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POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTIONS

PRECAUTIONS PFP:00011

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 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.

Wiring Diagrams and Trouble Diagnosis

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When you read wiring diagrams, refer to the following:

- Refer to GI-13, "How to Read Wiring Diagrams" in GI section.
- Refer to PG-4, "POWER SUPPLY ROUTING CIRCUIT" for power distribution.

When you perform trouble diagnosis, refer to the following:

- Refer to GI-10, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES" in GI section.
- Refer to GI-25, "How to Perform Efficient Diagnosis for an Electrical Incident" in GI section.

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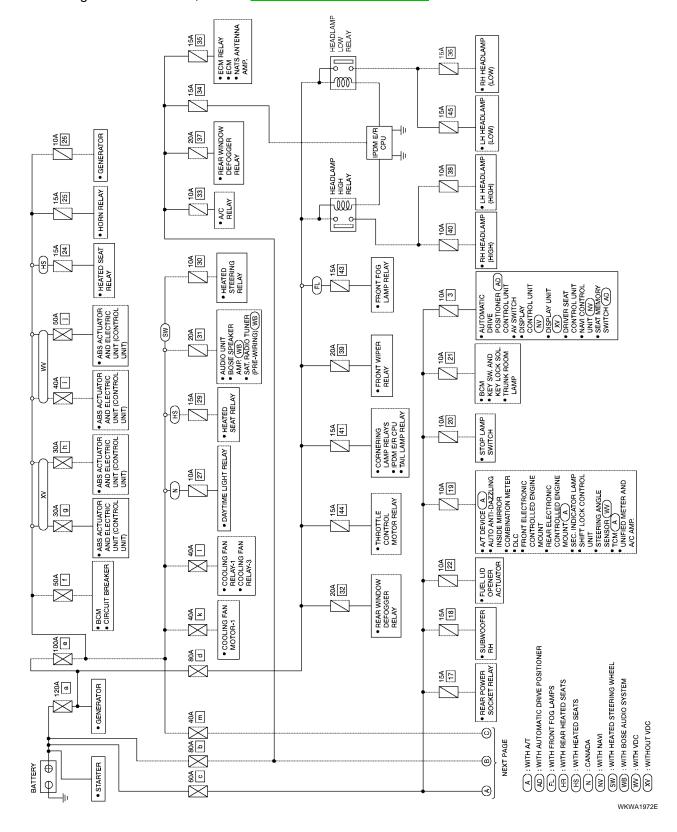
POWER SUPPLY ROUTING CIRCUIT

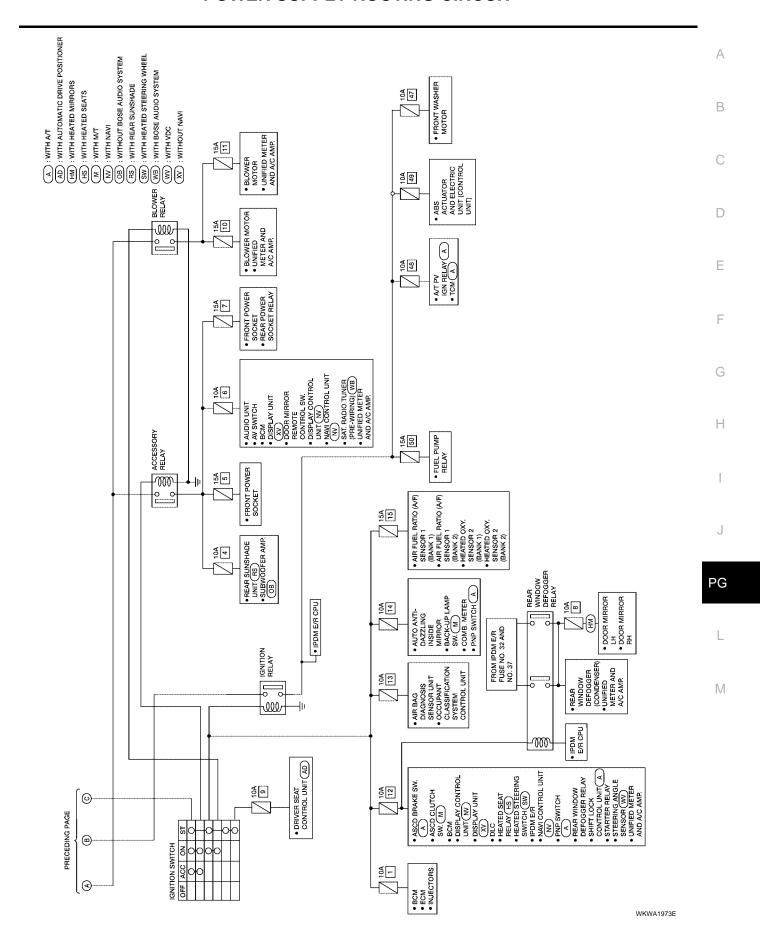
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Schematic

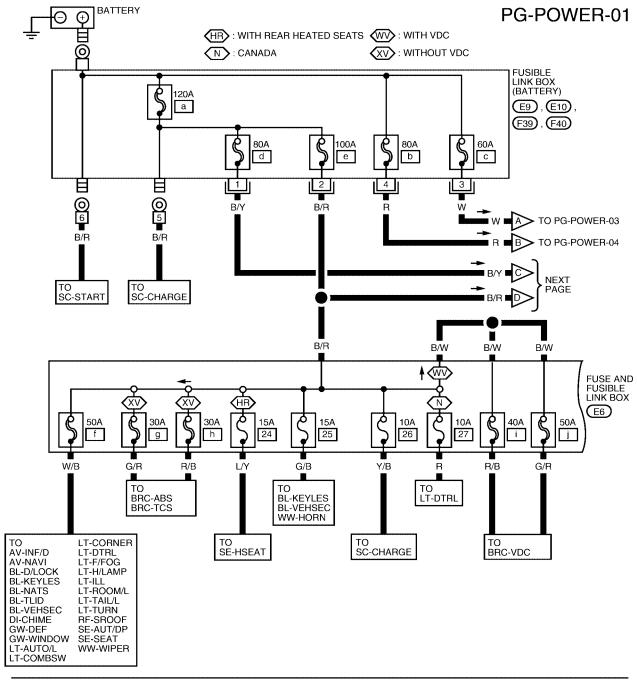
For detailed ground distribution, refer to PG-28, "Ground Distribution".

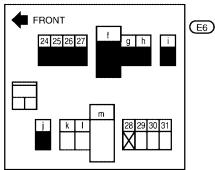


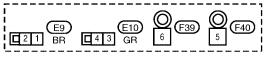


Wiring Diagram — POWER — BATTERY POWER SUPPLY — IGNITION SW. IN ANY POSITION

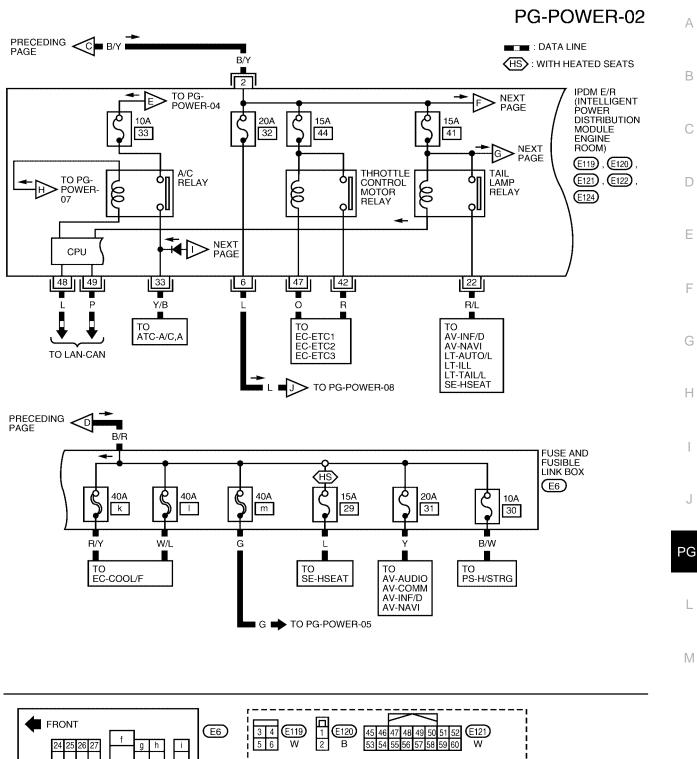
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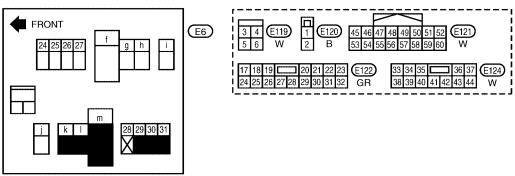






