SECTION BODY CONTROL SYSTEM

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PRECAUTIONS

PRECAUTIONS

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.

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 a combination switch reading function for reading the operation of combination switches (light, wiper washer, turn signal) in addition to the function for controlling the operation of various electrical components. Also, it functions as an interface that receives signals from the A/C control unit, and sends signals to ECM using CAN communication.

COMBINATION SWITCH READING FUNCTION

- 1. Description
 - BCM reads combination switch (light, wiper) status, and controls various electrical components 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).
- 2. Operation description
 - BCM activates transistors of output terminals (OUTPUT 1-5) periodically and allows current to flow in turn.
 - If any (1 or more) of the switches are turned ON, circuit of output terminals (OUTPUT 1-5) and input terminals (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.

	Combination switch		BCM
		FR WASHER	Output 1
HEADLAMP 1		IT FR WIPER HI	Output 2
	HEADLAMP 2	RR WASHER INT VOLUME 1	Output 3
◆ ∢	AUTO LIGH		
• ●+ ◀┘ ,			
•		wiper sw	Input 1
			Input 2
			Input 3 ///F
			Input 5
※1 : LIGHTING SV	WITCH 1ST POSITION		LIIA0757E

- 3. BCM Operation table of combination switch
 - BCM reads operation status of combination switch by the combination shown in the following table.

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		B SW PUT 1		B SW PUT 2	COME OUTP			BSW PUT4		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			AUTO LIGHT ON	AUTO LIGHT OFF		
COMB SW INPUT 4	TURN LH ON	TURN LH OFF	PASSING ON	PASSING OFF	HEAD- LAMP 2 ON	HEAD- LAMP 2 OFF			FR FOG ON	FR FOG 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		
		••••••	•	•		•			•	SKIA4959E

NOTE:

Headlamp has a dual system switch.

- 4. Example 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 lighting switch 1st position is ON. Then BCM sends tail lamp 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.

	Combination sw	itch		BC	M
	••••••••••••••••••••••••••••••••••••••		⊢ ₩	Output 1	+
HEADLAMP 1			FR WIPER HI	Output 2	J
	HEADLAMP 2	RR WASHER		Output 3	
€ 				Output 4	
			INT VOLUME 2	Output 5	
	LIGHTING SW	WIPER SW		Input 1 I/F	
				Input 3	
		$\Box \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$		Input 4 I/F	

NOTE:

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

- 5. Operation mode
 - Combination switch reading function has operation modes as follows:

Normal status

• When BCM is not in sleep status, OUTPUT terminals (1-5) each turn ON-OFF every 10 ms. Sleep status

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• When BCM is in sleep mode, transistors of OUTPUT 1 and 5 stop the output, and BCM enters low-current-consumption mode. OUTPUTS (2, 3, and 4) turn ON-OFF at 60ms intervals, and receives lighting switch input only.

Nomal 10ms A : 0.8ms B : 2ms	Sleep status 60ms A : MIN.0.5ms B : 0.8ms C : 2ms
ON	ON → B → ON
Output 1 OFF	Output 1 OFF
ON	ON
Output 2 OFF	Output 2 OFF
ON Output 3 OFF	
ON	ON
Output 4 OF <u>F</u>	Output 4 OFF
ON	ON
Output 5 OFF	Output 5 OFF
ON	ON
Input 1 OFF	Input 1 OFF
	ON Input 2 OFF
ON Input 3 OFF	ON Input 3 OFF
ON	ON
Input 4 OFF	Input 4 OFF
ON	- ON
Input 5 OFF	Input 5 OF <u>F</u>
: Reading data	PKIB6124E

CAN COMMUNICATION CONTROL

CAN communication allows a high rate of information through the two communication lines (CAN-L, CAN-H) connecting the various control units in the system. Each control unit transmits/receives data, but selectively reads required data only.

BCM STATUS CONTROL

BCM changes its status depending on the operation status in order to save power consumption.

