SECTION BCS BODY CONTROL SYSTEM

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BCS

PRECAUTIONS

PRECAUTIONS PFP:00001

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

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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

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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)

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System Description

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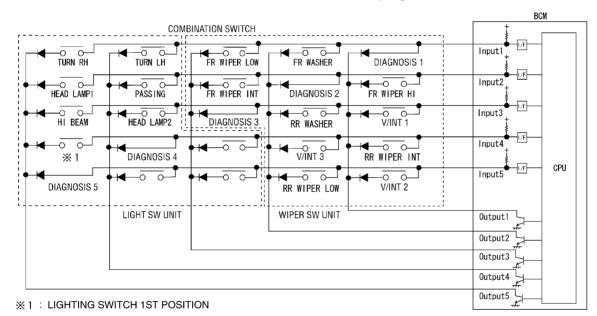
BCM (Body Control Module) controls the operation of various electrical units installed on the vehicle.

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 auto amplifier, and sends signals to ECM using CAN communication.

COMBINATION SWITCH READING FUNCTION

- 1. Description
 - BCM reads combination switch (light, wiper washer, turn signal) status, and controls various electrical components according to the results.
 - BCM reads information of 20 switches and 5 diagnostic results by combining five output terminals (OUTPUT 1 - 5) and five input terminals (INPUT 1 - 5).
- Operation description
 - BCM outputs battery voltage from input terminals (INPUT 1 5) all the time. At the same time output terminals (OUTPUT 1 5) activate transistors in turn, and allow current to flow. At this time, if any (1 or more) of the switches are ON, the input terminals corresponding to these switches detect current flow, and the interface of BCM detects the condition. Then BCM judges switches are ON.



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BCS

- BCM Operation table of combination switches
 - BCM reads operation status of combination switches by the combination shown in the table.

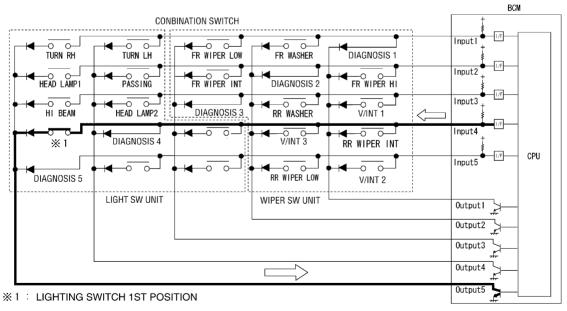
		MB SW UT 1	COMB SW INPUT 2		COMB SW INPUT 3		COMB SW INPUT 4		COMB SW INPUT 5	
	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
COMB SW OUTPUT 1	DIAGNOSIS 1 OK	DIAGNOSIS 1 NG	FR Wiper Hi on	FR WIPER HI OFF	V/INT 1 ON	V/INT 1 OFF	RR WIPER INT ON	RR WIPER INT OFF	V/INT 2 On	V/INT 2 OFF
COMB SW OUTPUT 2	FR WASHER ON	FR WASHER OFF	DIAGNOSIS 2 OK	DIAGNOSIS 2 NG	RR Washer On	RR WASHER OFF	V/INT 3 ON	V/INT 3 OFF	RR WIPER ON	RR WIPER OFF
COMB SW OUTPUT 3	FR WIPER LOW ON	FR WIPER LOW OFF	FR WIPER INT ON	FR WIPER INT OFF	DIAGNOSIS 3 OK	DIAGNOSIS 3 NG	_	_	_	_
COMB SW OUTPUT 4	TURN LH ON	TURN LH OFF	PASSING ON	PASSING OFF	HEAD LAMP 2 ON	HEAD LAMP 2 OFF	DIAGNOSIS 4 OK	DIAGNOSIS 4 NG	_	_
COMB SW OUTPUT 5	TURN RH ON	TURN RH OFF	HEAD LAMP ON	HEAD LAMP OFF	HI BEAM ON	HI BEAM OFF	LIGHTING SWITCH 1ST POSITION ON	LIGHTING SWITCH 1ST POSITION OFF	DIAGNOSIS 5 OK	DIAGNOS 5 NG

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NOTE:

Dual switches are set for head lamps.