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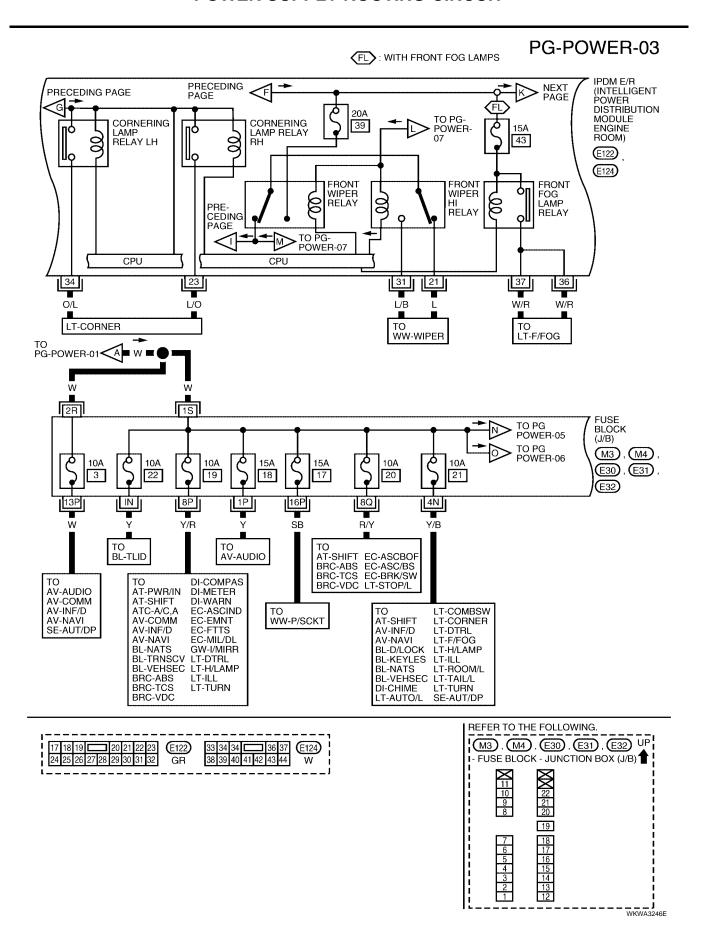
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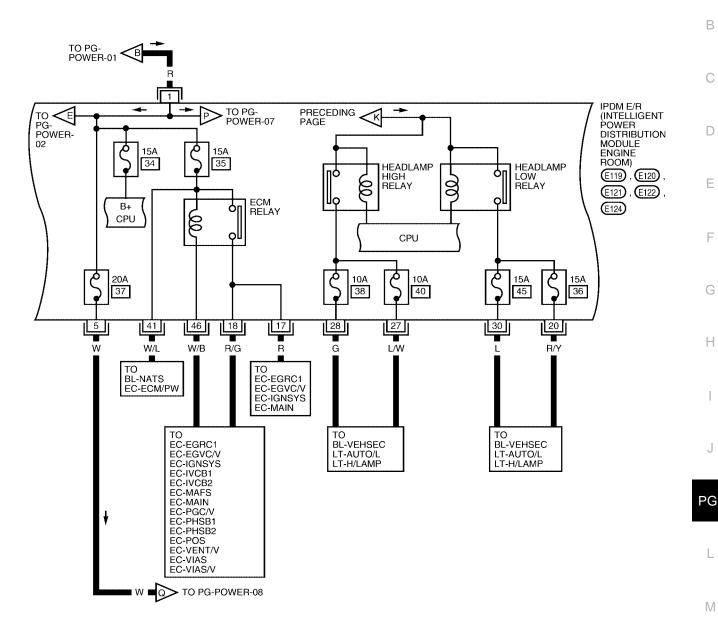
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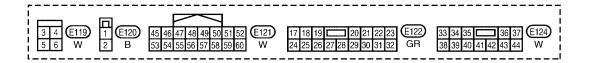
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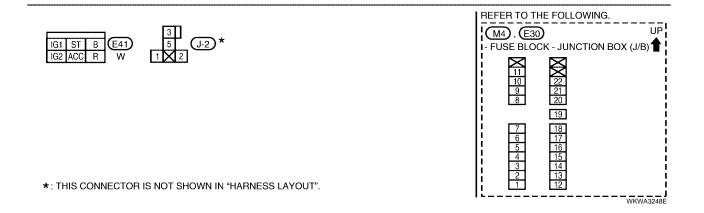
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ACCESSORY POWER SUPPLY — IGNITION SW. IN ACC OR ON PG-POWER-05 **BATTERY** REFER TO "PG-POWER-02". 40A m В IGNITION SWITCH R NEXT PAGE **E**41 ON ACC ACC W/L 6Q FUSE BLOCK (J/B) TO PG-POWER-03 M4), E30 ACCESSORY RELAY (J-2) S NEXT PAGE 10A 10A 15A 4 5 7 6 10P W/B G/W LT-AUTO/L TO WW-P/SCKT TO LT-AOTO/L LT-COMBSW LT-CORNER LT-DTRL LT-F/FOG LT-H/LAMP AV-AUDIO ATC-A/C,A WW-P/SCKT AV-AUDIO AV-COMM AV-INF/D EI-SHADE AV-NAVI LT-ILL LT-TAIL/L LT-TURN AV-W/ANT BL-KEYLES **BL-VEHSEC GW-MIRROR** SE-AUT/DP **GW-WINDOW**



IGNITION POWER SUPPLY — IGNITION SW. IN ON

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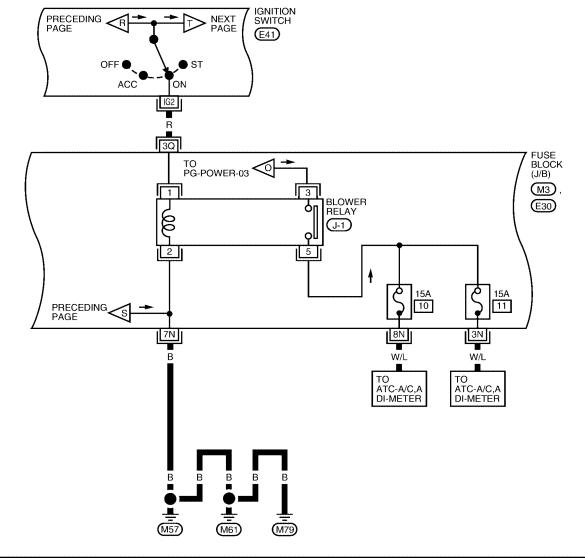
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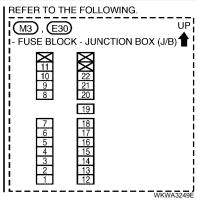
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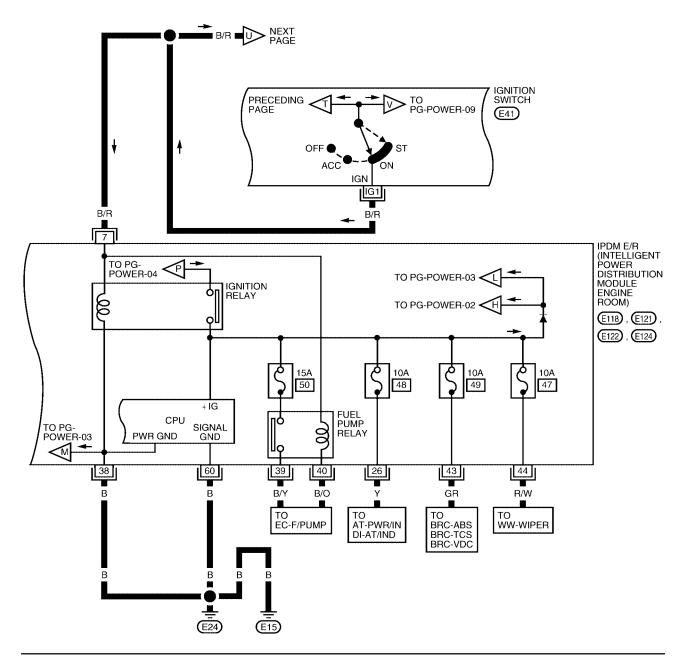
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT".

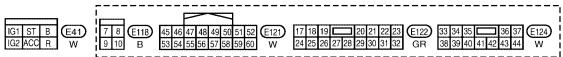
IG1 ST B E41 IG2 ACC R W



IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START

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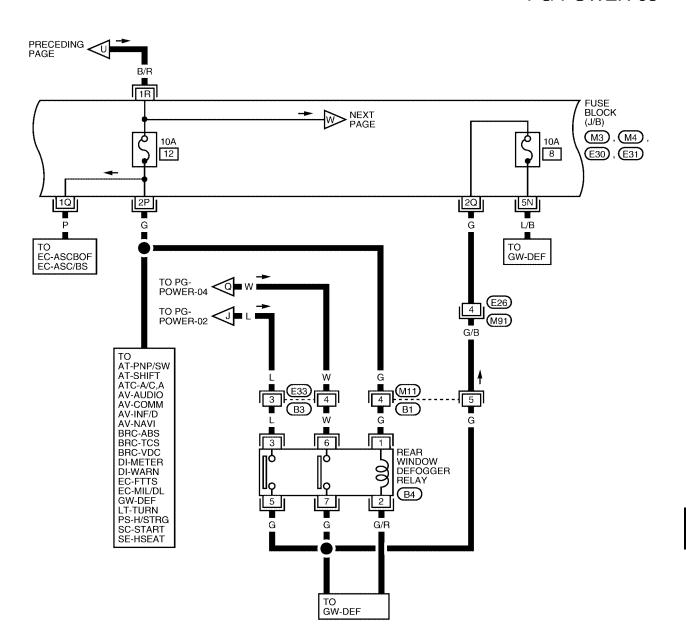
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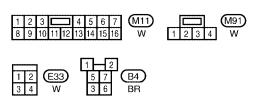
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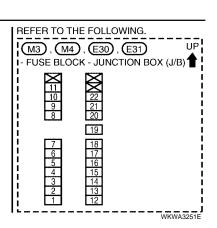
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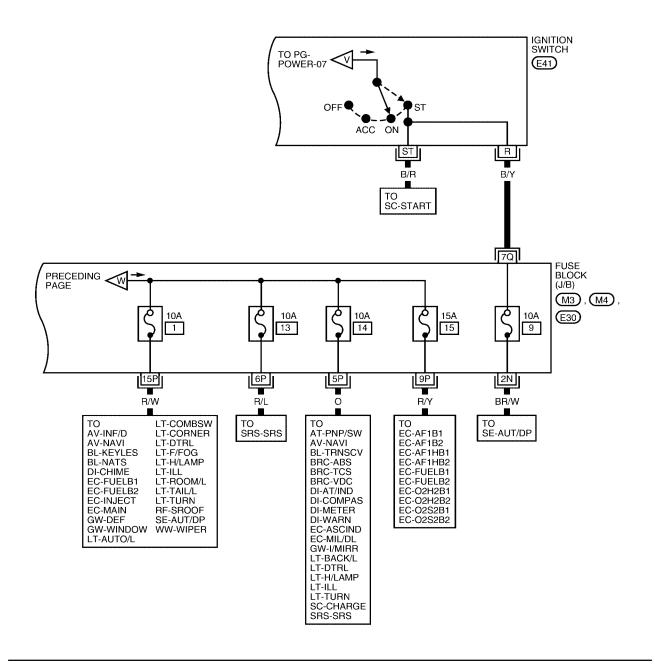
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PG-POWER-09





IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

PFP:284B7 System Description FKS009HZ

IPDM E/R (Intelligent Power Distribution Module Engine Room) integrates the relay box and fuse block which were originally placed in engine compartment. It controls integrated relays via IPDM E/R control circuit.

- IPDM E/R-integrated control circuit performs ON-OFF operation of relays, CAN communication control, oil pressure switch signal reception, etc.
- It controls operation of each electrical component via BCM and CAN communication lines.

None of the IPDM E/R-integrated relays can be removed.

SYSTEMS CONTROLLED BY IPDM E/R

Lamp control

Using CAN communication lines, it receives signal from BCM and controls the following lamps:

- Head lamps (Hi, Lo)
- Parking lamps
- Tail lamps
- Cornering lamps
- Front fog lamps
- 2. Wiper control

Using CAN communication lines, it receives signals from BCM and controls the front wipers.

