch (driver side, passenger side)</li> </ul>	J
	<ul> <li>Back door opener switch</li> </ul>	
	<ul> <li>Combination switch (passing, lighting switch 1st position)</li> </ul>	
	<ul> <li>Key fob (lock/unlock signal)</li> </ul>	BCS
	<ul> <li>Key cylinder switch</li> </ul>	
	• When control performed only by BCM is required by switch, it shifts to CAN communication inactive mode.	L

• Status of combination switch reading function is changed.

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### SYSTEMS CONTROLLED BY BCM DIRECTLY

System	Reference
Power door lock	BL-21, "POWER DOOR LOCK SYSTEM"
Remote keyless entry	BL-62, "REMOTE KEYLESS ENTRY SYSTEM"
Power window NOTE 1	GW-18, "POWER WINDOW SYSTEM"
Power seat NOTE 1	SE-12, "POWER SEAT/FOR COUPE" or SE-15, "POWER SEAT/FOR ROADSTER"
Room lamp timer	LT-214, "INTERIOR ROOM LAMP"
Rear wiper NOTE 2	WW-38, "REAR WIPER AND WASHER SYSTEM"

### NOTE:

1. Power supply only. No system control.

2. Coupe models

### SYSTEMS CONTROLLED BY BCM AND IPDM E/R

System	Reference
Panic alarm	BL-62, "REMOTE KEYLESS ENTRY SYSTEM"
Theft warning	BL-134, "VEHICLE SECURITY (THEFT WARNING) SYSTEM"
NVIS (NATS)	BL-164, "NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)"
	• LT-7, "HEADLAMP (FOR USA) - XENON TYPE -"
Headlamp, clearance lamp tail lamp, Battery	• LT-38, "HEADLAMP (FOR USA) - CONVENTIONAL TYPE -"
saver control, day time light system	• LT-67, "HEADLAMP (FOR CANADA) - XENON TYPE -"
	• LT-108, "HEADLAMP (FOR CANADA) - CONVENTIONAL TYPE -"
Front wiper	WW-4, "FRONT WIPER AND WASHER SYSTEM"
Rear window defogger	GW-57, "REAR WINDOW DEFOGGER"

### SYSTEMS CONTROLLED BY BCM AND COMBINATION METER

System	Reference
Warning chime	DI-79, "WARNING CHIME"
Turn signal and hazard warning lamps	LT-147, "TURN SIGNAL AND HAZARD WARNING LAMPS"
Low tire pressure warning system	WT-10, "LOW TIRE PRESSURE WARNING SYSTEM"

### MAJOR COMPONENTS AND CONTROL SYSTEM

System	Input	Output	A
Pamata control entry system	Pomoto kouloss ontru rospiuor	All-door locking actuator	_
Remote control entry system	Remote keyless entry receiver	<ul> <li>Turn signal lamp (LH, RH)</li> </ul>	В
Power door lock system	<ul> <li>Power window main switch (door lock and unlock switch)</li> <li>Power window sub switch (passenger side) (door lock and unlock switch)</li> </ul>	All-door locking actuator	C
Power supply (IGN) to power window	Ignition power supply	Power window system	_
Power supply (BAT) to power window and		Power window system and power	_ D
power seat	Battery power supply	seat	
Panic alarm	<ul><li>Key switch</li><li>Remote keyless entry receiver</li></ul>	IPDM E/R	E
	All-door switch		_
Theft warning system	Remote keyless entry receiver	• IPDM E/R	
Then warning system	<ul> <li>Power window main switch (door lock and unlock switch)</li> </ul>	<ul> <li>Security indicator lamp</li> </ul>	F
	Ignition switch		
Battery saver control	Combination switch	IPDM E/R	G
Headlamp	Combination switch	IPDM E/R	
	Engine speed signal		Н
Day time light system	Ignition switch	IPDM E/R	
	Combination switch		
Tail lamp	Combination switch	IPDM E/R	-
	Combination switch	Turn signal lamp	_
Turn signal lamp	Combination switch	Combination meter	
Hazard lamp	Hazard switch	Turn signal lamp	J
nazaru lamp		Combination meter	
	Key switch		BC
	<ul> <li>Remote keyless entry receiver</li> </ul>		DU
Room lamp timer	<ul> <li>Power window main switch (door lock and unlock switch)</li> </ul>	Interior room lamp	
	• Front door switch driver side		L
	<ul> <li>All-door switch</li> </ul>		
Key warning chime	Key switch	Combination meter	M
	Front door switch driver side	(warning buzzer)	
	Combination switch	Combination meter	
Light warning chime	Key switch	(warning buzzer)	
	Front door switch driver side		_
Seat belt warning chime	<ul> <li>Combination meter [Seat belt buckle (driver side) switch]</li> </ul>	Combination meter	
	Ignition switch	(warning buzzer)	
	Combination switch		_
Vehicle-speed-sensing intermittent wiper	Combination meter	IPDM E/R	
Rear intermittent wiper NOTE	Combination switch	Rear wiper motor	_
Rear window defogger	Rear window defogger switch	IPDM E/R	
	Ignition switch		
A/C switch signal	Unified meter and A/C amp.	ECM	