- 1. CAN communication status
 - With ignition switch ON, CAN communicates with other control units normally.
 - Control by BCM is being operated properly.
 - When ignition switch is OFF, switching to sleep mode is possible.
 - Even when ignition switch is OFF, if CAN communication with IPDM E/R and combination meter is active, CAN communication status is active.
- 2. Sleep transient status
 - This status shuts down CAN communication when ignition switch is turned OFF.
 - It transmits sleep request signal to IPDM E/R and combination meter.
 - Two seconds after CAN communication of all control units stops, CAN communication switches to inactive status.
- 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.
 - Three seconds after CAN communication of all control units stops, CAN communication switches to inactive status.
- 4. Sleep status

Revision: February 2005

	 BCM is activated with low current consumption mode. 	
	 CAN communication is not active. 	A
	 When CAN communication operation is detected, it switches to CAN communication status. 	
	 When a state of the following switches changes, it switches to CAN communication state: 	
	 Ignition switch 	В
	 Key switch 	
	- Hazard switch	С
	 Door lock/unlock switch 	0
	 Front door switch (LH, RH) 	
	 Rear door switch (LH, RH) 	D
	 Back door switch 	
	 Combination switch (passing, lighting switch 1st position, front fog lamp) 	
	 Keyfob (lock/unlock signal) 	Е
	 Door lock assembly LH (key cylinder switch) 	
	 Back door key cylinder switch 	_
	• When control performed only by BCM is required by switch, it shifts to CAN communication inactive	F
	mode.	
	 Status of combination switch reading function is changed. 	G
SY	STEMS CONTROLLED BY BCM DIRECTLY	0
•	Power door lock system. Refer to <u>BL-16, "POWER DOOR LOCK SYSTEM"</u> .	
•	Remote keyless entry system. Refer to <u>BL-43, "REMOTE KEYLESS ENTRY SYSTEM"</u> .	Н
•	Power window system. Refer to <u>GW-15, "POWER WINDOW SYSTEM"</u> . NOTE	
•	Room lamp timer. Refer to LT-114, "INTERIOR ROOM LAMP".	
•	Warning chime system. Refer to <u>DI-39, "WARNING CHIME"</u> .	
•	Turn signal and hazard warning lamps system. Refer to LT-56, "TURN SIGNAL AND HAZARD WARNING	
	LAMPS".	J
•	Rear wiper and washer system. Refer to <u>WW-35, "REAR WIPER AND WASHER SYSTEM"</u> .	0
-	DTE:	
Po	wer supply only. No system control.	BCS
SY	STEMS CONTROLLED BY BCM AND IPDM E/R	
•	Panic system. Refer to <u>BL-43, "REMOTE KEYLESS ENTRY SYSTEM"</u> .	
•	Vehicle security (theft warning) system. Refer to <u>BL-71, "VEHICLE SECURITY (THEFT WARNING) SYS-</u> <u>TEM"</u> .	L

- Headlamp, tail lamp, auto light and battery saver control systems. Refer to <u>LT-88</u>, "PARKING, <u>LICENSE</u> <u>PLATE AND TAIL LAMPS</u>", <u>LT-5</u>, "<u>HEADLAMP (FOR USA)</u>" or <u>LT-31</u>, "<u>HEADLAMP (FOR CANADA)</u> - <u>M</u> <u>DAYTIME LIGHT SYSTEM -</u>".
- Front wiper and washer system. Refer to <u>WW-4, "FRONT WIPER AND WASHER SYSTEM"</u>.
- Rear window defogger system. Refer to <u>GW-62, "REAR WINDOW DEFOGGER"</u>.

MAJOR COMPONENTS AND CONTROL SYSTEM

System	Input	Output
		All door locking actuator
Remote keyless entry system	Keyfob	 Back door opener actuator
		 Turn signal lamp (LH, RH)
Power door lock system	Front power door lock/unlock switch (LH, RH)	All door locking actuator
Power supply (IGN) to power window	Ignition power supply	Power supply to power window system
Power supply (BAT) to power window	Battery power supply	Power supply to power window system
Panic alarm	Key switch	IPDM E/R
	Keyfob	