- 3. Rear window defogger relay control Using CAN communication lines, it receives signals from BCM and controls the rear window defogger relay.
- 4. A/C compressor control Using CAN communication lines, it receives signals from ECM and controls the A/C compressor (magnetic clutch).
- Cooling fan control Using CAN communication lines, it receives signals from ECM and controls cooling fan.
- Using CAN communication lines, it receives signals from BCM and controls horn relay.

CAN COMMUNICATION LINE CONTROL

With CAN communication, by connecting each control unit using two communication lines (CAN L-line, CAN H-line), it is possible to transmit a maximum amount of information with minimum wiring. Each control unit can transmit and receive data, and reads necessary information only.

- Fail-safe control
 - When CAN communication with other control units is impossible, IPDM E/R performs fail-safe control. After CAN communication returns to normal operation, it also returns to normal control.
 - Operation of control parts by IPDM E/R during fail-safe mode is as follows:

Controlled system	Fail-safe mode
Headlamp	With the ignition switch ON, the headlamp (low) is ON.
Headiamp	 With the ignition switch OFF, the headlamp (low) is OFF.
Tail and parking lamps	With the ignition switch ON, the tail and parking lamps are ON.
	 With the ignition switch OFF, the tail and parking lamps are OFF.
Cooling fan	With the ignition switch ON, the cooling fan HI operates.
Cooling lan	 With the ignition switch OFF, the cooling fan stops.
Front wiper	Until the ignition switch is turned off, the front wiper LO and HI remains in the same status it was in just before fail–safe control was initiated.
Rear window defogger	Rear window defogger relay OFF
A/C compressor	A/C compressor OFF
Front fog lamps	Front fog lamp relay OFF

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IPDM E/R STATUS CONTROL

In order to save power, IPDM E/R switches status by itself based on each operating condition.

- 1. CAN communication status
 - CAN communication is normally performed with other control units.
 - Individual unit control by IPDM E/R is normally performed.
 - When sleep request signal is received from BCM, mode is switched to sleep waiting status.
- 2. Sleep waiting status
 - Process to stop CAN communication is activated.
 - All systems controlled by IPDM E/R are stopped. When 1 second has elapsed after CAN communication with other control units is stopped, mode switches to sleep status.
- 3. Sleep status
 - IPDM E/R operates in low current-consumption mode.
 - CAN communication is stopped.
 - When a change in CAN communication signal is detected, mode switches to CAN communication status.
 - When a change in ignition switch signal is detected, mode switches to CAN communication status.

Function of Detecting Ignition Relay Malfunction

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- When the integrated ignition relay is stuck in a "closed contact" position and cannot be turned OFF, IPDM E/R turns ON tail and parking lamps for 10 minutes to indicate IPDM E/R malfunction.
- When the state of the integrated ignition relay does not agree with the state of the ignition switch signal received via CAN communication, the IPDM E/R activates the tail lamp relay.

Ignition switch signal	Ignition relay status	Tail lamp relay
ON	ON	_
OFF	OFF	_
ON	OFF	_
OFF	ON	ON (10 minutes)

NOTE:

When the ignition switch is turned ON, the tail lamps are OFF.

CONSULT-II Function (IPDM E/R)

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

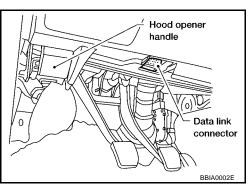
IPDM E/R diagnostic mode	Description
SELF-DIAG RESULTS	Displays IPDM E/R self-diagnosis results.
DATA MONITOR	Displays IPDM E/R input/output data in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Operation of electrical loads can be checked by sending drive signal to them.

CONSULT-II BASIC OPERATION

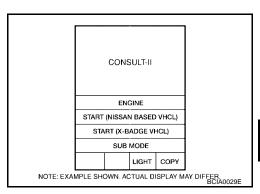
CAUTION:

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

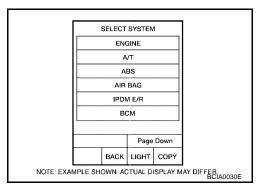
 With the ignition switch OFF, connect CONSULT-II and CON-SULT-II CONVERTER to the data link connector, then turn ignition switch ON.



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



- Touch "IPDM E/R" on "SELECT SYSTEM" screen.
 - If "IPDM E/R" is not displayed, print "SELECT SYSTEM" screen, then refer to GI-37, "CONSULT-II Data Link Connector (DLC) Circuit".



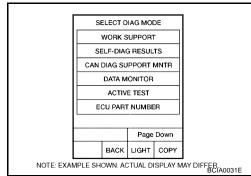
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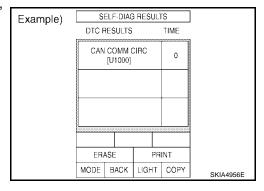
4. Select the desired part to be diagnosed on the "SELECT DIAG MODE" screen.



SELF-DIAGNOSTIC RESULTS

Operation Procedure

- Touch "SELF-DIAG RESULTS" on "SELECT DIAG MODE" screen.
- Self-diagnosis results are displayed.



Display Item List

Disalouiteas	CONSULT-II	Error return condition		ME	Possible
Display items	display code			PAST	causes
NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.	_	_	_	_	_
CAN COMM CIRC	U1000	 If CAN communication reception/transmission data has an error, or if any of the control units fail, data reception/transmission cannot be confirmed. When the data in CAN communication is not received before the specified time. 	Х	Х	Any of items listed below have errors: TRANSMIT DIAG ECM BCM/SEC

NOTE:

The details for display of the period are as follows:

- CRNT: Error currently detected with IPDM E/R.
- PAST: Error detected in the past and placed in IPDM E/R memory.

DATA MONITOR

Operation Procedure

- Touch "DATA MONITOR" on "SELECT DIAG MODE" screen.
- Touch "ALL SIGNALS", "MAIN SIGNALS" or "SELECTION FROM MENU" on the "DATA MONITOR" screen.

ALL SIGNALS	All signals will be monitored.
MAIN SIGNALS	Monitors the predetermined item(s).
SELECTION FROM MENU	Selects and monitors individual signal(s).

- 3. Touch "START".
- 4. Touch the required monitoring item on "SELECTION FROM MENU".

Touch "RECORD" while monitoring to record the status of the item being monitored. To stop recording, touch "STOP".

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All Signals, Main Signals, Selection From Menu

CONSULT-II			Monitor item selection			
Item name	screen display	Display or unit	ALL SIGNALS	MAIN SIGNALS	SELECTION FROM MENU	Description
Motor fan request	MOTOR FAN REQ	1/2/3/4	Х	Х	Х	Signal status input from ECM
Compressor request	AC COMP REQ	ON/OFF	Х	Х	Х	Signal status input from ECM
Position lights request	TAIL & CLR REQ	ON/OFF	Х	Х	Х	Signal status input from BCM
Headlamp LO request	HL LO REQ	ON/OFF	Х	Х	Х	Signal status input from BCM
Headlamp HI request	HL HI REQ	ON/OFF	Х	Х	Х	Signal status input from BCM
Front fog lights request	FR FOG REQ	ON/OFF	Х	Х	Х	Signal status input from BCM
FR wiper request	FR WIP REQ	STOP/1LO/LO/HI	Х	Х	Х	Signal status input from BCM
Wiper auto stop	WIP AUTO STOP	ACT P/STOP P	Х	Х	Х	Output status of IPDM E/R
Wiper protection	WIP PROT	OFF/LS/HS/Block	Х		Х	Control status of IPDM E/R
Starter request	ST RLY REQ	ON/OFF	Х		Χ	Status of input signal NOTE
Ignition relay status	IGN RLY	ON/OFF	Х	Х	Х	Ignition relay status monitored with IPDM E/R
Rear defogger request	RR DEF REQ	ON/OFF	Х	Х	Х	Signal status input from BCM
Oil pressure switch	OIL P SW	OPEN/CLOSE	Х		Х	Signal status input from IPDM E/R
Theft warning horn request	THFT HRN REQ	ON/OFF	Х		X	Signal status input from BCM
Horn chirp	HORN CHIRP	ON/OFF	Х		Х	Output status of IPDM E/R
Cornering lamp request	CRNRNG LMP REQ	OFF/LEFT/RIGHT	Х		Х	Signal status input from BCM

NOTE:

Perform monitoring of IPDM E/R data with the ignition switch ON. When the ignition switch is in ACC position, display may not be correct.

ACTIVE TEST

Operation Procedure

- 1. Touch "ACTIVE TEST" on "SELECT DIAG-MODE" screen.
- 2. Touch item to be tested, and check operation.
- 3. Touch "START".
- 4. Touch "STOP" while testing to stop the operation.

Test name	CONSULT-II screen display	Description
Tail lamp output	TAIL LAMP	With a certain ON-OFF operation, the tail lamp relay can be operated.
Rear defogger output	REAR DEFOGGER	With a certain ON-OFF operation, the rear defogger relay can be operated.
Front wiper (HI, LO) output	FRONT WIPER	With a certain operation (OFF, HI ON, LO ON), the front wiper relay (Lo, Hi) can be operated.
Cooling fan output	MOTOR FAN	With a certain operation (1, 2, 3, 4), the cooling fan can be operated.
Lamp (HI, LO, FOG) output	LAMPS	With a certain operation (OFF, HI ON, LO ON, FOG ON), the lamp relay (Lo, Hi, Fog) can be operated.

Test name	CONSULT-II screen display	Description
Cornering lamp output	CORNERING LAMP	With a certain operation (OFF, ON), the cornering lamp relay (RH, LH) can be operated.
Horn output	HORN	With a certain ON-OFF operation, the horn relay can be operated.

Auto Active Test DESCRIPTION

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- In auto active test mode, operation inspection can be performed when IPDM E/R sends a drive signal to the following systems:
- Rear window defogger
- Front wipers
- Tail and parking lamps
- Cornering lamps
- Front fog lamps
- Headlamps (Hi, Lo)
- A/C compressor (magnetic clutch)
- Cooling fan

OPERATION PROCEDURE

1. Close hood and front door RH, and lift wiper arms away from windshield (to prevent glass damage by wiper operation).

NOTE:

When auto active test is performed with hood opened, sprinkle water on windshield beforehand.

- 2. Turn ignition switch OFF.
- 3. Turn ignition switch ON and, within 20 seconds, press front door switch LH 10 times. Then turn ignition switch OFF.
- 4. Turn ignition switch ON within 10 seconds after ignition switch OFF.
- 5. When auto active test mode is actuated, horn chirps once.
- 6. After a series of operations is repeated three times, auto active test is completed.