System	Input	Output
Blower fan switch signal	Unified meter and A/C amp.	ECM
Low tire pressure warning system	Remote keyless entry receiver	Combination meter

NOTE:

Coupe models

# **CAN Communication System Description**

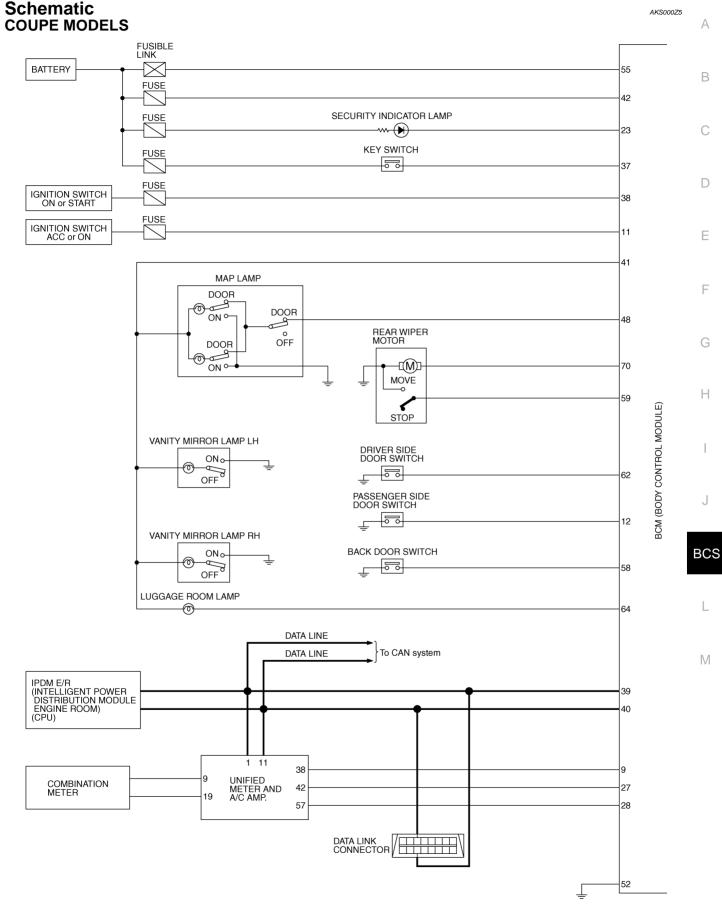
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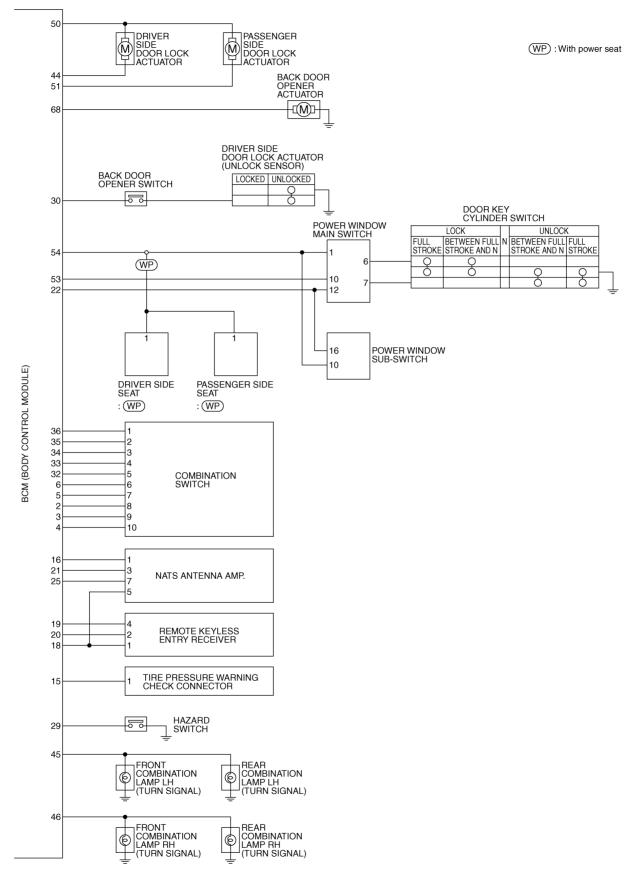
CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicles are equipped with many electronic control units and each control unit shares 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 Unit**