- 4. Example (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 5 transistor is activated, BCM detects current flow in INPUT 4.
 - When OUTPUT 5 transistor is ON, BCM detects current flow in INPUT 4, and judges lighting switch 1st position is ON. Then BCM sends tail lamp ON signal to IPDM E/R using CAN communication.
 - When OUTPUT 5 transistor is activated again, BCM detects current flow in INPUT 4, and confirms lighting switch 1st position is continuously ON.



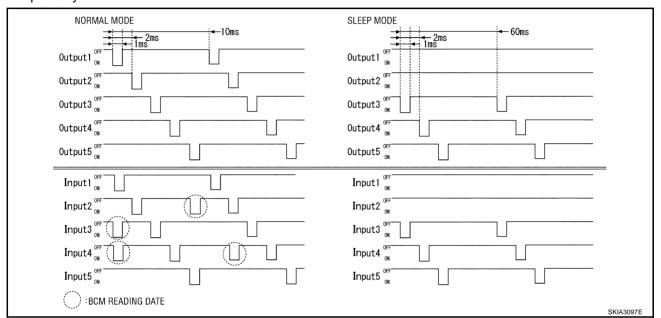
NOTE:

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

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- Combination switch reading function has operation modes shown below.
- Normal mode
 - When BCM is not in sleep mode, each OUTPUT (1 5) terminal turns ON-OFF at 10 ms intervals.
- Sleep mode
 - When BCM is in sleep mode, transistors of OUTPUT 1 and 2 stop the output, and BCM enters low-current-consumption mode. OUTPUTS (3 - 5) turn ON-OFF at 60 ms intervals, and receive lighting switch input only.



CAN COMMUNICATION CONTROL

CAN communication is capable of dealing with a lot of information through the two communication lines (CAN L-line, CAN H-line) connecting control units in the system. Also each control unit functions to transmit and receive data, and reads necessary information only.

BCM STATUS CONTROL

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

- 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 status
 - This is the status to stop 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 with another control unit stops, it switches to CAN communication 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.
 - Two seconds after CAN communication with another control unit stops, it switches to CAN communication inactive status.
- Sleep status

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- BCM is activated with low-current-consumption mode.
- CAN communication is not active.
- When CAN communication operation is detected, it switches to CAN communication status.
- When control performed only by BCM is required by switch, it shifts to CAN communication inactive mode.
- It changes combination switch reading function.

SYSTEMS CONTROLLED BY BCM DIRECTLY

- Power door lock system. Refer to <u>BL-18</u>, "<u>POWER DOOR LOCK SYSTEM</u>".
- Remote keyless entry system. Refer to.BL-48, "REMOTE KEYLESS ENTRY SYSTEM".
- Power window system. Refer to <u>GW-17</u>, "<u>POWER WINDOW SYSTEM</u>". NOTE
- Room lamp timer. Refer to <u>LT-209</u>, "INTERIOR ROOM LAMP".
- Warning chime. Refer to <u>DI-84, "WARNING CHIME"</u>.
- Turn signal and hazard warning lamps. Refer to <u>LT-135, "TURN SIGNAL AND HAZARD WARNING</u> LAMPS".

NOTE:

Power supply only. No system control.

SYSTEMS CONTROLLED BY BCM AND IPDM E/R

- Panic alarm. Refer to BL-48, "REMOTE KEYLESS ENTRY SYSTEM".
- Theft warning system. Refer <u>BL-91</u>, "VEHICLE SECURITY (THEFT WARNING) SYSTEM".
- IVIS (NATS). Refer to <u>BL-121, "NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)"</u>.
- Headlamp, tail lamp, auto light system. Battery saver control.
- Wiper. Refer to WW-4, "FRONT WIPER AND WASHER SYSTEM".
- Front washer. Refer to <u>WW-4</u>, "<u>FRONT WIPER AND WASHER SYSTEM</u>".
- Rear window defogger. Refer to <u>GW-57</u>, "<u>REAR WINDOW DEFOGGER</u>".

