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PRECAUTIONS

PRECAUTIONS PFP:00001

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 Man-

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)

PFP:284B2

System Description

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BCM (body control module) controls the operation of various electrical units installed on the vehicle.

BCM FUNCTION

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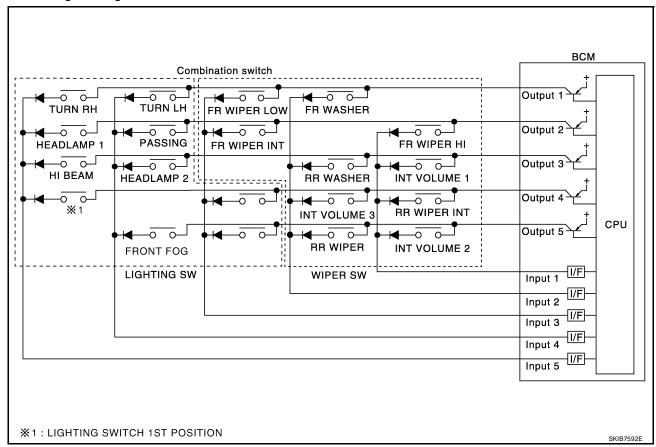
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BCM has a combination switch reading function for reading the operation of combination switches (light, wiper, washer, turn signal) in addition to the function for controlling the operation of various electrical components. Also, it functions as an interface that receives signals from the front air control, 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.



- 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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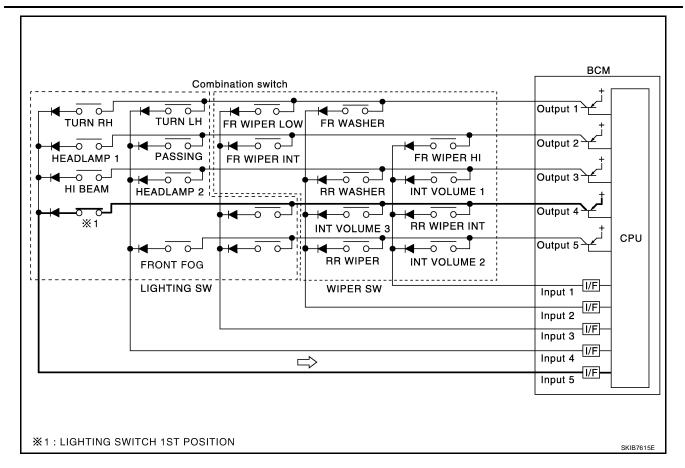
		B SW PUT 1		B SW PUT 2	COME		•	B SW PUT 4		B SW PUT 5
	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
COMB SW INPUT 1	-	1	FRONT WIPER HI ON	FRONT WIPER HI OFF	INT VOLUME 1 ON	INT VOLUME 1 OFF	RR WIPER INT ON	RR WIPER INT OFF	INT VOLUME 2 ON	INT VOLUME 2 OFF
COMB SW INPUT 2	FRONT WASHER ON	FRONT WASHER OFF	_	_	RR WASHER ON	RR WASHER OFF	INT VOLUME 3 ON	INT VOLUME 3 OFF	RR WIPER ON	RR WIPER OFF
COMB SW INPUT 3	FRONT WIPER LO ON	FRONT WIPER LO OFF	FRONT WIPER INT ON	FRONT 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	_	_	FRONT FOG ON	FRONT 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	sw	LIGHTING SW (1ST) OFF	_	_

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NOTE:

Headlamp has a dual system switch.

- 4. Example operation: (When lighting switch 1st position is 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.