System	Input	Output		
Battery saver control	Ignition switchCombination switch	IPDM E/R		
Headlamp	Combination switch	IPDM E/R		
Tail lamp	Combination switch	IPDM E/R		
Fog lamp	Combination switch	IPDM E/R		
Turn signal lamp	Combination switch	• Turn signal lamp		
rum signai iamp	Combination Switch	Combination meter		
Llogard Jama	Hazard switch	Turn signal lamp		
Hazard lamp	Hazard switch	Combination meter		
	Key switch			
	Keyfob	Interior room lamp		
Room lamp timer	 Main power window and door lock/unlock switch 			
	 Front door switch LH 			
	 All door switch 			
Kau warning akima	Key switch	Combination mater (warring human)		
Key warning chime	 Front door switch LH 	Combination meter (warning buzzer)		
	Combination switch			
Light warning chime	Key switch	Combination meter (warning buzzer)		
	 Front door switch LH 			
Rear window defogger	Rear window defogger switch	IPDM E/R		
Air conditioner switch signal	Front air control	ECM		
Blower fan switch signal	Front air control	ECM		

CAN Communication System Description

Refer to LAN-21, "CAN COMMUNICATION" .

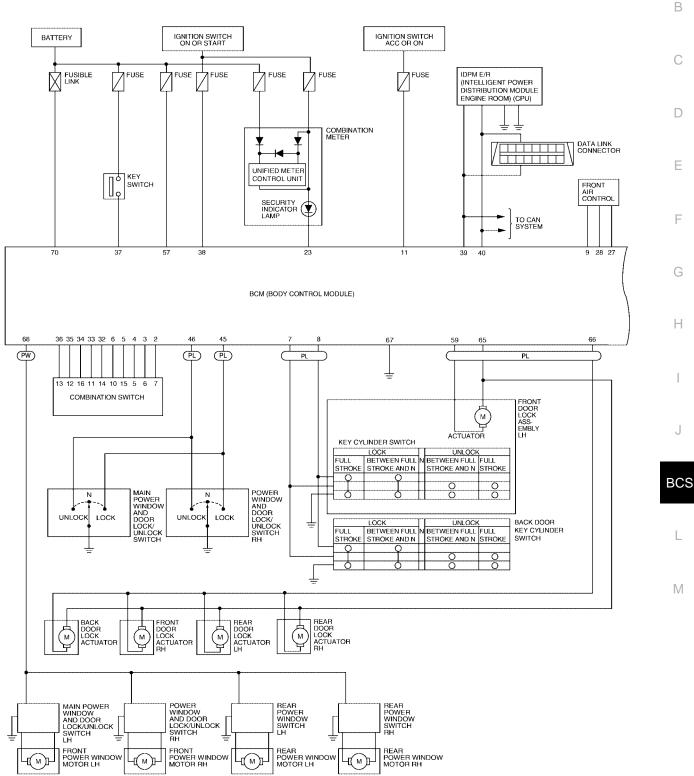
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Schematic