NOTE:

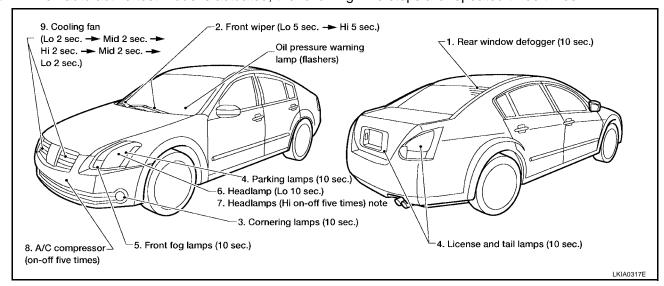
When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

CAUTION:

Be sure to perform BL-29, "Door Switch Check" when the auto active test cannot be performed.

INSPECTION IN AUTO ACTIVE TEST MODE

When auto active test mode is actuated, the following nine steps are repeated three times.



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NOTE:

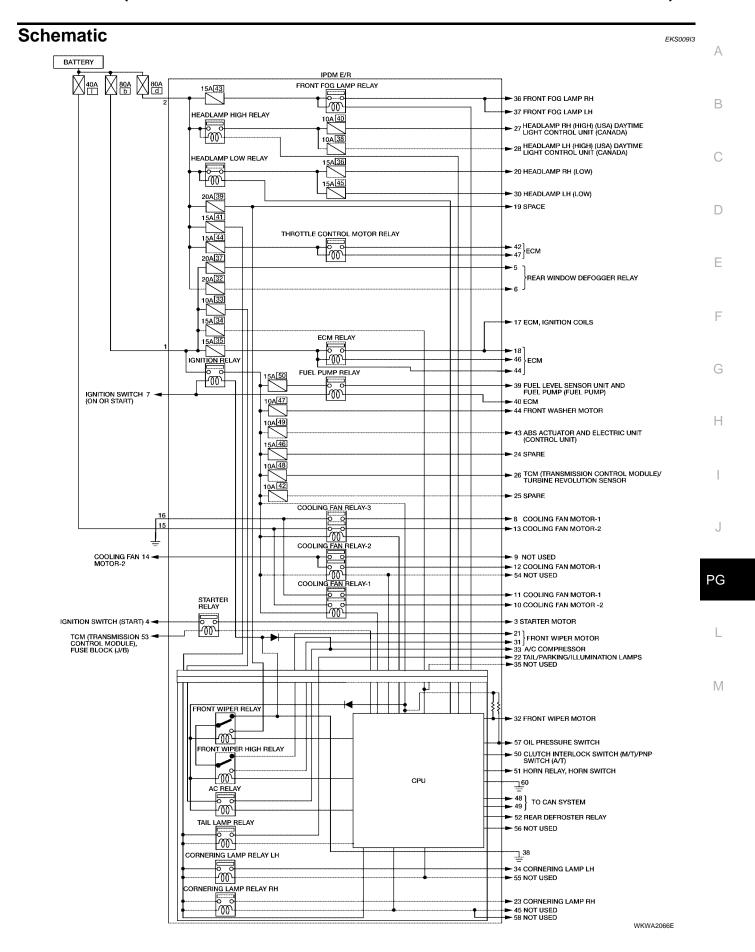
Turns ON-OFF the solenoid to switch Hi/Lo. In this case, the bulb does not illuminate.

Concept of Auto Active Test

- IPDM E/R actuates auto active test mode when it receives door switch signal from BCM via CAN communication line. Therefore, when auto active test mode is activated successfully, CAN communication between IPDM E/R and BCM is normal.
- If any of the systems controlled by IPDM E/R cannot be operated, possible cause can be easily diagnosed using auto active test.

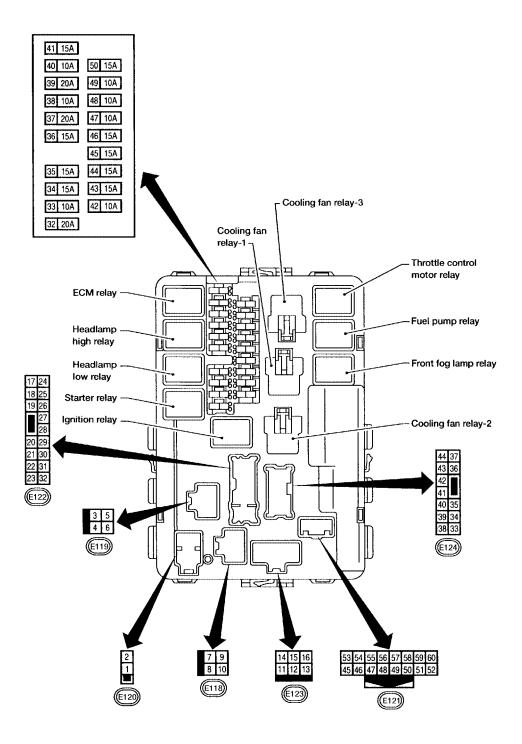
Diagnosis chart in auto active test mode

Symptom	Inspection conte	Inspection contents Possible cause		
	YES		BCM signal input system	
Any of front wipers, tail and parking lamps, front fog lamps, cornering lamps, and head lamps (Hi, Lo) do not operate.	Perform auto active test. Does system in question operate?	NO	 Lamp/wiper motor malfunction Lamp/wiper motor ground circuit malfunction Harness/connector malfunction between IPDM E/R and system in question IPDM E/R (integrated relay) malfunction 	
	Perform auto active	YES	BCM signal input circuit	
Rear window defogger does not operate.	Perform auto active test. Does rear window defogger operate?		 Rear window defogger relay circuit Open circuit of rear window defogger IPDM E/R malfunction 	
N/C company door	Perform auto active	YES	 BCM signal input circuit CAN communication signal between BCM and ECM. CAN communication signal between ECM and IPDM E/R 	
A/C compressor does	test. Does magnetic clutch operate?	NO	Magnetic clutch malfunction Harness/connector malfunction between IPDM E/R and magnetic clutch IPDM E/R (integrated relay) malfunction	
	B (, , , ;	YES	ECM signal input circuit CAN communication signal between ECM and IPDM E/R	
Cooling fan does not operate.	Perform auto active test. Does cooling fan operate?	NO	 Cooling fan motor malfunction Harness/connector malfunction between IPDM E/R and cooling fan motor IPDM E/R (integrated relay) malfunction 	
Oil pressure warning	Perform auto active test. Does oil pres-	YES	 Harness/connector malfunction between IPDM E/R and oil pressure switch Oil pressure switch malfunction 	
lamp does not operate. sure warning lamp blink?		NO	 CAN communication signal between BCM and Unified Meter and A/C Amp Combination meter 	



IPDM E/R Terminal Arrangement

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IPDM E/R Power/Ground Circuit Inspection

1. FUSE AND FUSIBLE LINK INSPECTION

Check that the following fusible links or IPDM E/R fuses are not blown.

Terminal No.	Signal name	Fuse, fusible link No.
1, 2	Battery power	a, b, d

OK or NG

OK >> GO TO 2.

NG >> Replace fuse or fusible link.

2. POWER CIRCUIT INSPECTION

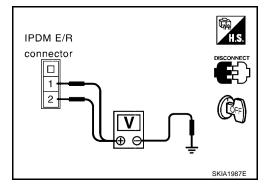
- 1. Disconnect IPDM E/R harness connector E120.
- 2. Check voltage between IPDM E/R harness connector E120 terminals 1 (R), 2 (B/Y) and ground.

Battery voltage should exist

OK or NG

OK >> GO TO 3.

NG >> Repair or replace IPDM E/R power circuit harness.



3. GROUND CIRCUIT INSPECTION

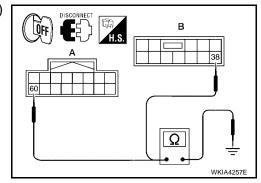
- 1. Disconnect IPDM E/R harness connectors E121 and E124.
- 2. Check continuity between IPDM E/R harness connector (A) E121 terminal 60 (B), (B) E124 terminal 38 (B) and ground.

Continuity should exist

OK or NG

OK >> Inspection End.

NG >> Repair or replace ground circuit harness of IPDM E/R.



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Inspection with CONSULT-II (Self-Diagnosis)

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CAUTION

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

1. SELF-DIAGNOSIS RESULT CHECK

- 1. Connect CONSULT-II and select "IPDM E/R" on the Diagnosis System Selection screen.
- 2. Select "SELF-DIAG RESULTS" on the diagnosis mode selection screen.
- Check display content in self-diagnosis results.

CONSULT-II Display	CONSULT-II display code	TIME		Details of diagnosis result
CONSOLI-II Display		CRNT	PAST	Details of diagnosis result
NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.	_	_	_	No malfunction
CAN COMM CIRC	U1000	Х	Х	Any of items listed below have errors: TRANSMIT DIAG ECM BCM/SEC

NOTE:

The Details for Display for the Period are as follows:

- CRNT: Error currently detected by IPDM E/R.
- PAST: Error detected in the past and stored in IPDM E/R memory.

Contents displayed

NO DTC DETECTED. FURTHER TESTING MAY BE REQUIRED.>>INSPECTION END. CAN COMM CIRC>>Print out the self diagnosis results and refer to LAN-7, "CAN COMMUNICATION".

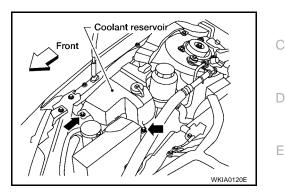
Removal and Installation of IPDM E/R REMOVAL

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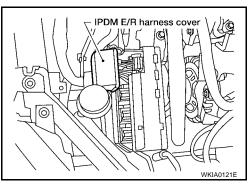
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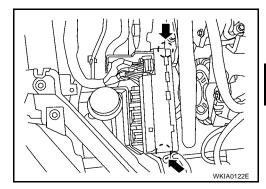
- 1. Disconnect negative battery cable.
- 2. Remove engine side cover RH.
- 3. Remove 2 bolts and position coolant reservoir aside.
- 4. Remove IPDM E/R upper cover.



5. Remove IPDM E/R harness cover.



- 6. Release 2 clips and pull IPDM E/R up from case.
- 7. Disconnect IPDM E/R connectors and remove the IPDM E/R.



INSTALLATION

Installation is in the reverse order of removal.