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 10ms. Sleep status

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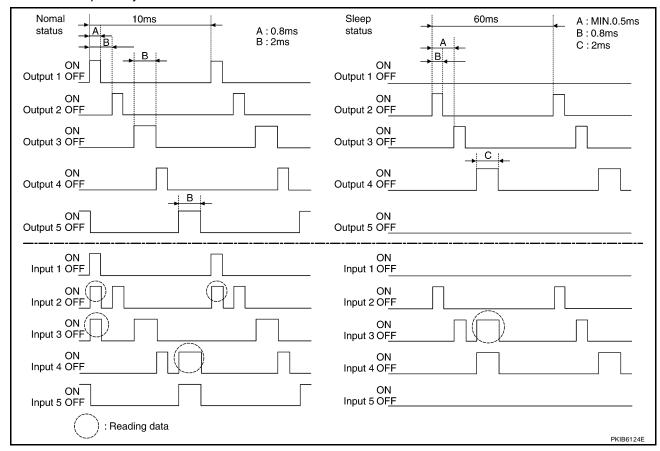
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 When BCM is in sleep mode, transistors of OUTPUT 1 and 5 stop the output, and BCM enters low-current-consumption mode. OUTPUTS (2, 3, and 4) turn ON-OFF at 60ms intervals, and receives lighting switch input only.



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.
- 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.
- 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

 BCM is activated with low current consumption mode. Α CAN communication is not active. 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 Key switch (without Intelligent Key) Key switch and ignition knob switch (with Intelligent Key) Hazard switch Door lock/unlock switch Front door switch (LH, RH) Rear door switch (LH, RH) Back door lock assembly Е Combination switch (passing, lighting switch 1st position, front fog lamp) Keyfob (lock/unlock signal) - Front door key cylinder switch LH When control performed only by BCM is required by switch, it shifts to CAN communication inactive mode. Status of combination switch reading function is changed. SYSTEMS CONTROLLED BY BCM DIRECTLY Power door lock system. Refer to BL-23, "POWER DOOR LOCK SYSTEM". Remote keyless entry system. Refer to BL-54, "REMOTE KEYLESS ENTRY SYSTEM". Н Power window system. Refer to GW-17, "POWER WINDOW SYSTEM". NOTE Room lamp timer. Refer to LT-91, "INTERIOR ROOM LAMP". Rear wiper and washer system. Refer to WW-30, "REAR WIPER AND WASHER SYSTEM". NOTE: Power supply only. No system control. SYSTEMS CONTROLLED BY BCM AND IPDM E/R Panic system. Refer to BL-54, "REMOTE KEYLESS ENTRY SYSTEM". Vehicle security (theft warning) system. Refer to BL-193, "VEHICLE SECURITY (THEFT WARNING) SYSTEM". NVIS(NATS) system. Refer to BL-212, "NATS (Nissan Anti-Theft System)".

- Headlamp, tail lamp and battery saver control systems. Refer to LT-75, "PARKING, LICENSE PLATE AND TAIL LAMPS", LT-5, "HEADLAMP (FOR USA)" or LT-27, "HEADLAMP (FOR CANADA) - DAYTIME <u>LIGHT SYSTEM -"</u>.
- Front fog lamp. Refer to LT-41, "FRONT FOG LAMP".
- Front wiper and washer system. Refer to WW-4, "FRONT WIPER AND WASHER SYSTEM".
- Rear window defogger system. Refer to <u>GW-50</u>, "<u>REAR WINDOW DEFOGGER</u>".

SYSTEMS CONTROLLED BY BCM AND COMBINATION METER

- Warning chime. Refer to DI-47, "WARNING CHIME".
- Turn signal and hazard warning lamps. Refer to LT-51, "TURN SIGNAL AND HAZARD WARNING LAMPS".

SYSTEMS CONTROLLED BY BCM AND INTELLIGENT KEY UNIT

Intelligent Key system. Refer to <u>BL-80, "INTELLIGENT KEY SYSTEM"</u>.