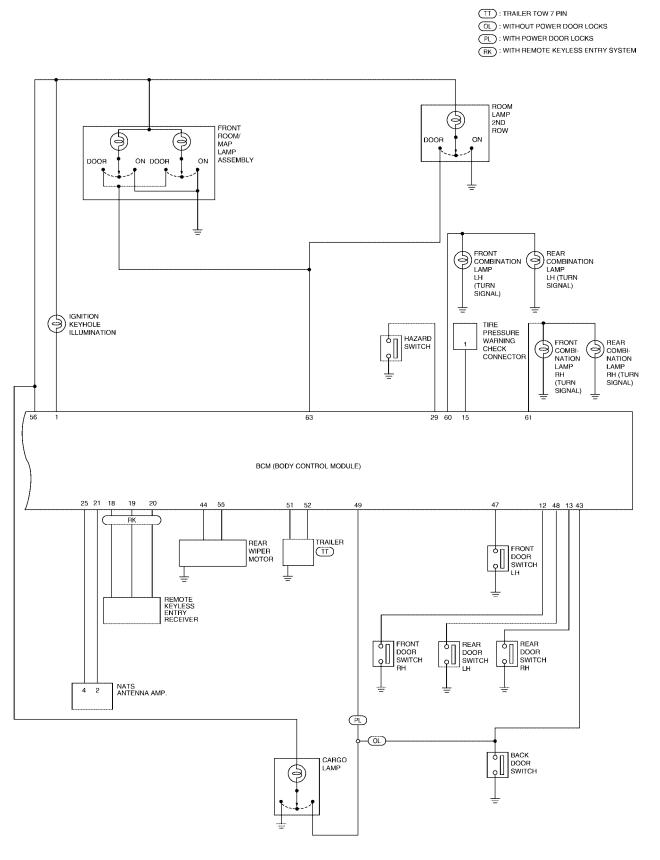


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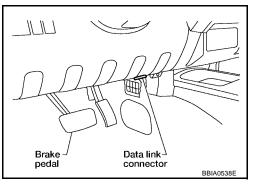
CONSULT-II F	Function (BCM)	EKS00DFU	
CONSULT-II can o	display each diagnostic	item using the diagnostic test modes shown following.	
BCM diagnostic test item	Diagnostic mode	Content	
	WORK SUPPORT	Changes setting of each function.	
-	DATA MONITOR	Displays BCM input/output data in real time.	
-	ACTIVE TEST	Operation of electrical loads can be checked by sending drive signal to them.	
Inspection by part	SELF-DIAG RESULTS	Displays BCM self-diagnosis results.	
	CAN DIAG SUPPORT MNTR	The results of transmit/receive diagnosis of CAN communication can be read.	
-	ECU PART NUMBER	BCM part number can be read.	
-	CONFIGURATION	Performs BCM configuration read/write functions.	

CONSULT-II INSPECTION PROCEDURE

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 carries out CAN communication.

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

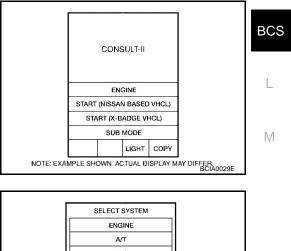


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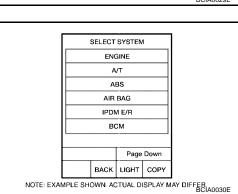
Н

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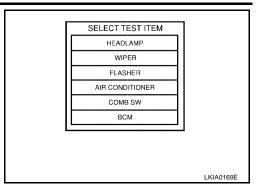
2. Touch "START (NISSAN BASED VHCL)".



3. Touch "BCM" on "SELECT SYSTEM" screen.



4. Select item to be diagnosed on "SELECT TEST ITEM" screen.



ITEMS OF EACH PART

NOTE: CONSULT-II will only display systems the vehicle possesses.

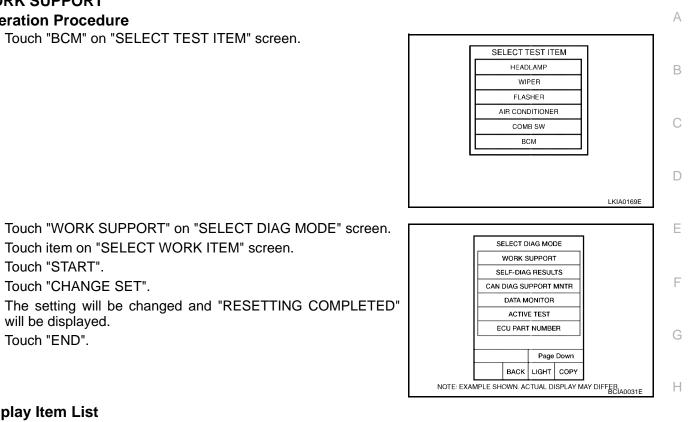
			Dia	ignostic test m	ode (Inspecti	ion by part)		
System and item	CONSULT-II dis- play	WORK SUPPORT	SELF- DIAG RESULTS	CAN DIAG SUPPORT MNTR	DATA MONITOR	ECU PART NUMBER	ACTIVE TEST	CON- FIGU- RATION
BCM	BCM	×	×	×		×		×
Power door lock sys- tem	DOOR LOCK	×			×		×	
Rear defogger	REAR DEFOG- GER				×		×	
Warning chime	BUZZER				×		×	
Room lamp timer	INT LAMP	×			×		×	
Remote keyless entry system	MULTI REMOTE ENT	×			×		×	
Headlamp	HEAD LAMP	×			×		×	
Wiper	WIPER				×		×	
Turn signal lamp Hazard lamp	FLASHER				×		×	
Blower fan switch sig- nal Air conditioner switch signal	AIR CONDI- TIONER				×			
Combination switch	COMB SW				×			
NVIS (NATS)	IMMU				×		×	
Interior lamp battery saver	BATTERY SAVER	×			×		×	
Back door	TRUNK				×		×	
Theft alarm	THEFT ALARM	×			×		×	
Retained power control	RETAINED PWR	×			×		×	
Oil pressure switch	SIGNAL BUFFER				×		×	
Air pressure monitor	AIR PRESSURE MONITOR				×		×	
Panic alarm	PANIC ALARM	×			×		×	