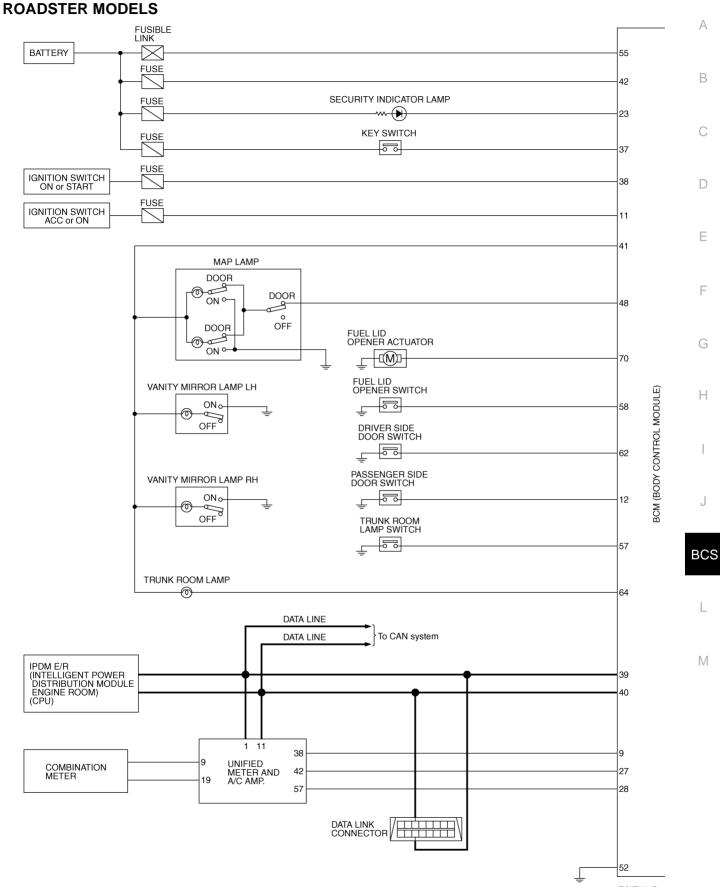
Refer to LAN-21, "CAN Communication Unit" .