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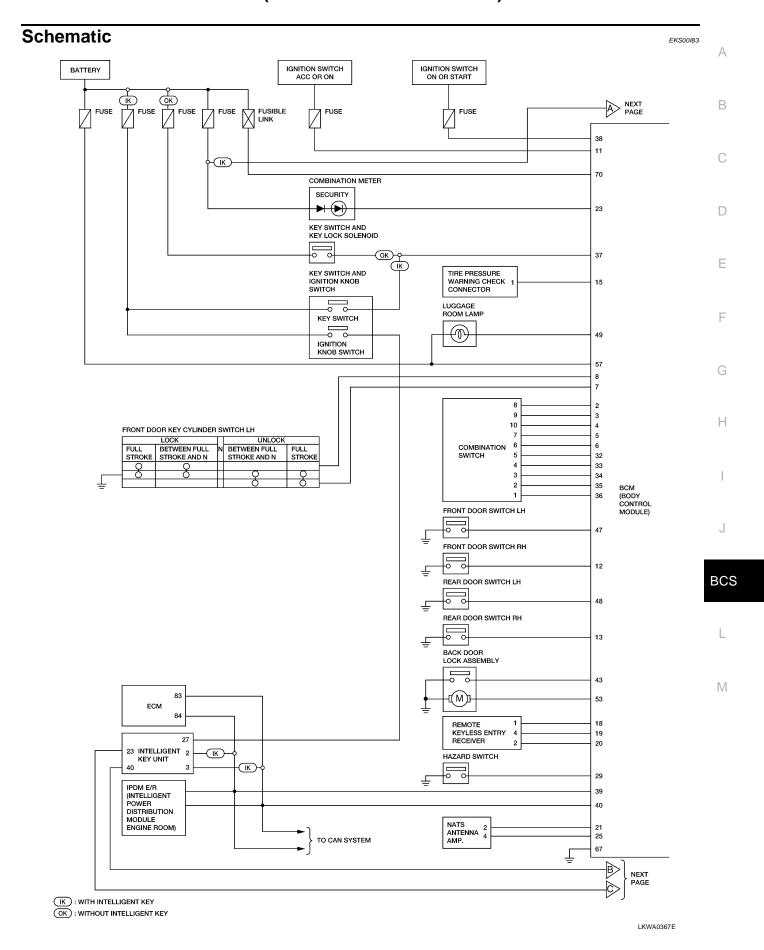
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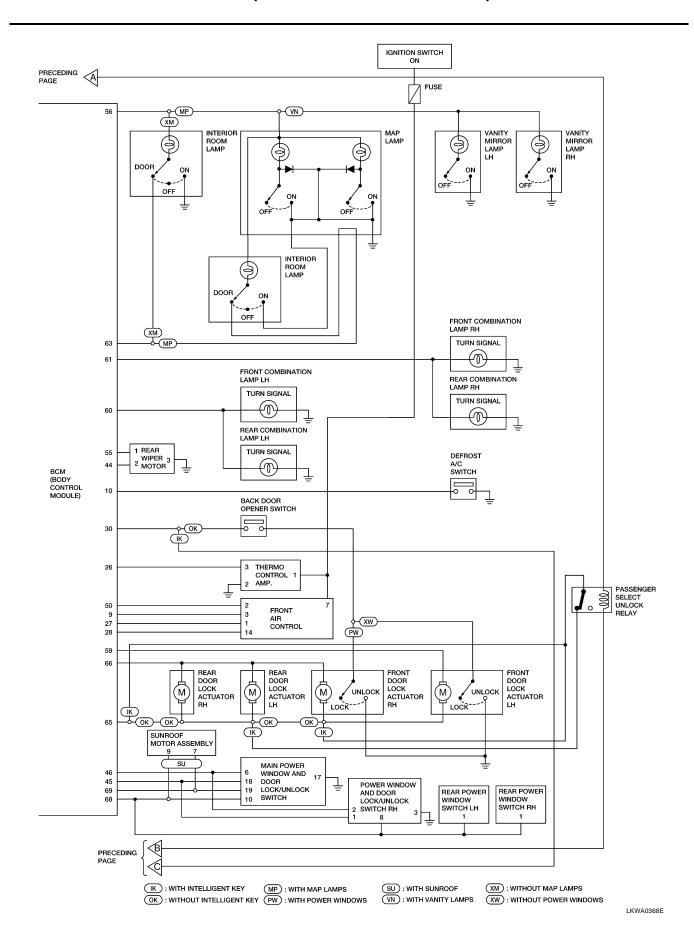
System	Input	Output		
Remote keyless entry system	Remote keyless entry receiver (keyfob)	 All door locking actuators Turn signal lamp (LH, RH) Combination meter (turn signal lamp) 		
Intelligent Key system	Intelligent Key unit	 All door locking actuators Turn signal lamp (LH, RH) Combination meter (turn signal lamp) 		
Power door lock system	Front power door lock/unlock switch (LH, RH)	All door locking actuators		
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 Keyfob	IPDM E/R		
Battery saver control	Ignition switchCombination switch	IPDM E/R		
Headlamp	Combination switch	IPDM E/R		
Tail lamp	Combination switch	IPDM E/R		
Front fog lamp	Combination switch	IPDM E/R		
Turn signal lamp	Combination switch	Turn signal lamp		
Turri signariamp	Combination switch	Combination meter		
Hazard lamp	Hazard switch	Turn signal lamp Combination meter		
Room lamp timer	 Key switch Keyfob Main power window and door lock/unlock switch Front door switch LH All door switch 	Interior room lamp		
Key warning chime	Key switch Front door switch LH	Combination meter (warning buzzer)		
Light warning chime	Combination switchKey switchFront door switch LH	Combination meter (warning buzzer)		
Seat belt warning chime	Seat belt buckle switch LH Ignition switch	Combination meter (warning buzzer)		
Front wiper and washer system	Combination switchIgnition switch	IPDM E/R		
Rear window defogger	Rear window defogger switch	IPDM E/R		
Rear wiper and washer system	Combination switch Ignition switch	Rear wiper motor		
A/C switch signal	Front air control	ECM		
Blower fan switch signal	Front air control	ECM		
A/C indicator signal	Front air control	A/C indicator		
Low tire pressure warning system	Remote keyless entry receiver	Combination meter		