System	Input	Output		
		All-door locking actuator		
Remote keyless entry system	key fob	Back door opener actuator		
		• Turn signal lamp (LH, RH)		
	Power window main switch (door lock			
Power door lock system	and unlock switch)	All-door locking actuator		
	Power window sub switch (passenger ide) (dear leak and unleak switch)	3		
Power supply (IGN) to power window	side) (door lock and unlock switch)	Power supply to power window system		
	Ignition power supply	Power supply to power window system		
Power supply (BAT) to power window system and power seat	Battery power supply	Power supply to power window system and power seat		
Panic alarm	Key switch	IPDM E/R		
and dam	Remote controller	II DIVI E/IX		
Theft warning system	All-door locking actuator	IPDM E/R		
Their warning system	Back door opener actuator	II DIVI L/IX		
Potton, cover control	Ignition switch	IPDM E/R		
Battery saver control	Combination switch	DIVI LAX		
Headlamp	Combination switch	IPDM E/R		
Tail lamp	Combination switch	IPDM E/R		
	Carebination switch	Turn signal lamp		
Turn signal lamp	Combination switch	Combination meter		
lldl	11	Turn signal lamp		
Hazard lamp	Hazard switch	Combination meter		
	Key switch			
	Key fob			
Room lamp timer	Power window main switch (door lock and unlock switch)	Interior room lamp		
	Front door switch driver side			
	All-door switch			
Management of the second	Key switch			
Key warning chime	Front door switch driver side	Combination meter (warning buzzer)		
	Combination switch			
Light warning chime	Key detection switch	Combination meter (warning buzzer)		
	Front door switch driver side			
Seat belt warning chime	Combination meter (Seat belt buckle (driver side) switch)	Combination meter (warning buzzer)		
W11.1	Combination switch	IDDM F (D		
Vehicle-speed-sensing intermittent wiper	Combination meter	IPDM E/R		
Rear window defogger	Rear window defogger switch	IPDM E/R		
Air conditioner switch signal	A/C auto amplifier	ECM		
Blower fan switch signal	A/C auto amplifier	ECM		

CAN Communication System Description

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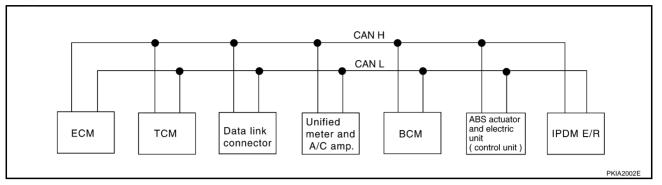
CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicles are equipped with many electronic control units and each control unit shares 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 AKS003MH Body type Coupe 2WD Axle VQ35DE Engine Transmission M/T A/T Brake control **TCS** ABS TCS VDC Not appli-Not appli-Applica-Not appli-Applica-Not appli-Applica-Low tire pressure warning system cable cable cable ble cable ble CAN communication unit ECM × × × × **TCM** × Data link connector Unified meter and A/C amp. X × × ВСМ × × × × × × Low tire pressure warning control unit × X × Steering angle sensor × × ABS actuator and electric unit (control unit) × × × × VDC/TCS/ABS control unit × × IPDM E/R × X × BCS-11, "TYPE 4/ BCS-12, "TYPE 6/ BCS-9, BCS-10, "TYPE 2/ CAN communication type <u>"TYPE 1"</u> TYPE3" TYPE5" TYPE7"