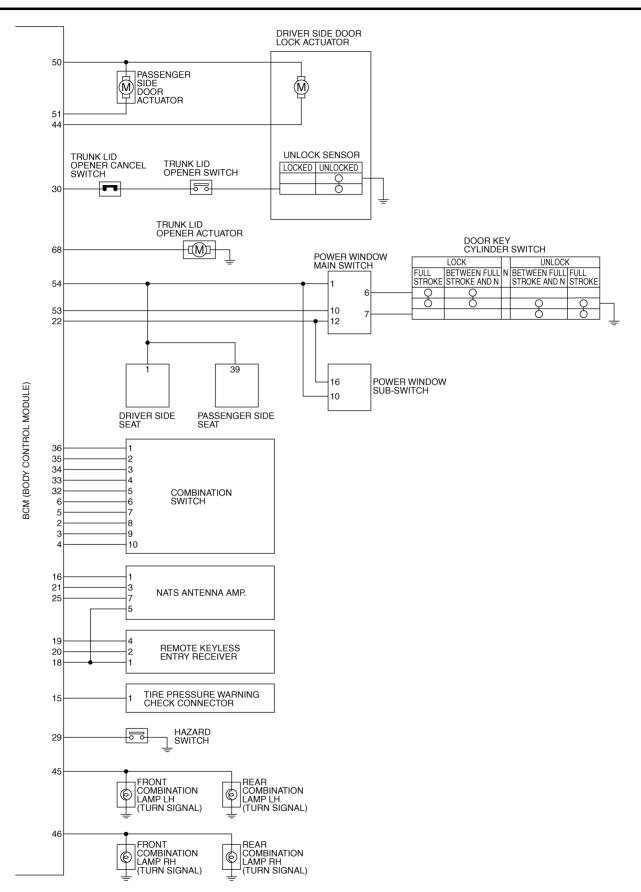


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TKWT2340E





TKWT2341E

# **CONSULT-II Function (BCM)**

CONSULT-II can display each diagnostic item using the diagnostic test mode shown following.

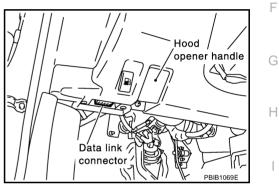
BCM diagnostic test item	Check item, diagnostic test mode	Content	
Inspection by part	WORK SUPPORT	Changes setting of each function.	В
	SELF-DIAG RESULTS	BCM performs self-diagnosis of CAN communication.	
	DATA MONITOR	Displays the input data of BCM in real time.	
	ACTIVE TEST	Gives a drive signal to a load to check the operation.	C
	CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN com- munication can be read.	
	ECU PART NUMBER	ECM part number can be read.	L

### **CONSULT-II BASIC OPERATION**

### **CAUTION:**

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication.

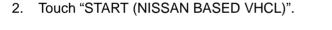
1. With the ignition switch OFF, connect CONSULT-II and CON-SULT-II CONVERTER to the data link connector, then turn the ignition switch ON.

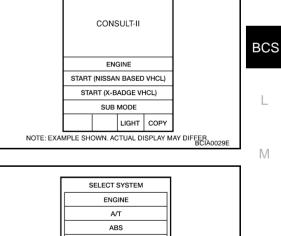


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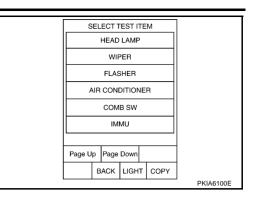




3. Touch "BCM" on "SELECT SYSTEM" screen. If "BCM" is not indicated, go to <u>GI-39, "CONSULT-II Data Link</u> <u>Connector (DLC) Circuit"</u>.

	:	SELECT	SYSTEM	1	
		ENC	GINE		
		A	/т		
		A	BS		
	AIR BAG				
		IPDM	/I E/R		
		во	м		
			Page	Down	
		васк		COPY	
NOTE: EXAM	IPLE SHO	OWN. AC	TUAL D	ISPLAY M	AY DIFFER BCIA0030E

4. Select the desired part to be diagnosed on the "SELECT TEST ITEM" screen.



### **ITEMS OF EACH PART**

NOTE:

CONSULT-II displays systems equipped in the vehicle.