CAN Communication System Description

EKS00182

Refer to LAN-4, "SYSTEM DESCRIPTION" .





BCM Terminal Arrangement

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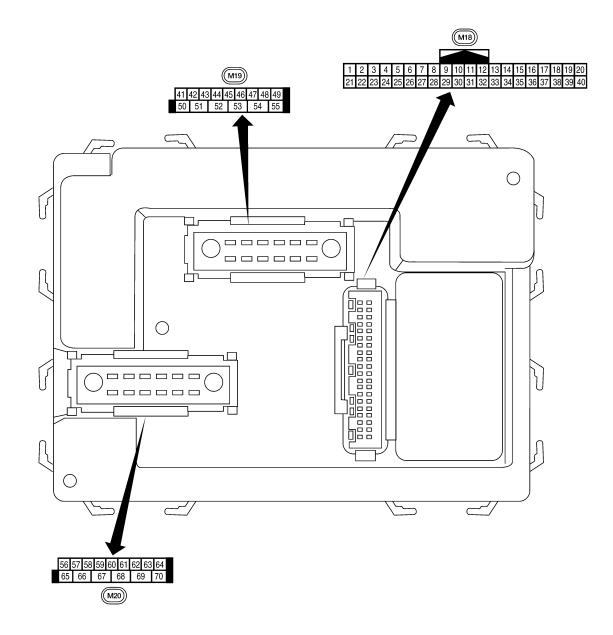
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Terminals and Reference Values for BCM

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	Wire				D (
Terminal	color	Signal name	Signal input/ output	Ignition switch	Operation or condition	Reference value or waveforr (Approx.)
2	2 BR Combination switch input 5 Input		ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 	
3	GR	Combination switch input 4	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 ***5ms
4	L	Combination switch input 3	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0
5	G	Combination switch input 2				(V)
6	V	Combination switch input 1	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	** 5ms SKIA5292
_		Front door key cylin-			ON (open, 2nd turn)	Momentary 1.5V
7	BR	der switch LH (unlock)	Input	OFF	OFF (closed)	0V
8	Υ	Front door key cylin-	Input		On (open)	Momentary 1.5V
	<u>'</u>	der switch LH (lock)	pat		OFF (closed)	0V
9	W	Rear window defog-	loout	ON	Rear window defogger switch ON	0V
9	VV	ger switch	Input	ON	Rear window defogger switch OFF	5V
11	L	Ignition switch (ACC or ON)	Input	ACC or ON	Ignition switch ACC or ON	Battery voltage
12	SB	Front door switch RH	Input	OFF	ON (open)	0V
14		TIOTE GOOF SWITCH INT	mpat		OFF (closed)	Battery voltage
13	GR	Rear door switch RH	Input	OFF	ON (open)	0V
					OFF (closed)	Battery voltage
15	W	Tire pressure warning check connector	Input	OFF	_	5V
18	V	Remote keyless entry receiver (ground)	Output	OFF	_	0V