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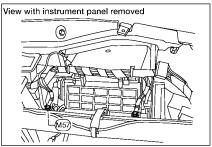
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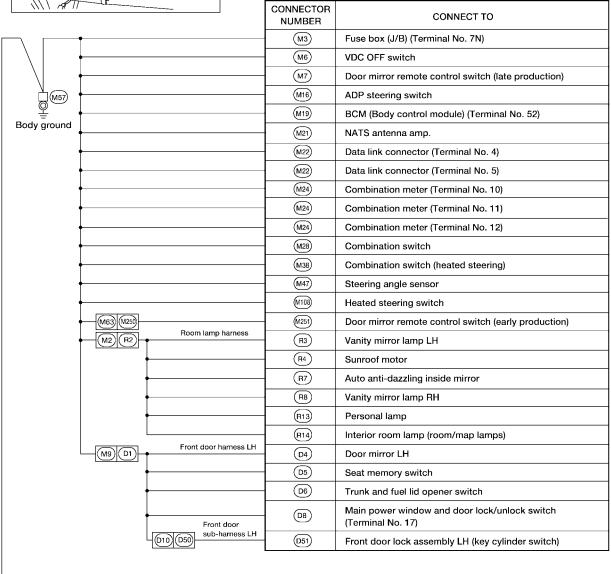
Next page

Ground Distribution MAIN HARNESS

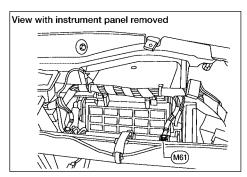
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WKIA3211E



Preceding page		CONNECTOR NUMBER	CONNECT TO	
			M5)	Illumination control switch
			(M6)	TCS ON/OFF switch
<u> </u>		Engine control	(M31)	Shift lock control unit (Terminal No. 8)
□ (M61)	M70 F58 M70	1 harnoce	(M34)	A/T device (Terminal No. 11)
Body ground			(M35)	Air bag diagnosis sensor unit
			(M39)	Air mix door motor driver
			(M40)	Mode door motor
,			(M42)	Automatic drive positioner control unit
			M50	Unified meter and A/C amp. (Terminal No. 29)
			(M50)	Unified meter and A/C amp. (Terminal No. 30)
ı			(M55)	Hazard switch
			(M58)	Intake door motor
,			(M59)	Glove box lamp
			(M64)	Fan control amp.
			(M87)	Air mix door motor passenger
,			M93)	Display unit
,			(M94)	Display control unit
		Control	(M98)	AV switch
,	M23 M171	sub-harness	(M172)	Front power socket (front center console)
		Console	(M184)	Front power socket (for cigarette lighter)
	M26 M180	sub-harness	(M181)	Front heated seat switch LH
		•	M182	Front heated seat switch RH
		LED	M183	Rear sunshade front switch
	M111 M200 sub-harne:	sub-harness	(M202)	Front passenger air bag off indicator
		Engine control harness	(F29)	Park/neutral position (PNP) switch (Terminal No. 6) (with A/T)
			(F37)	Turbine revolution sensor (shield wire)
<u> </u>		•	F38	Revolution sensor (shield wire)
∨ ext page	Front door	(F56)	TCM (Terminal No. 14)	
		F57	TCM (Terminal No. 48)	
	M75 D101	harness RH	(D105)	Power window and door lock/unlock switch RH (Terminal No. 11)
			(D107)	Door mirror RH

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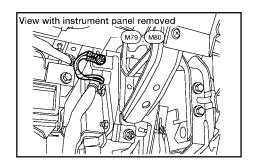
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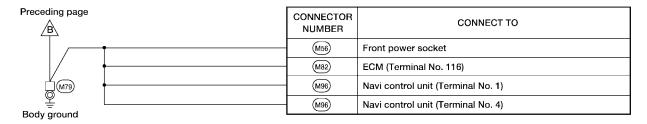
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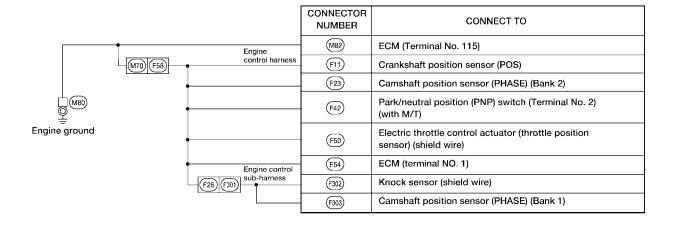
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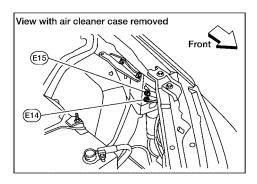




WKIA3214E

ENGINE ROOM HARNESS

Next page



	CONNECTOR NUMBER	CONNECT TO
(E29) (M10) Main harness	M35	Air bag diagnosis sensor unit (shield wire) (Terminal No.16)

Body ground CONNECTOR CONNECT TO NUMBER (E11) Front combination lamp LH (Terminal No. 4) (E11) Front combination lamp LH (Terminal No. 8) **E11** Front combination lamp LH (Terminal No. 10) (E15) (E11) Front combination lamp LH (Terminal No. 12) (E21) Brake fluid level switch Body ground (E23) Front wiper motor (E34) Clutch interlock switch (with M/T) (E43) Cornering lamp LH

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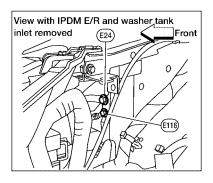
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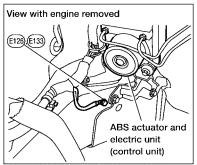
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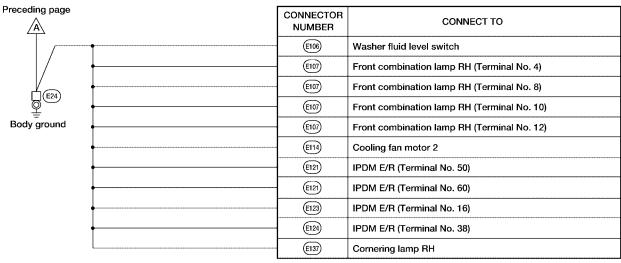
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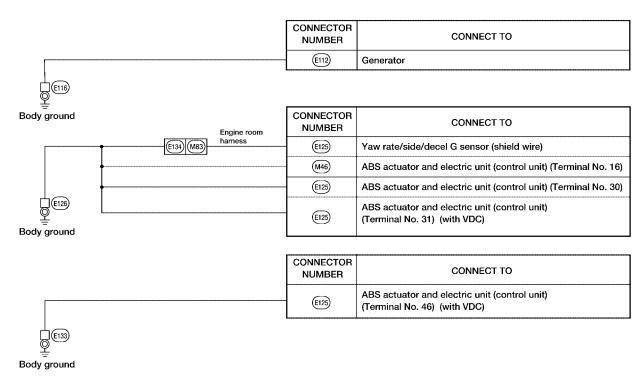
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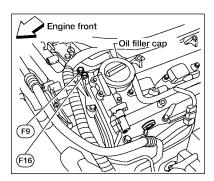






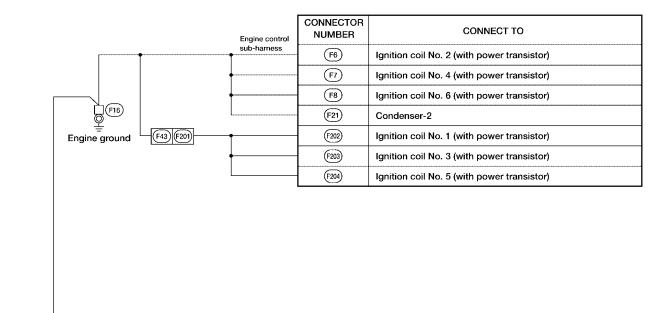
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ENGINE CONTROL HARNESS



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Engine ground



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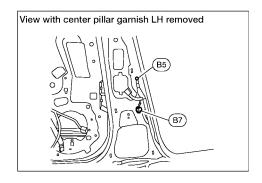
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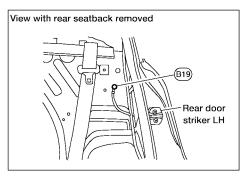
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BODY HARNESS



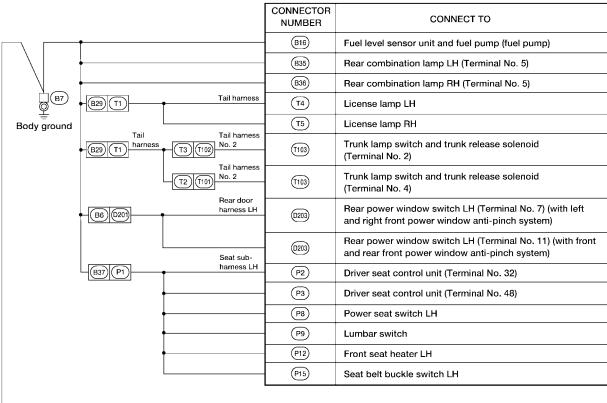


CONNECTOR NUMBER	CONNECT TO
 B9	Air bag diagnosis sensor unit (shield wire) (Terminal No. 44) (with side air bags)

Body ground

(B19)

Body ground

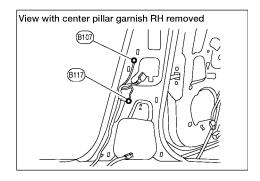


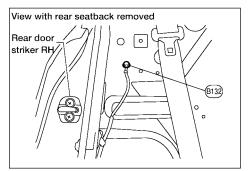
CONNECTOR NUMBER CONNECT TO

(B1) Condenser-1

WKIA3217E

BODY NO. 2 HARNESS





CONNECTOR NUMBER	CONNECT TO
B113)	Air bag diagnosis sensor unit (shield wire) (Terminal No. 40)

(B107) Q Body ground

Body ground

CONNECTOR CONNECT TO NUMBER (B105) Rear power socket relay (B109) Heated seat relay (B126) Subwoofer RH B117 (B127) BOSE speaker amp. (B129) High mounted stop lamp Body ground (B130) Rear sunshade unit (built-in motor) (B133) Subwoofer amp. Body (B125) (B201) (B202) Rear power socket (B203) Rear heated seat switch LH (B204) Rear heated seat switch RH (B205) Rear seat heater LH (B206) Rear seat heater RH (B207) Rear sunshade rear switch (B208) Rear console lamp Rear door harness RH Rear power window switch RH (Terminal No. 7) (B106) (D301) (D303) (with left and right front power window anti-pinch system) Rear power window switch RH (Terminal No. 11) (D303) (with front and rear power window anti-pinch system) Seat subharness RH (B134) (P101) (P102) Power seat switch RH (P106) Front seat heater RH (P115) Seat belt buckle switch RH (B134) (P101) P151 P200 (P201) Occupant classification system control unit □ (B132)

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Revision: July 2005 PG-35 2005 Maxima

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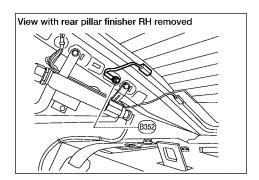
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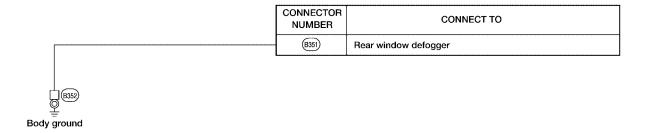
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HARNESS PFP:24010

Harness Layout HOW TO READ HARNESS LAYOUT

The following Harness Layouts use a map style grid to help locate connectors on the drawings:

- Main Harness
- Engine Room Harness LH View (Engine Compartment)
- Engine Room Harness RH View (Engine Compartment)
- Engine Control Harness
- Body Harness and Tail Harness
- Body No. 2 Harness and Body No. 3 Harness

To use the grid reference

- 1. Find the desired connector number on the connector list.
- 2. Find the grid reference.
- 3. On the drawing, find the crossing of the grid reference letter column and number row.
- 4. Find the connector number in the crossing zone.
- 5. Follow the line (if used) to the connector.