×:Applicable

			Diagr	nostic test m	ode (Inspe	ection by par	t)	
System and item	CONSULT-II display	WORK SUPPORT	SELF- DIAG RESULTS	DATA MONI- TOR	CAN DIAG SUP- PORT MNTR	ACTIVE TEST	ECU PART NUM- BER	CON- FIGU- RATION
BCM	BCM	×	×		×		×	×NOTE
Power door lock system	DOOR LOCK	×		×		×		
Rear window defogger	REAR DEFOGGER			×		×		
Warning chime	BUZZER			×		×		
Room lamp timer	INT LAMP	×		×		×		
Remotecontrol entry system	MULTI REMOTE ENT	×		×		×		
Headlamp	HEAD LAMP	×		×		×		
Wiper	WIPER	×		×		×		
Turn signal lamp Hazard lamp	FLASHER			×		×		
Blower fan switch signal A/C switch signal	AIR CONDITONER			×				
Combination switch	COMB SW			×				
NVIS	IMMU			×		×		
Room lamp battery saver	BATTERY SAVER	×		×		×		
Trunk lid	TRUNK			×		×		
Vehicle security system	THEFT ALM	×		×		×		
Retained power control	RETAINED PWR	×		×		×		
Oil pressure switch	SIGNAL BUFFER			$\times^{NOTE}$		×		
Fuel lid	FUEL LID			×		×		
Low tire pressure warning system	AIR PRESSURE MONITOR	×		×		×		
Panic system	PANIC ALARM					×		

### NOTE:

This item is displayed, but should not be used.