	Wire		Signal		Measuring condition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
19	BR	Remote keyless entry receiver (power supply)	Output	OFF	Ignition switch OFF	(V) 6 4 2 0 • • • 50 ms
20	G	Remote keyless entry receiver signal (sig-	Input	OFF	Stand-by (keyfob buttons released)	(V) 6 4 2 0 • • • 50 ms LIIA1894E
20	o o	nal)	pac		When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed)	(V) 6 4 2 -1
21	Р	NATS antenna amp.	Input/ Output	OFF → ON	Ignition switch (OFF \rightarrow ON)	Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage.
23	R	Security indicator lamp	Output	OFF	Goes OFF → illuminates (Every 2.4 seconds)	Battery voltage → 0V
25	LG	NATS antenna amp.	Input/ Output	OFF → ON	Ignition switch (OFF \rightarrow ON)	Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage.
26	GR	Thermo control amp.	Input	ON	A/C switch ON	(V) 15 10 5 0 + 4ms ZJIA0719J
27	0	Compressor ON sig-	Input	ON	A/C switch OFF	5V
		nal	put	J.,	A/C switch ON	0V
28	Р	Front blower monitor	Input	ON	Front blower motor OFF	Battery voltage
					Front blower motor ON	0V
29	L	Hazard switch	Input	OFF	ON OFF	0V 5V
0.0*1	.,,	Back door open out-	Out		Back door open (switch closed)	ov
30*1	V	put	Output	_	Back door closed (switch open)	5V
30 ^{*2}	V	Back door opener	Input		All doors locked (SW OFF)	Battery voltage
	-	switch	lw.		All doors unlocked (SW ON)	0V

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	107		Signal		Measuring condition	B. ()
Terminal	Wire color	Signal name	input/ output	Ignition switch	Operation or condition	Reference value or waveform (Approx.)
32	LG	Combination switch output 5	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 ***-5ms
33	Y	Combination switch output 4	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 *5ms
34	V	Combination switch output 3	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 **5ms SKIA5291E
35	R	Combination switch output 2				(V)
36	Р	Combination switch output 1	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	5ms SKIA5292E
37	G	Key switch	Input	OFF	Key inserted Key removed	Battery voltage 0V
38	W	Ignition switch (ON)	Input	ON	-	Battery voltage
39	L	CAN-H	_	_	_	_
40		CAN-L	_	_	_	_
					ON (open)	0V
43	R	Back door switch	Input	OFF	OFF (closed)	Battery voltage
			_		Rear wiper operating	0
44	LG	Rear wiper auto stop	Input	ON	Rear wiper stopped	Battery
			_		ON (lock)	0V
45	GR	Lock switch	Input	OFF	OFF	Battery voltage
				055	ON (unlock)	0V
46	L	Unlock switch	Input	OFF	OFF	Battery voltage
47		Front door	lm = · · · t	055	ON (open)	0V
47	BR	Front door switch LH	Input	OFF	OFF (closed)	Battery voltage
40		Dan dan witeb III	la accet	OFF	ON (open)	0V
48	0	Rear door switch LH	Input	OFF	OFF (closed)	Battery voltage
40	Р	Luggogo room lama	Outro	OFF	Any door open (ON)	0V
49	٢	Luggage room lamp	Output	OFF	All doors closed (OFF)	Battery voltage