^{×:} Applicable

TYPE 1 System diagram

Type1



Input/output signal chart

						nit R: Receive
Signals	ECM	ТСМ	Unified meter and A/C amp.	ВСМ	ABS actuator and electric unit (control unit)	IPDM E/R
A/C switch signal	R			Ţ		
A/C compressor request signal	Т					R
A/C compressor feedback signal	Т		R			
Blower fan motor switch signal	R			Ţ		
Cooling fan speed request signal	Т					R
Position lights request signal			R	T		R
Low beam request signal				Т		R
Low beam status signal	R					Т
High beam request signal			R	T		R
High beam status signal	R					Т
Vehicle speed signal			R		Т	
vernicie speed signal	R	R	Т	R		
Sleep request 1 signal			R	T		
Sleep request 2 signal				Ţ		R
Wake up request 1 signal			R	T		
Door switch signal			R	T		R
Turn indicator signal			R	Т		
Seat belt buckle switch signal			Т	R		
Buzzer output signal			R	Т		
Front wiper request signal				T		R
Front wiper stop position signal				R		Т
Rear window defogger switch signal				Т		R
Rear window defogger control signal	R					Т
Hood switch signal				R		Т
Theft warning horn request signal				Т		R
Horn chirp signal				Т		R

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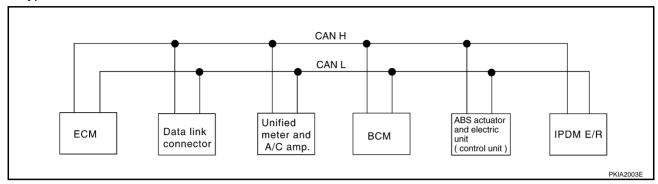
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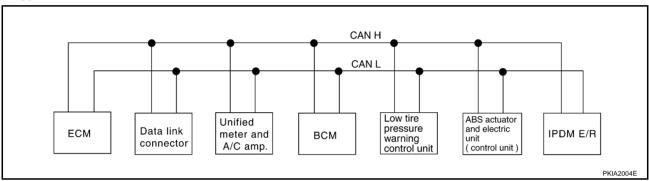
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TYPE 2/TYPE3 System diagram

Type2



Type3



Input/output signal chart

T: Transmit R: Receive

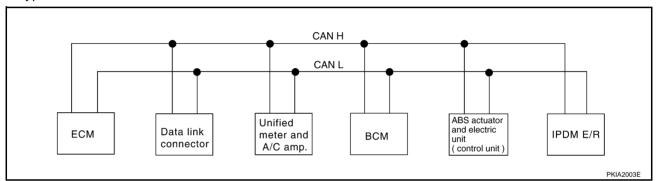
Signals	ECM	Unified meter and A/C amp.	ВСМ	Low tire pres- sure warning control unit	ABS actuator and electric unit (control unit)	IPDM E/R
A/C switch signal	R		T			
A/C compressor request signal	Т					R
A/C compressor feedback signal	Т	R				
Blower fan motor switch signal	R		Т			
Cooling fan speed request signal	Т					R
Position lights request signal			R	Т		R
Low beam request signal			Т			R
Low beam status signal	R					Т
High beam request signal		R	Ţ			R
High beam status signal	R					Т
Vehicle speed signal		R			Т	
vernicie speed signal	R	Т	R	R		
Sleep request 1 signal		R	Т			
Sleep request 2 signal			Ţ			R
Wake up request 1 signal		R	Т			
Door switch signal		R	Ţ			R
Turn indicator signal		R	Т			
Seat belt buckle switch signal		Т	R			
Buzzer output signal		R	T			

Signals	ECM	Unified meter and A/C amp.	всм	Low tire pres- sure warning control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Front wiper request signal			Т			R
Front wiper stop position signal			R			Т
Rear window defogger switch signal			T			R
Rear window defogger control signal	R					Т
Hood switch signal			R			Т
Theft warning horn request signal			Т			R
Horn chirp signal			Т			R