CONNECTOR SYMBOL

Main symbols of connector (in Harness Layout) are indicated below.

Connector type	Water pro	oof type	Standa	ard type
Connector type	Male	Female	Male	Female
Cavity: 4 or Less				\bigcirc
 Relay connector 		ا		
Cavity: From 5 to 8				
Cavity: 9 or More	\Diamond	\Diamond		\Diamond
Ground terminal etc.	_	-	6	2

Example:

G2 E1 B/6 : ASCD ACTUATOR

Connector color/Cavity

Connector number

Grid reference

PG

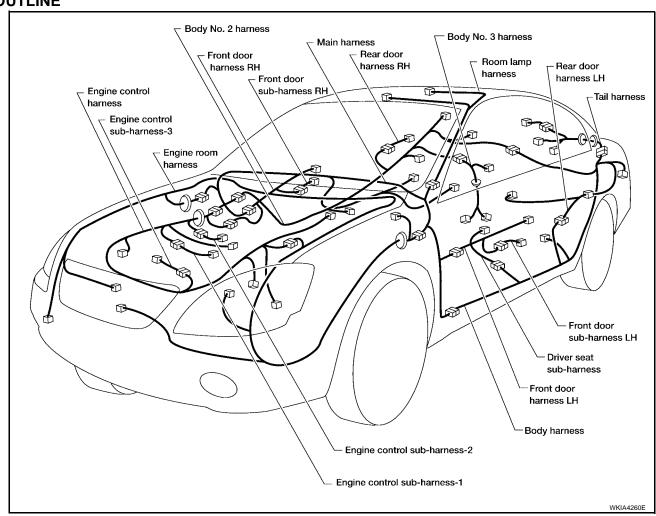
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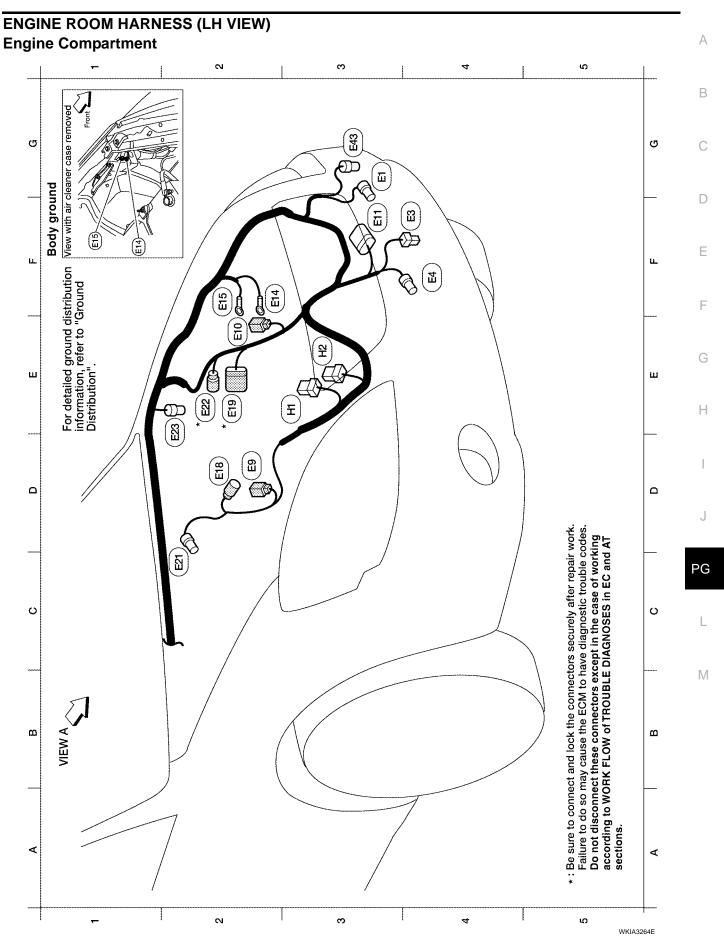
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OUTLINE



i. To (#10) i. Air mix door motor (passenger) i. To (#22) i. To (#22) i. Unified meter and A/C amp. i. To (#28) i.	To (MES)
W/16 W/16 W/24 W/16 W/16 W/17 W/16 W/16 W/16 W/16 W/16 W/16 W/16 W/16) W/12) W/16) BR/16 to previou
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 (M250) 3 (M251) 3 (M251) : Refer t
E E 4 E 4 E 7 E E E E E E E E E E E E E	* B B B F
Automatic drive positioner control unit Automatic drive positioner control unit Audio unit Audio unit Audio unit Audio unit Audio unit Steering angle sensor Steering angle sensor Infined meter and A/C amp. Unified meter and A/C amp. Unified meter and A/C amp. Trunk lid opener cancel switch Hazard switch Front power socket Body ground Intake door motor Glove box lamp Body ground Intake door motor Glove box lamp Body ground Slower motor Glove son lamp Body ground Slower motor To (#28) (with auto drive positioner (early production) To (#28) (without auto routor Tilt motor To (#39) To (£58) To (£58) To (£58)	
W/32 W/16 W/10 W/16 W/16 W/16 W/16 W/2 GR/20 GR/16 W/2 W/17 W/17 W/17 W/17 W/17 W/17 W/17 W/17	
	WB WB3 (WB4)
2 2 4 4 4 ft 2 gt 2	92 T T T T T T T T T T T T T T T T T T T
: To (RI) : To (RI) : To (RI) : Fuse block (J/B) : Illumination control switch : TCS on/off switch (with VDC) : Door mirror remote control switch (with auto drive positioner) (late production) : Door mirror remote control switch (with auto drive positioner) (late production) : Door mirror remote control switch (with auto drive positioner) (late production) : To (E2) : To (B1) : To (B2) : To (B1) : To (B2) : To (B2) : To (B1) : To (B2) : To (B2) : To (B1) : To (B2) : To (B1) : To (B2) : To (B1) : To (B2) : To (M1) : To (M1) : Combination meter : Ignition keyhole illumination : To (M12) : Key switch and key lock solenoid : Combination switch : Spiral cable : Combination switch (spiral cable) : Shift lock control unit (with A71) : In-vehicle sensor	Intake sensor Intake sensor AT device Parking brake switch Air mix door motor (driver) Mode door motor
W/8 W/3 W/3 W/3 W/3 GR/6 W/3 GR/6 W/24 W/16 W/6 W/6 W/6 W/7	W/2 W/16 Y/28 B/1 W/3
SE S	M48 (8) (8) (8) (8) (8) (8) (8) (8) (8) (8
4 E 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	C C C C C C C C C C C C C C C C C C C

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Refer to <u>PG-44, "ENGINE ROOM HARNESS (RH VIEW)"</u> for continuation of engine room harness.

Failure to do so may cause the ECM to have diagnostic trouble codes. Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections. *: Be sure to connect and lock the connectors securely after repair work.

: Front combination lamp LH : Fusible link box (battery) : Fusible link box (battery) : Brake fluid level switch : Front wheel sensor LH : Cornering lamp LH : Front wiper motor : Body ground : Body ground : To (F35) : **To** F33 GR/12 BR/2 GR/2 GR/9 GR/2 GR/2 GR/6 B/2 B/2 * EZZ (EII) (E) (FI) (F) E14 (E21) E23 (AB) F2 D2 E2 8 E E 2

: Horn relay (inside fuse and fusible link box)

: Daytime light relay

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: Crash zone sensor

Y/2

(A)

(E)

: Ambient sensor

: Horn (low)

WKIA3265E

Passenger Compartment Α

diagnostic trouble codes.

Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections. : Accelerator pedal position sensor : Clutch interlock switch (with M/T) *: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have : ASCD clutch switch (with M/T) : ASCD brake switch : Stop lamp switch : Fuse block J/B : Fuse block J/B : Fuse block J/B : Ignition switch : To (B3) : To (M10) : To M91 BR/2 * (E3) W/8 (E3) B/1 (E3) W/4 (E3) W/4 (E3) C/2 (E3) C/2 (E3) C/2 * (E3) C/2 * (E3) C/2 (E3) C E41) W/6 E42) B/2 B/2 (EZ9) E38 * E40 3^{*}(E37 [≀] E40 88 (E38) (E32) E E E34) 8 83 (E33) E42)

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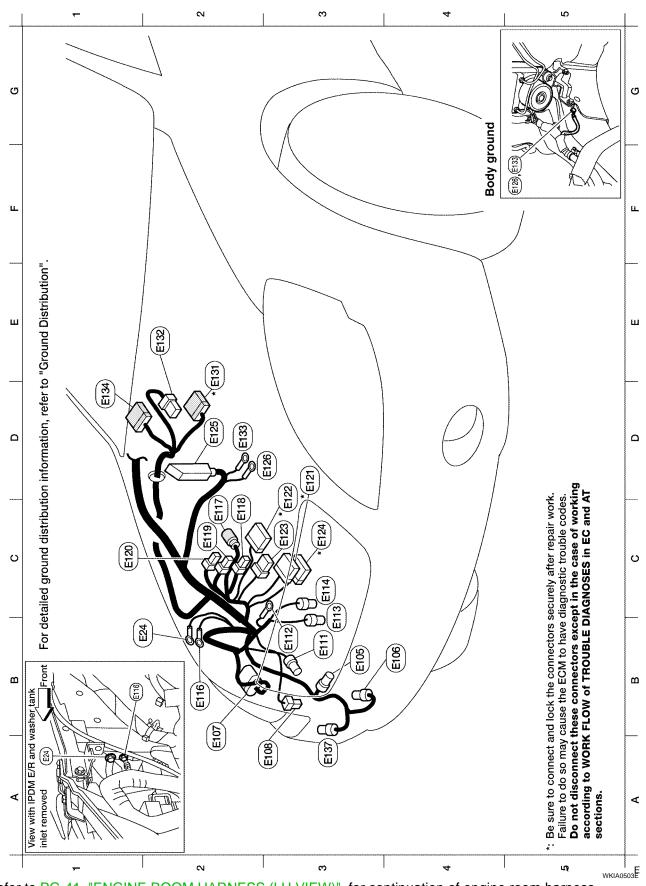
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ENGINE ROOM HARNESS (RH VIEW) Engine Compartment



Refer to PG-41, "ENGINE ROOM HARNESS (LH VIEW)" for continuation of engine room harness.