	14/:==		Signal		Measuring cond	dition	Deference value or way of arm		
Terminal	Wire color	Signal name	input/ output	Ignition switch	Operation	or condition	Reference value or waveform (Approx.)		
5 0	CD	A/C indicator	Output	ON	A/C OFF		0		
50	SB	A/C indicator	Output	ON	A/C ON		Battery voltage		
53	R	Back door lock assembly (actuator)	Output	OFF	Back door (ope	en)	Battery voltage		
55	V	Rear wiper motor out-	Output	ON	OFF		0		
55	V	put	Output		ON		Battery voltage		
56	R	Battery saver output	Output	OFF	30 minutes after switch is turne		0V		
				ON	-	_	Battery voltage		
57	LG	Battery power supply	Input	OFF	-	_	Battery voltage		
59	G	Front door lock actua-	Output	OFF	OFF (neutral)		OV		
33		tor LH (unlock)	Output	011	ON (unlock)		Battery voltage		
60	V	Turn signal (left)	Output	ON	Turn left ON		(V) 15 10 5 0 500 ms		
61	W	Turn signal (right)	Output	ON	Turn right ON		(V) 15 10 5 0 500 ms		
63	BR	Interior room lamp	Output	OFF	Any door	ON (open)	0V		
03	ВK	Interior room lamp	Output	OFF	switch	OFF (closed)	Battery voltage		
65	SB	All door lock actuators	Output	OFF	OFF (neutral)		0V		
03	OD	(lock)	Output	011	ON (lock)		Battery voltage		
		Front door lock actua-			OFF (neutral)		OV		
66	G	tor RH, rear door lock actuators LH/RH (unlock)	Output	OFF	ON (unlock)		Battery voltage		
67	В	Ground	Input	ON	-	_	0V		
					Ignition switch	ON	Battery voltage		
					Within 45 seco		Battery voltage		
68	L	Power window power supply (RAP)	Output	_	More than 45 seconds after ignition switch OFF When front door LH or RH is open or power window timer operates		More than 45 sec		OV
							0V		
69	Р	Battery power supply	Output	OFF	-	_	Battery voltage		
70	Υ	Battery power supply	Input	OFF	-	_	Battery voltage		

^{*1:} With Intelligent Key.

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Revision: June 2006 BCS-15 2007 Versa

^{*2:} Without Intelligent Key.

BCM Power Supply and Ground Circuit Check

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1. CHECK FUSES AND FUSIBLE LINK

- Check 40A fusible link (letter g, located in the fuse and fusible link box).
- Check 10A fuses [No. 6, 8 and 20, located in the fuse block (J/B)].

OK or NG

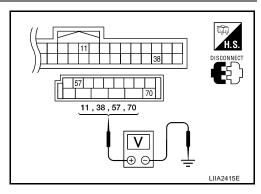
OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to <u>PG-4, "POWER SUPPLY ROUTING CIRCUIT"</u>.

2. CHECK BCM POWER SUPPLY CIRCUIT

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

Connector	Term	inals	Power	Condition	Voltage (V)
Connector	(+)	(-)	source	Condition	(Approx.)
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
	70	Ground	Battery power supply	Ignition switch OFF	Battery voltage



OK or NG

OK >> GO TO 3.

NG >> Repair or replace the harness.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 terminal 67 and ground.

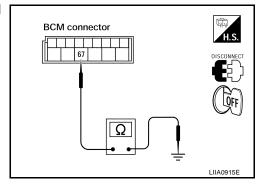
67 - Ground

: Continuity should exist.

OK or NG

OK >> Power supply and ground circuit is OK.

NG >> Repair or replace harness.



CONSULT-II Function (BCM)

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

BCM diagnostic test item	Diagnostic mode	Content					
	WORK SUPPORT	Supports inspections and adjustments. Commands are transmitted to the BCM for setting the status suitable for required operation, input/output signals are received from the BCM and received data is displayed.					
	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 START PROCEDURE

Refer to GI-38, "CONSULT-II Start Procedure" .

ITEMS OF EACH PART

NOTE:

CONSULT-II will only display systems the vehicle possesses.