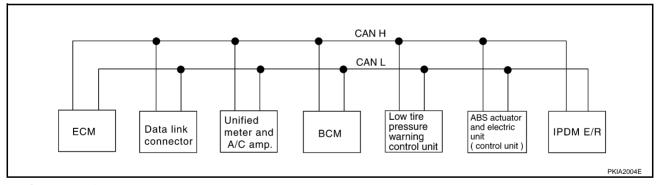
TYPE 4/TYPE5

System diagram

Type4



Type5



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	Unified meter and A/C amp.	ВСМ	Low tire pres- sure warning control unit	ABS actuator and electric unit (control unit)	IPDM E/R
A/C switch signal	R		Т			
A/C compressor request signal	Т					R
A/C compressor feedback signal	Т	R				
Blower fan motor switch signal	R		Т			
Cooling fan speed request signal	Т					R
Position lights request signal		R	Т			R
Low beam request signal			Т			R
Low beam status signal	R					Т

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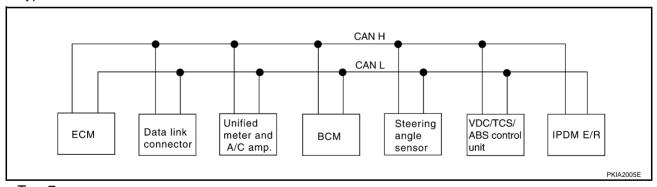
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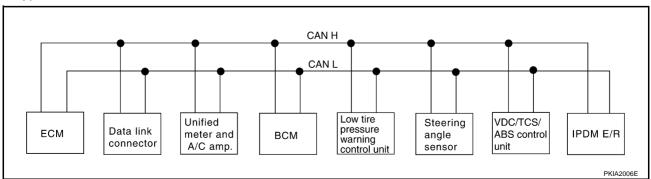
Signals	ECM	Unified meter and A/C amp.	всм	Low tire pressure warning control unit	ABS actuator and electric unit (control unit)	IPDM E/R
High beam request signal		R	T			R
High beam status signal	R					Т
Vahiala anada signal		R			Т	
Vehicle speed signal	R	Т	R	R		
Sleep request 1 signal		R	Т			
Sleep request 2 signal			Т			R
Wake up request 1 signal		R	Т			
Door switch signal		R	Т			R
Turn indicator signal		R	Т			
Seat belt buckle switch signal		Т	R			
Buzzer output signal		R	Т			
Front wiper request signal			Т			R
Front wiper stop position signal			R			Т
Rear window defogger switch signal			Т			R
Rear window defogger control signal	R					Т
Hood switch signal			R			Т
Theft warning horn request signal			Т			R
Horn chirp signal			T			R

TYPE 6/TYPE7 System diagram

Type6



• Type7



Input/output signal chart

Signals	ECM	Unified meter and A/C amp.	ВСМ	Low tire pressure warning con- trol unit	Steering angle sensor	VDC/TCS/ ABS con- trol unit	IPDM E/R
A/C switch signal	R		Т				
A/C compressor request signal	Т						R
A/C compressor feedback signal	Т	R					
Blower fan motor switch signal	R		Т				
Cooling fan speed request signal	Т						R
Position lights request signal		R	Т				R
Low beam request signal			Т				R
Low beam status signal	R						Т
High beam request signal		R	Т				R
High beam status signal	R						Т
Valida an and simul		R				Т	
Vehicle speed signal	R	Т	R	R			
Sleep request 1 signal		R	Т				
Sleep request 2 signal			Т				R
Wake up request 1 signal		R	Т				
Door switch signal		R	Т				R
Turn indicator signal		R	Т				
Seat belt buckle switch signal		Т	R				
Buzzer output signal		R	Т				
Front wiper request signal			Т				R
Front wiper stop position signal			R				Т
Rear window defogger switch signal			Т				R
Rear window defogger control signal	R						Т
Hood switch signal			R				Т
Theft warning horn request signal			Т				R
Horn chirp signal			Т				R