WORK SUPPORT **Operation Procedure**

1. Touch "BCM" on "SELECT TEST ITEM" screen.

Touch item on "SELECT WORK ITEM" screen.

Touch "WORK SUPPORT" on "SELECT DIAG MODE" screen.



Display Item List

7. Touch "END".

4. Touch "START".

Touch "CHANGE SET".

will be displayed.

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

CAN Communication Inspection Using CONSULT-II (Self-Diagnosis) 1. SELF-DIAGNOSTIC RESULT CHECK

NOTE:

2.

3.

5.

6.

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. Connect CONSULT-II and CONSULT-II CONVERTER, and select "BCM" on "SELECT SYSTEM" screen.
- 2. Select "BCM " on "SELECT TEST ITEM" screen, and select "SELF-DIAG RESULTS".
- Check display content in self-diagnostic results. 3.

CONSULT-II display code	Diagnosis item
	INITIAL DIAG
	TRANSMIT DIAG
U1000	ECM
	IPDM E/R
	METER/M&A
	I-KEY

Contents displayed

No malfunction>>Inspection End

Malfunction in CAN communication system>>After printing the monitor items, go to "CAN System". Refer to LAN-21, "CAN COMMUNICATION" .

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Configuration DESCRIPTION

CONFIGURATION has two functions as follows:

- READ CONFIGURATION is the function to confirm vehicle configuration of current BCM.
- WRITE CONFIGURATION is the function to write vehicle configuration on BCM.

CAUTION:

- When replacing BCM, you must perform WRITE CONFIGURATION with CONSULT-II.
- 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.

READ CONFIGURATION PROCEDURE

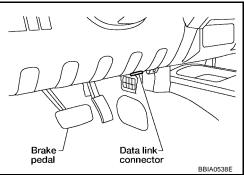
Touch "START (NISSAN BASED VHCL)".

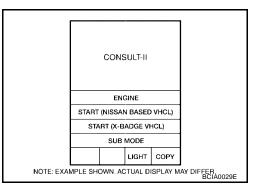
CAUTION:

2.