		Diagnostic test mode (Inspection 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	ВСМ	×	×	×		×		×			
Power door lock system	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				×						
Intelligent Key	INTELLIGENT KEY				×						
Combination switch	COMB SW				×						
NVIS (NATS)	IMMU				×		×				
Interior lamp battery saver	BATTERY SAVER	×			×		×				
Back door	TRUNK				×		×				
Theft alarm	THEFT ALARM	×			×		×				
Retained accessory power control	RETAINED PWR	×			×		×				

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		Diagnostic test mode (Inspection 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		
Oil pressure switch	SIGNAL BUFFER				×		×			
Low tire pressure mon- itor	AIR PRESSURE MONITOR	×	×		×		×			
Panic alarm	PANIC ALARM						×			

WORK SUPPORT Display Item List

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)

EKS00188

1. SELF-DIAGNOSTIC RESULT CHECK

NOTE:

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. 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".
- 3. Check display content in self-diagnostic results.

CONSULT-II display code	Diagnosis item
	INITIAL DIAG
	TRANSMIT DIAG
114000	ECM
U1000	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-7, "TROUBLE DIAGNOSIS".

Configuration DESCRIPTION

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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:

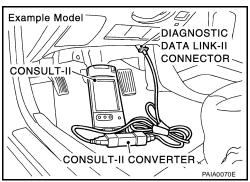
- When replacing BCM, you must perform WRITE CONFIGURATION with CONSULT-II.
- Complete the procedure of WRITE CONFIGURATION in order.
- If you set incorrect WRITE CONFIGURATION, incidents will occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.

READ CONFIGURATION PROCEDURE

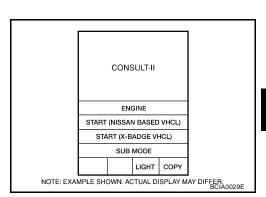
CAUTION:

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.

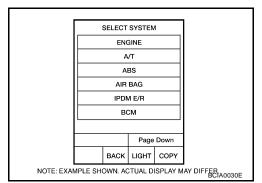
1. With ignition switch OFF, connect CONSULT-II and CONSULT-II CONVERTER to data link connector and turn ignition switch ON.



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



Touch "BCM" on "SELECT SYSTEM" screen. If "BCM" is not indicated, go to GI section. Refer to GI-40, "CONSULT-II Data Link Connector (DLC) Circuit".

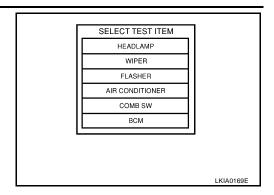


BCS

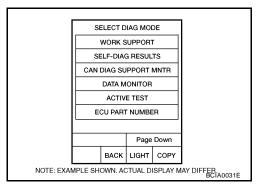
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4. Touch "BCM" on "SELECT TEST ITEM" screen.

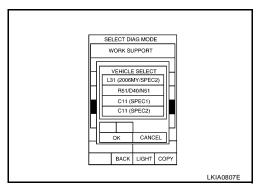


5. Touch "CONFIGURATION" on "SELECT DIAG MODE" screen.

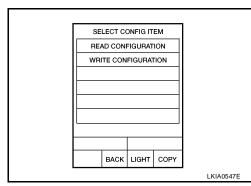


 Touch "C11 (SPEC1)" and "OK" on "VEHICLE SELECT" screen. For canceling, touch "CANCEL" on "VEHICLE SELECT" screen.
 NOTE:

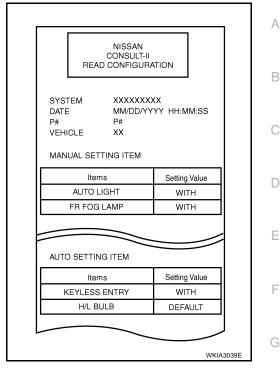
Confirm vehicle model on IDENTIFICATION PLATE. Refer to GI-47, "Model Variation".



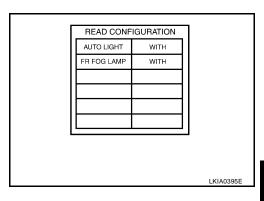
7. Touch "READ CONFIGURATION" on "SELECT CONFIG ITEM" screen.



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 CONFIGURATION PROCEDURE. Refer to BCS-21, "WRITE CONFIGURATION PROCEDURE".



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

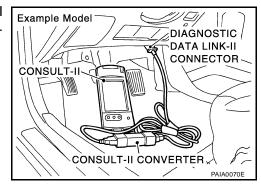


WRITE CONFIGURATION PROCEDURE

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.