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T: Transmit R: Receive

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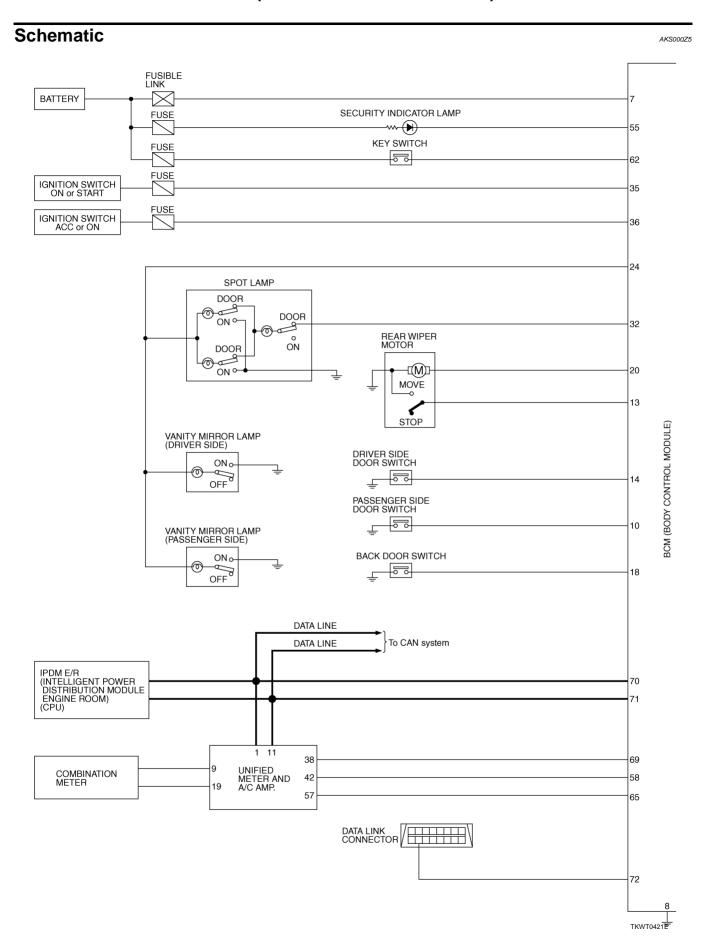
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CONSULT-II

CONSULT-II can display each diagnostic item using the following diagnostic test modes: work support, self-diagnostic results, data monitor and active test through data reception and command transmission via the BCM communication line.

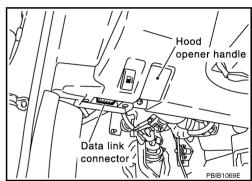
BCM diagnostic test item	Check item, diagnostic test mode	Content	
	WORK SUPPORT	Changes setting of each function.	
	SELF-DIAGNOSIS RESULTS	BCM performs self-diagnosis of CAN communication and cobination switch.	
Inspection by part	DATA MONITOR	Displays the input data of BCM in real time.	
	CAN DIAG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

CONSULT-II INSPECTION PROCEDURE

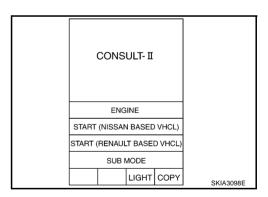
CAUTION:

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

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



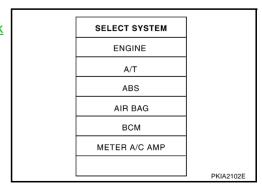
2. Touch "START (NISSAN BASED VHCL)".



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

If "BCM" is not indicated, go to GI-39, "CONSULT-II Data Link

Connector (DLC) Circuit".