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

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





- SELECT SYSTEM

 ENGINE

 A/T

 ABS

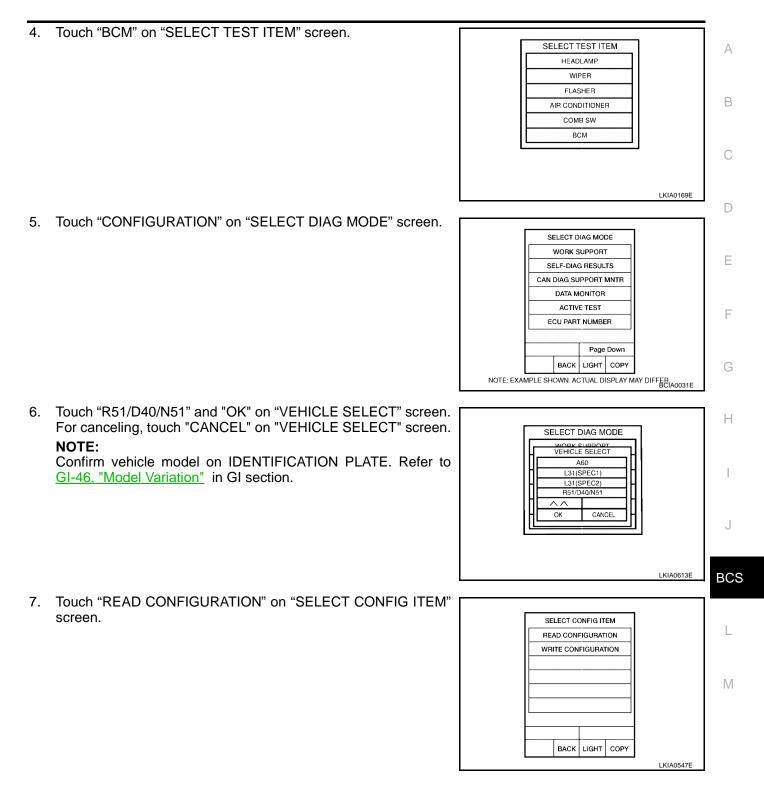
 AIR BAG

 IPDM E/R

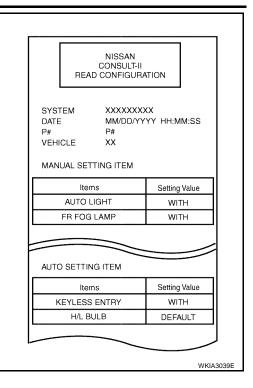
 BCM

 BACK LIGHT COPY

 NOTE: EXAMPLE SHOWN ACTUAL DISPLAY MAY DIFFEB
 BCIA0030E
- Touch "BCM" on "SELECT SYSTEM" screen. If "BCM" is not indicated, go to GI section. Refer to <u>GI-38, "CONSULT-II Data</u> <u>Link Connector (DLC) Circuit"</u>.



 Configuration of current BCM is printed out automatically. A listing of manual setting items and auto setting items will be displayed. Auto setting items are preset and cannot be changed. Manual setting items can be set by using WRITE CONFIGURA-TION PROCEDURE. Refer to <u>BCS-16, "WRITE CONFIGURA-TION PROCEDURE"</u>.



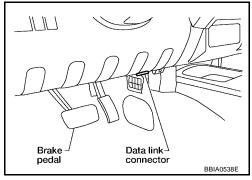
- 9. Touch "BACK" on "READ CONFIGURATION" screen.

WRITE CONFIGURATION PROCEDURE

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 carries out CAN communication.

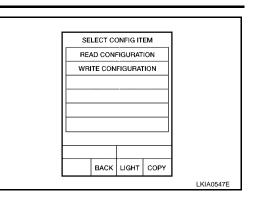
1. With ignition switch OFF, connect CONSULT-II and CONSULT-II CONVERTER to data link connector and turn ignition switch ON.



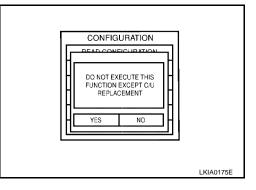
2. Touch "START (NISSAN BASED VHCL)". А CONSULT-II В ENGINE START (NISSAN BASED VHCL) START (X-BADGE VHCL) SUB MODE LIGHT COPY NOTE: EXAMPLE SHOWN. ACTUAL DISPLAY MAY DIFFER. BCIA0029E D 3. Touch "BCM" on "SELECT ITEM" screen. If "BCM" is not indicated, go to GI section to check CONSULT II data link connector SELECT SYSTEM (DLC) circuit. Refer to GI-38, "CONSULT-II Data Link Connector ENGINE Ε A/T (DLC) Circuit" . ABS AIR BAG IPDM E/R F BCM Page Down LIGHT COPY BACK NOTE: EXAMPLE SHOWN ACTUAL DISPLAY MAY DIFFER 4. Touch "BCM" on "SELECT TEST ITEM" screen. Н SELECT TEST ITEM HEADLAMP WIPER FLASHER AIR CONDITIONER COMB SW всм J LKIA0169E BCS Touch "CONFIGURATION" on "SELECT DIAG MODE" screen. 5. SELECT DIAG MODE WORK SUPPORT L SELF-DIAG RESULTS CAN DIAG SUPPORT MNTR DATA MONITOR Μ ACTIVE TEST ECU PART NUMBER Page Down BACK LIGHT COPY NOTE: EXAMPLE SHOWN. ACTUAL DISPLAY MAY DIFFER 6. Touch "R51/D40/N51" and "OK" on "VEHICLE SELECT" screen. For canceling, touch "CANCEL" on "VEHICLE SELECT" screen. SELECT DIAG MODE NOTE: VEHICLE SELECT Confirm vehicle model on IDENTIFICATION PLATE. Refer to A60 L31(SPEC1) GI-46, "Model Variation" . L31(SPEC2 R51/D40/N51 $\wedge \wedge$ ОК CANCE