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



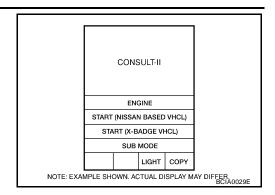
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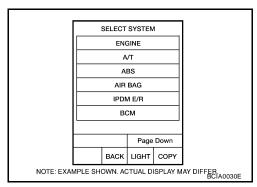
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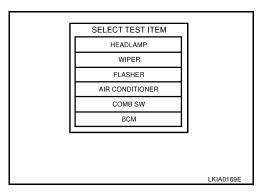
2. Touch "START (NISSAN BASED VHCL)".



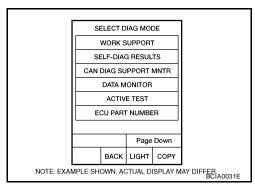
3. Touch "BCM" on "SELECT ITEM" screen. If "BCM" is not indicated, go to GI section to check CONSULT II data link connector (DLC) circuit. Refer to GI-40, "CONSULT-II Data Link Connector (DLC) Circuit".



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

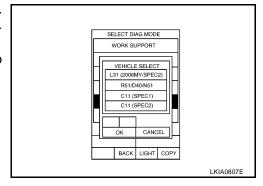


5. Touch "CONFIGURATION" on "SELECT DIAG MODE" screen.

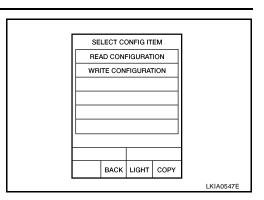


 Touch "C11 (SPEC1)" and "OK" on "VEHICLE SELECT" screen. For canceling, touch "CANCEL" on "VEHICLE SELECT" screen.
 NOTE:

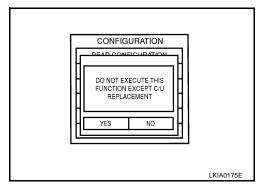
Confirm vehicle model on IDENTIFICATION PLATE. Refer to GI-47, "Model Variation".



7. Touch "WRITE CONFIGURATION" on "SELECT CONFIGITEM" 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-47, "Model Variation".

ITEM	SET VAL
KEYLESS ENTRY	WITH ⇔ WITHOUT
I-KEY	WITH ⇔ WITHOUT
DTRL	WITH ⇔ WITHOUT
THEFT ALARM	WITH ⇔ WITHOUT

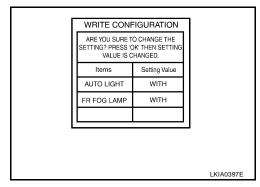
10. Touch "CHNG SETTING" on "WRITE CONFIGURATION" screen.

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.



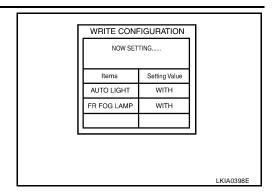
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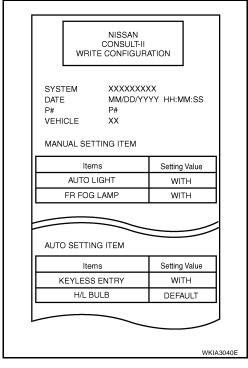
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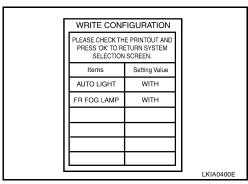
12. Wait until the next screen during setting.



13. 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

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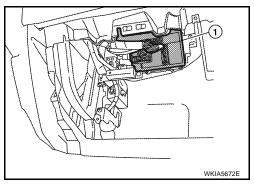
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1. Remove the glove box. Refer to IP-21, "GLOVE BOX ASSEMBLY".

2. Remove the BCM screws, disconnect the connectors and remove the BCM.



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

When replacing BCM, it must be configured. Refer to <u>BCS-19</u>, "Configuration".

 When replacing BCM, perform initialization of NATS system and registration of all NATS ignition key IDs. Refer to <u>BL-212</u>, "NATS (Nissan Anti-Theft System)"

 When replacing BCM, if new BCM does not come with keyfobs attached, all existing keyfobs must be reregistered.

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