•	eration Procedure		
1.			
2.		PORT" on "SELECT DIAG MODE" screen.	
3.		ECT WORK ITEM" screen.	
4.	Touch "START".		
5.	Touch "CHANGE SE	ΞΤ".	
6.	The setting will be cl	hanged and "RESETTING COMPLETED" will be displayed.	
7.	Touch "END".		
Dis	splay Item List		
	-		
	Item	Description	
	RESET SETTING VALUE	Return a value set with WORK SUPPORT of each system to a default value in factory shi	oment.
CA 1. CA	AN Communicat SELF-DIAGNOSTIC UTION: CONSULT-II is used	Return a value set with WORK SUPPORT of each system to a default value in factory shi tion Inspection Using CONSULT-II (Self-Diagnosis) CRESULT CHECK d with no connection of CONSULT-II CONVERTER, malfunctions	AKS0002
CA 1. If def	RESET SETTING VALUE AN Communicat SELF-DIAGNOSTIC UTION: CONSULT-II is used tected in self-diagno	Return a value set with WORK SUPPORT of each system to a default value in factory shi tion Inspection Using CONSULT-II (Self-Diagnosis) CRESULT CHECK d with no connection of CONSULT-II CONVERTER, malfunctions posis depending on control unit which carry out CAN communication.	AKS0002
CA If def 1.	RESET SETTING VALUE AN Communicat SELF-DIAGNOSTIC UTION: CONSULT-II is used tected in self-diagno Connect to CONSUL	Return a value set with WORK SUPPORT of each system to a default value in factory shi tion Inspection Using CONSULT-II (Self-Diagnosis) CRESULT CHECK d with no connection of CONSULT-II CONVERTER, malfunctions basis depending on control unit which carry out CAN communication. LT-II, and select "BCM" on "SELECT SYSTEM" screen.	AKSOOOZ
CA 1. CA If def 1. 2.	RESET SETTING VALUE AN Communicat SELF-DIAGNOSTIC UTION: CONSULT-II is used tected in self-diagno Connect to CONSUL Select "BCM control	Return a value set with WORK SUPPORT of each system to a default value in factory shi tion Inspection Using CONSULT-II (Self-Diagnosis) CRESULT CHECK d with no connection of CONSULT-II CONVERTER, malfunctions bis depending on control unit which carry out CAN communication. LT-II, and select "BCM" on "SELECT SYSTEM" screen. I unit " on "SELECT WORK ITEM" screen, and select "SELF-DIAG RESUL	AKSOOOZ
CA I If def 1.	RESET SETTING VALUE AN Communicat SELF-DIAGNOSTIC UTION: CONSULT-II is used tected in self-diagno Connect to CONSUL Select "BCM control	Return a value set with WORK SUPPORT of each system to a default value in factory shi tion Inspection Using CONSULT-II (Self-Diagnosis) CRESULT CHECK d with no connection of CONSULT-II CONVERTER, malfunctions basis depending on control unit which carry out CAN communication. LT-II, and select "BCM" on "SELECT SYSTEM" screen.	AKSOOOZ
CA 1. CA If def 1. 2.	RESET SETTING VALUE AN Communicat SELF-DIAGNOSTIC UTION: CONSULT-II is used tected in self-diagno Connect to CONSUL Select "BCM control	Return a value set with WORK SUPPORT of each system to a default value in factory shi tion Inspection Using CONSULT-II (Self-Diagnosis) CRESULT CHECK d with no connection of CONSULT-II CONVERTER, malfunctions bis depending on control unit which carry out CAN communication. LT-II, and select "BCM" on "SELECT SYSTEM" screen. I unit " on "SELECT WORK ITEM" screen, and select "SELF-DIAG RESUL ent in self-diagnostic results.	aksoood
C/ 1. CA If det 1. 2.	RESET SETTING VALUE AN Communicat SELF-DIAGNOSTIC UTION: CONSULT-II is used tected in self-diagno Connect to CONSUL Select "BCM control Check display conte	Return a value set with WORK SUPPORT of each system to a default value in factory shi tion Inspection Using CONSULT-II (Self-Diagnosis) CRESULT CHECK d with no connection of CONSULT-II CONVERTER, malfunctions bis depending on control unit which carry out CAN communication. LT-II, and select "BCM" on "SELECT SYSTEM" screen. I unit " on "SELECT WORK ITEM" screen, and select "SELF-DIAG RESUL ent in self-diagnostic results.	aksooo
C/ 1. CA If det 1. 2.	RESET SETTING VALUE AN Communicat SELF-DIAGNOSTIC UTION: CONSULT-II is used tected in self-diagno Connect to CONSUL Select "BCM control Check display conte	Return a value set with WORK SUPPORT of each system to a default value in factory shi         tion Inspection Using CONSULT-II (Self-Diagnosis)         C RESULT CHECK         d with no connection of CONSULT-II CONVERTER, malfunctions         osis depending on control unit which carry out CAN communication.         LT-II, and select "BCM" on "SELECT SYSTEM" screen.         I unit " on "SELECT WORK ITEM" screen, and select "SELF-DIAG RESUL"         ent in self-diagnostic results.         splay code       Diagnosis item	aksoood

Contents displayed

No malfunction>>INSPECTION END

Malfunction in CAN communication system>>After printing the monitor items, go to "CAN System". Refer to LAN-3, "Precautions When Using CONSULT-II".

IPDM E/R METER / M&A

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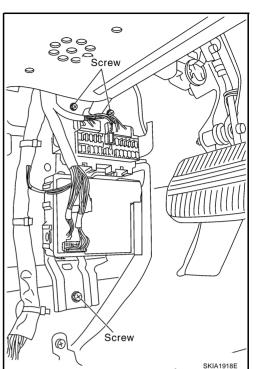
### **Removal and Installation of BCM** REMOVAL

- 1. Remove the dash side finisher (LH). Refer to EI-35, "BODY SIDE TRIM" in "EI Exterior/Interior."
- 2. Disconnect BCM connector.
- 3. Remove bracket mounting screws (3) to remove BCM and fuse block with bracket.

- Ô Pawl  $\|$
- 4. Raise the pawl of fuse block and remove bracket from fuse block to remove BCM.

## **INSTALLATION**

Installation is the reverse order of removal.



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