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7. Touch "WRITE CONFIGURATION" on "SELECT CONFIG ITEM" screen.



8. Touch "YES". For canceling, touch "NO".



9. 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-II 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 appear on the CONSULT-II "WRITE CONFIGURATION" screen(s), then it is an auto setting item and it cannot be manually set or changed.

NOTE:

Confirm vehicle model on IDENTIFICATION PLATE. Refer to GI-46, "Model Variation" .

ITEM	SET VAL
DTRL	WITH \Leftrightarrow WITHOUT

10. Touch "CHNG SETTING" on "WRITE CONFIGURATION" screen.

CAUTION:

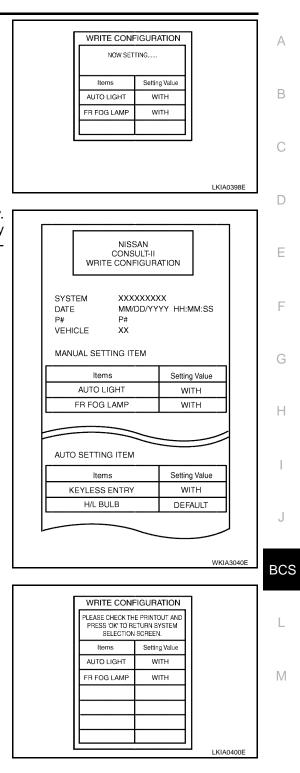
Make sure to touch "CHNG SETTING" even if the indicated configuration of brand-new BCM is same as the desirable configuration.

If not, configuration which is set automatically by selecting vehicle model cannot be memorized.

11. Touch "OK" on "WRITE CONFIGURATION" screen. If "CANCEL" is touched, it will return to previous screen.

ARE YOU SURE TO SETTING? PRESS 'O VALUE IS CH	K'THEN SETTING
Items	Setting Value
AUTO LIGHT	WITH
FR FOG LAMP	WITH

12. Wait until the next screen during setting.



 WRITE CONFIGURATION results are printed out automatically. Confirm "WRITE CONFIGURATION" is correctly executed by comparing sheet automatically printed out with applicable configuration list shown in step 9.

14. Touch "OK" on "WRITE CONFIGURATION" screen. WRITE CONFIGURATION is completed.

Removal and Installation of BCM REMOVAL

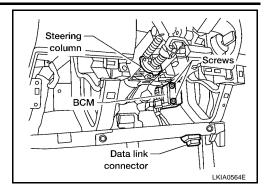
NOTE:

If possible, before removing BCM, retrieve current BCM configuration to use for reference when configuring brand-new BCM after installation. Refer to <u>BCS-14, "Configuration"</u>.

- 1. Disconnect negative battery cable.
- 2. Remove lower knee protector. Refer to IP-12, "LOWER INSTRUMENT PANEL LH" .

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- 3. Remove screws and release BCM.
- 4. Disconnect connectors and then remove BCM.



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

- When replacing BCM, it must be configured. Refer to <u>BCS-14, "Configuration"</u>.
- When replacing BCM, perform initialization of NATS system and registration of all NATS ignition key IDs. Refer to <u>BL-105, "NVIS(NISSAN Vehicle Immobilizer System-NATS)"</u>.
- When replacing BCM, perform ID registration procedure of low tire pressure warning system. Refer to <u>WT-12, "ID Registration Procedure"</u>.