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

SELECT TEST ITEM	
MULTI REMOTE ENT	
HEAD LAMP	
COMB SW	
WIPER	
BCM C/U	
FLASHER	
	SKIA1922E
	SKIA1922E

ITEMS OF EACH PART

×:Applicable

						×:Applicable
	CONSULT-II display	Diagnostic test mode (Inspection by part)				
System and item		WORK SUPPORT	SELF-DIAG RESULTS	DATA MONITOR	CAN DIAG SUPPORT MNTR	ACTIVE TEST
Power door lock system	DOOR LOCK	×		×		×
Rear window defogger	REAR DEFOGGER			×		×
Key warning chime	KEY WARN ALM			×		×
Light warning chime	LIGHT WARN ALM			×		×
Seat belt warning chime	SEAT BELT ALM			×		×
Room lamp timer	INT LAMP	×		×		×
Interior lamp battery saver	BATTERY SAVER	×		×		×
Vehicle security system	THEFT ALM	×		×		×
Retained power control	RETAINED PWR	×		×		×
Remote keyless entry system	MULTI REMOTE ENT	×		×		×
Headlamp	HEAD LAMP	×		×		
Combination switch	COMB SW			×		
Wiper	WIPER			×		×
BCM	BCM C/U		×	×	×	
Turn signal lamp Hazard lamp	FLASHER			×		×
NVIS	IMMU			×		×
Air conditioner switch signal Blower fan switch signal	SIGNAL BUFFER			×		×NOTE
Trunk lid	TRUNK					×

NOTE:

This item is displayed, but cannot test it.

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CAN Communication Inspection Using CONSULT-II (Self-Diagnosis)

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1. SELF-DIAGNOSTIC RESULT CHECK

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

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

Contents displayed

No malfunction>>Inspection End

Malfunction in CAN communication system>>After printing the monitor items, go to "CAN System". Refer to LAN-4, "Precautions When Using CONSULT-II"

Inspection of BCM Power Supply and Ground Circuit

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1. FUSE AND FUSIBLE LINK INSPECTION

Check if any of the following BCM fuses and fusible links are blown.

Terminal No.	Signal name	Fuse No., fusible link No.
7	Battery	F
35	Ignition switch ON or START	1
36	Ignition switch ACC or ON	6

Refer to LT wiring diagram LT-H/LAMP-01, LT-18.

OK or NG

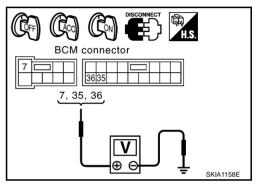
OK >> GO TO 2.

NG >> Replace fuse or fusible link.

2. POWER SUPPLY CIRCUIT INSPECTION

Disconnect BCM connector. To measure voltage, connect following harness connector terminals to positive probe and body ground to negative one.

Terminals					
(+)			Power source	Ignition switch	Reference value
Connector	Terminal (wire color)	(-)			
E105	7(R)		Battery power	OFF	Battery voltage
M1	35 (W/L)	Ground	Ignition power supply	ON	Battery voltage
IVI I	36 (LG)		ACC power supply	ACC	Battery voltage



Refer to LT wiring diagram LT-H/LAMP-01, LT-18.

OK or NG

OK >> GO TO 3.

NG >> Replace BCM power supply circuit harness.

3. GROUND CIRCUIT INSPECTION

Check continuity between the following harness connector of BCM and body ground.

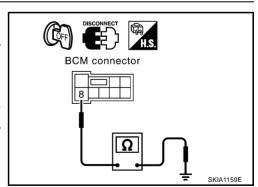
	(+)	(-)	Continuity
Connector	Terminal (wire color)	(-)	
E105	8 (B)	Ground	YES

Refer to LT wiring diagram LT-H/LAMP-01, <u>LT-18</u>.

OK or NG

OK >> Normal

NG >> Replace BCM ground circuit harness.

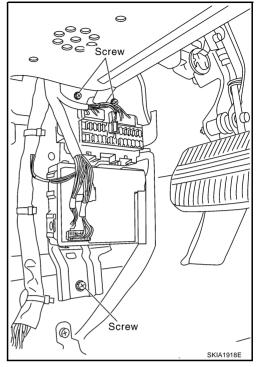


BCS

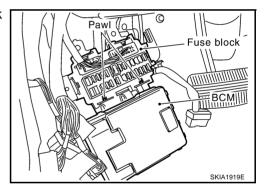
Removal and Installation of BCM REMOVAL

AKS000ZB

- 1. Remove the dash side finisher (LH). Refer to EI-32, "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.



4. Raise the pawl of fuse block and remove bracket from fuse block to remove BCM.



INSTALLATION

Install in the reverse order of removal.