: Body ground (with VDC)

: To (B104)

8/M

E2

W/10

E131

E2

: Body ground

GR/30

D2

B/46

D2 D3

W/12

 \aleph

9/M

E128 (E128) (E12

ဗ

: Cornering lamp RH

: To (M83)

W/20 GR/2 *: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes. Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

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: IPDM E/R (Intelligent Power Distribution Module Engine Room)

: Front wheel sensor RH

GR/2

: Cooling fan motor-2

: Body ground

Cooling fan motor-1

GR/4 GR/4

B3 C3

: Generator (ground)

: Refrigerant pressure sensor

: Washer fluid level switch : Front combination lamp RH

GR/12

B4

: Horn (high)

B/1 B/3

B3

: Front washer motor

GR/2 BR/2

: Body ground

: IPDM E/R (Intelligent Power Distribution Module Engine Room)

: IPDM E/R (Intelligent Power Distribution Module Engine Room) : IPDM E/R (Intelligent Power Distribution Module Engine Room)

GR/16

E122

D3

W/16

: IPDM E/R (Intelligent Power Distribution Module Engine Room)

W/4

(E13)

B/2

(F120)

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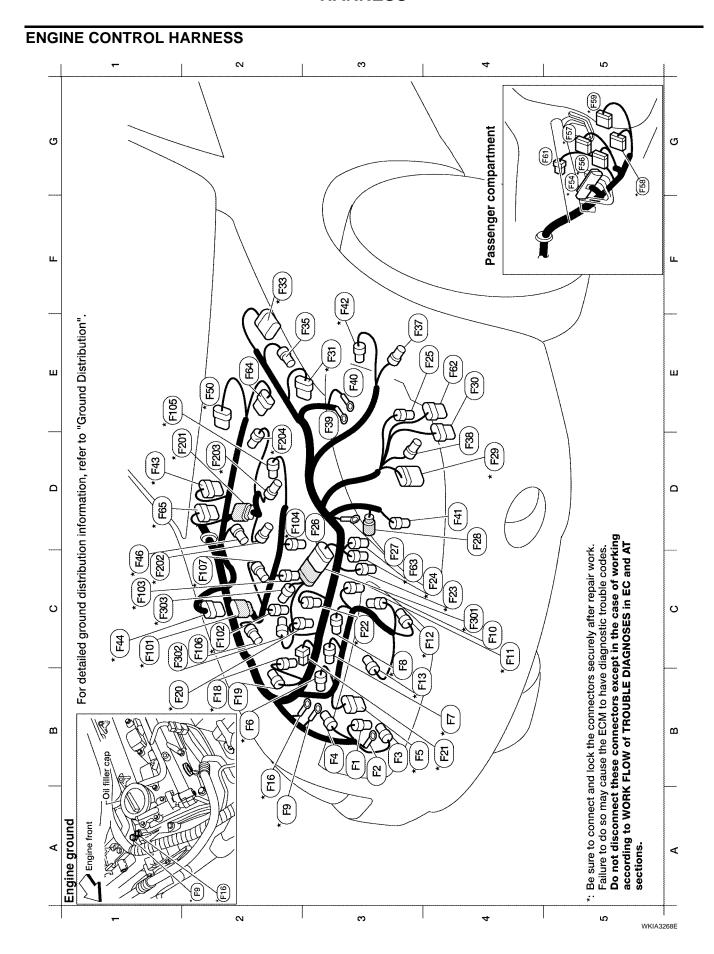
B/4

: IPDM E/R (Intelligent Power Distribution Module Engine Room)

: IPDM E/R (intelligent Power Distribution Module Engine Room)

: ABS actuator and electric unit (control unit) (except with VDC)

: ABS actuator and electric unit (control unit) (with VDC)



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Engine control sub-harness-1	C1 * (F101) G/8 : To (F44)	C2 * (F102) GR/2 : Injector No. 1	* (F103) GR/2 :	*(F104) GR/2 :	E1 * (F105) L/2 : EVAP canister purge volume control solenoid valve	C2 (Fig. B/1 : Oil pressure switch	C2 ★ (Eig) G/2 : Intake valve timing control colonoid valve (Bank 1)	Engine control sub-harness-2	D1 * (£20) G/6 : To (£43)	GB/3		D2 * F203 GR/3 : Ignition coil No. 3	(With power transistor) Object (Apply 1) (With power transistor)	(with power trans		Engine control sub-harness-2	C4 *(E01) GR/6 : To (F26)	C1 (Fig.) B/2 : Knock sensor	C1 * (Face) G/3 : Camshaft position sensor	(רואטב) (שמוא ו					*. Be sure to connect and lock the connectors securely	after repair work. Failure to do so may cause the ECM to have diagnostic from the codes. Do not disconnect these	connectors except in the case of working according	to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.
: Terminal cord assembly	: Mass air flow sensor	: To E19	: To (E22)	: Turbine revolution sensor	: Kevolution sensor	: Fusible IIIR box (battery)	: Fusible min box (battery) : Back-up lamp switch (with M/T)	: Park/neutral position (PNP) switch (with M/T)	: To (F201)	: To (F10)	: Power steering pressure sensor	: Electric throttle control actuator	: ECM	: TCM (transmission control module)	: TCM (transmission control module)	: To (M70)	: To (M71)	: A/T PV IGN Relay	: Terminal cord assembly	: EGR temperature sensor	: EGR volume control valve	: Air fuel ratio (A/F) sensor 1 (Bank 1)				after		to W
BR/8	B/6	GR/9	GR/2	7.5	2	1	- B/2	B/2	9/5	8/9	B/3	GR/6	B/81	GR/20	GR/28	W/16	W/16	7,	GR/6	GR/2	GR/6	B/6						
(F36)	* (F3t)	* (F33)	(E)	(F37	E (£ (¥	* F42	* (F43)	* F44	* F46	* (F50)	* F54	* (F56)	* (F57)	* F58	€	Fed	F62)	* F63	(F64)	* (F65)						
Д	E3	F2	E i	_		3 6	3 2	£	5	ភ	ნ	E2	G5	G5	G5	G5	G5	G 5	E	ខ	E2	5						
: Generator	: Generator	: A/C compressor	: Intake valve timing control solenoid valve (Bank 2)	: Air fuel ratio (A/F) sensor 1 (Bank 2)	: Ignition coil No. 2 (with power	transistor)	: Ignition coil No. 4 (with power transistor)	: Ignition coil No. 6 (with power transistor	: Engine ground	: Front electronic controlled engine	mount	: Crankshaft position sensor (POS)	: Heated oxygen sensor 2 (Bank 2)	: Heated oxygen sensor 2	(Bank 1)	: Engine ground	: Injector No. 2	: VIAS control solenoid valve	: Injector No. 4	: Condenser-2	: Injector No. 6	: Camshaft position sensor (PHASE) (Bank 2)	: Engine coolant temperature sensor	: Rear electronic controlled engine mount (with A/T)	: To F30)	: Starter motor	: Starter motor	: Park/neutral position (PNP) switch (with A/T)
W/2		B/1	GR/2	B/6	GR/3		GR/3	GR/3	i	BR/3	9	B/3	2	G/4			GR/2	B/2	GR/2	GR/2	GR/2	B/3	GR/2	BR/3	GR/6		GR/1	GR/10
Œ	(Z)	(E)	(A)	* F5)	<u>1</u>	* F8	(E)	F10		Ē) (* (F12)	* (F13)		(F16)	F18	(FI)	* F20	* (F21)	(F22)	*	* F24	F25	(F26)	(F27)	(F28	* (F29)
B3	B3	B3	*	* B3	B2 *		¥ *	* ::	B3	2			* ပိ	¥ B3		₽5 *	B2 *	B2	<u>E</u>	B4 *	* ຮ	2	, *	E4	03	ខ	7	7
																												WKIA4258E

BODY HARNESS AND TAIL HARNESS က 2 For detailed ground distribution information, refer to "GROUND DISTRIBUTION". -Rear door striker LH 836 Q Q ည View with rear seatback removed [2] TION **Body ground** ш (B352) **B351** diagnostic trouble codes. Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections. B27 (B26) Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have ш ш B26)† F B39 (BZ9) B16 888 B28 ۵ Ω (BH9) B18 ပ O ି<u>ଛ</u> B17) 8 8 B15 8 View with center pillar garnish LH removed 8 B14) Ω Ω 72 **B**7 둅 B37 <u>8</u> 22 **Body ground** SE SE ⋖ E E **B**20 0 က 5 WKIA3270E

: Trunk lamp switch and trunk release solenoid

: Rear window defogger

B/1

B351

 \overline{F} F2

B352

Rear defogger ground harness

: Body ground

Body harness

. To (M11) W/16 A2 * (B1)

: LH side curtain air bag module

. To (편

W/18

(B3)

B4

: Diode - 5

W/2

(EB)

۲/2

(gg)

D2 23 : Driver seat control unit : Driver seat control unit

W/16

B5

: To (B37)

(E (2) (E)

B4 **A**5

Driver seat sub-harness W/18 W/32

: To (M12) : **To** (E33) W/4 * (B2) (E)

Ą2 **A**2 **A**4 B3 **B**2

: Rear window defogger relay BR/6 (g)

Body ground (g)

Body ground : To (D201) (8) (a)

: Front door switch LH W/3 (88

> **B**4 \aleph

B3

: Air bag diagnosis sensor unit : Front LH side air bag module Y/12 ۲/2 (B) (a)

Front LH seat belt pre-tensioner Υ//2 B14

: Fuel level sensor unit and fuel pump : LH side air bag (satellite) sensor **GR/5** ۲/2 * (B15) B16

B5

8

B5

B3

: License lamp LH : License lamp RH

(1

F4

To (72)

B/2 B/2

(4) (E)

ဗ္ဗ

F4

: To (T3)

W/2

(F)

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W/4

9

: **To** (T102)

W/2 B/2

83

To (T101)

B/2

(2) (2)

. To (B29)

W/4

ដ

Tail harness E

> : Condenser-1 W/2 (B17)

> > SS

Rear door switch LH : Body ground **M** B18 * (B19

 \aleph

: Condenser To (M81) GR/20 **M** B20 (B21) **A**4 20

Subwoofer LH (without BOSE audio system) W/2 B26 ↑ **E**2

Subwoofer LH (with BOSE audio system) (B26)^{††} W/6 **E**2 E3

: Fuel lid opener actuator To (Bil3) : To (H) 8//8 **W**/4 (B27) B28 (B29) 7 7

Rear combination lamp LH 9/M (B35)

: Rear combination lamp RH 9/M B36 : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.

Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

PG

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В

C

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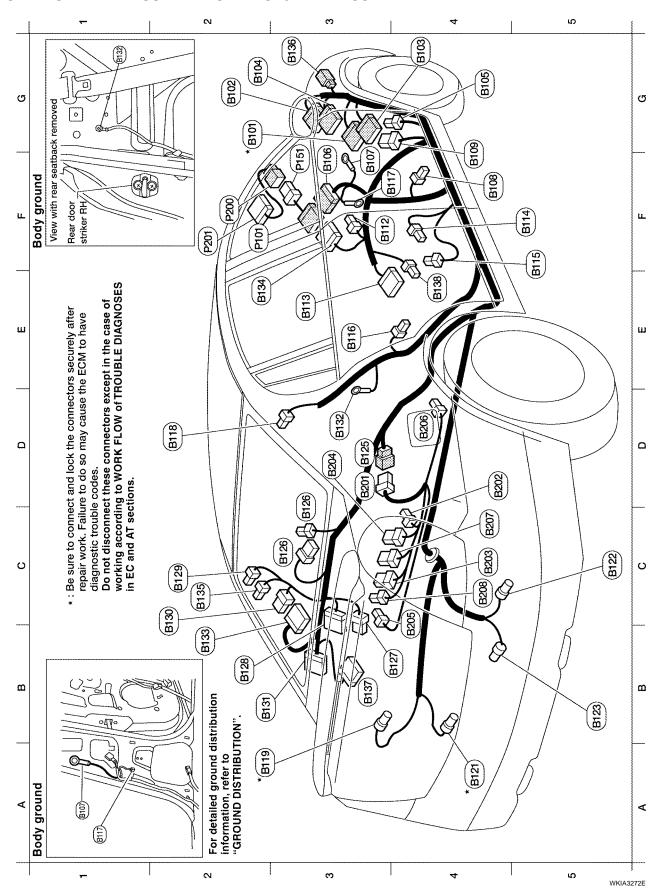
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WKIA4259E

BODY NO. 2 HARNESS AND BODY NO. 3 HARNESS



Body harness No. 2

. To (M84) W/18 g

: To (M85) GR/24

g

: To (M86) W/16

> G2 9 តួ តួ

: To (E132) 8/% 7

: To rear power socket relay

: Body ground **To** W/12 (B107)

: Front door switch RH W/3 B108

: Heated seat relay BR/6

7 T T

: Front RH side air bag module : Air bag diagnosis sensor unit Y/12 Y/2 (B112)

B113

: RH side air bag (satellite) sensor : Front RH seat belt pre-tensioner ۲/2 Y/2 (B115) B114

E3 F5

: Rear door switch RH : Body ground ×

: EVAP control system pressure sensor : RH side curtain air bag module GR/3 **Y**//2 (B118) (B119)

: EVAP canister vent control valve B/2 B121 E3 D2 A2 A4 C5 B5

Rear wheel sensor RH : Rear wheel sensor LH GR/2 72

: **To** (8201) W/10

Subwoofer RH (without BOSE audio system) : Subwoofer RH (with BOSE audio system) BR/6 W/2 8 8 8

BOSE speaker amp. GR/8 B2 B2 C2

: BOSE speaker amp. B/24

: High mounted stop lamp

: Rear sunshade unit

: **To** (B27) **8/**/8 B131

: Body ground (F)

23 **B**2

B2

: Subwoofer amp. (without BOSE audio system) W/10 B133

: **To** (P101) W/16 B134

> E2 C2

: Trunk room lamp

: To (M11) W/10 W/2 (8138) (B136)

> 83 B3

: Satellite radio tuner (pre-wiring) W/16

: Belt tension sensor B/3 B137 B138

: **To** (8134 W/16

F3

: **To** (P200) 8/M P201

53

: Occupant classification system control unit B/18

Body harness No. 3

: To (B125) W/10 (Egg

: Rear power socket B/2 B202 23

7

: Rear heated seat switch LH 9/M

2

: Rear heated seat switch RH BR/6 (BS AS) (8Z8) 2 23

: Rear seat heater LH

W/3

: Rear seat heater RH W/3 (8Z9) **7** 2

: Rear sunshade rear switch 9/M B207

: Rear console lamp W/4 2

: **To** (P151) 8/8 (S) Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.

Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

Α

В

C

D

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F

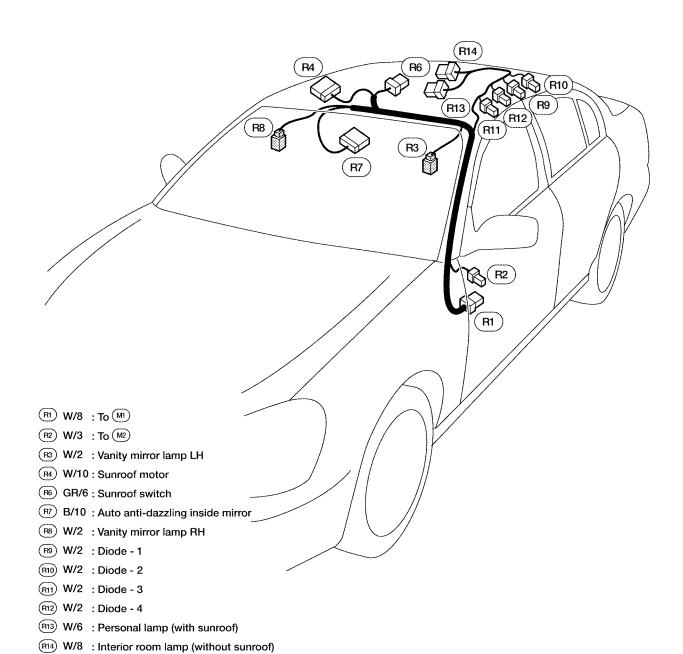
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WKIA3273E

ROOM LAMP HARNESS



WKIA3274E

FRONT DOOR LH HARNESS

D1) W/12 : To (M9) (D2) W/24 : To (M8) : Front door speaker LH (D3) W/2 (without BOSE audio system) (D3) BR/2 : Front door speaker LH (with BOSE audio system (D4) W/16 : Door mirror LH (with auto dimming outside mirrors) **D**4 (D4) W/12 : Door mirror LH (without auto dimming outside mirrors) **D**5 D12 : Seat memory switch (D5) W/8 (D6) W/4 : Trunk and fuel lid opener switch (D7) W/16 : Main power window and door D6 lock/unlock switch D8) W/3 : Main power window and door lock/unlock switch D3 D51 (D9) W/6 : Front power window motor LH (D11 D10) D2 D50 (D10) W/6 : To (D50) (D11) W/2 : Front step lamp LH : Tweeter LH (D12) BR/2

FRONT DOOR RH HARNESS

Front door LH sub-harness

: To (D10)

: Front door lock assembly LH (key cylinder switch)

D50 W/6

(D51) B/6

(D101) W/8 : To (M75) (D102) W/16 : To (M74) (D103) W/2 : Front door speaker RH (without BOSE audio system) (D103) BR/2 : Front door speaker RH (with BOSE audio system) (D104) W/6 : Front power window motor RH (D105) W/16 : Power window and door lock/unlock switch RH (D106) W/2 : To (D150) (D107) W/16 : Door mirror RH (with auto dimming outside mirrors) (D107) W/12 : Door mirror RH (without auto dimming outside mirrors) (D109) W/2 : Front step lamp RH (D107 (D112) BR/2 : Tweeter RH D102 Front door RH sub-harness (D112) (D105) (D150) W/2 : To (D106) (D151) W/6 : Front door lock actuator RH

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D103

(D101)

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WKIA3275F

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WKIA3276E

(D151

(D106)

(D150)

REAR DOOR LH HARNESS

(D201) W/12 : To (B6)

(D202) BR/2 : Rear door speaker LH (with BOSE audio system)

(D202) W/2 : Rear door speaker LH (without BOSE audio system)

(D233) W/8 : Rear power window switch LH (with left and right

front power window anti-pinch system)

(2233)^{††} W/16 : Rear power window switch LH (with 4-door power

window anti-pinch system)

(D204) GR/2 : Rear power window motor LH (with left and right

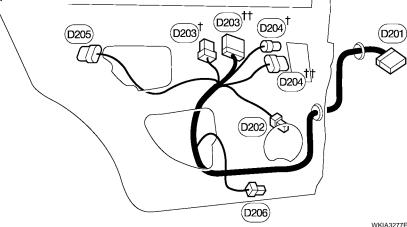
front window anti-pinch system)

(D204) †† GR/6 : Rear power window motor LH (with 4-door power

window anti-pinch system)

(D205) B/6 : Rear door lock actuator LH

(D206) W/2 : Rear step lamp LH



REAR DOOR RH HARNESS

©301) W/12 : To (B106)

©302 W/2 : Rear door speaker RH (without BOSE audio system)

(5302) BR/2: Rear door speaker RH (with BOSE audio system)

6333 W/8: Rear power window switch RH (with left and right

front power window anti-pinch system)

(333)^{††}W/16: Rear power window switch RH (with 4-door power

window anti-pinch system)

6334 GR/2: Rear power window motor RH (with left and right

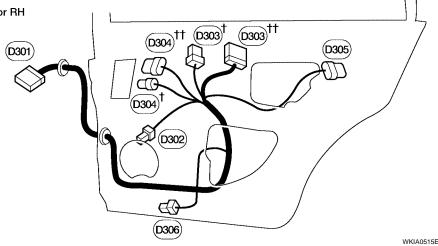
front window anti-pinch system)

(334)^{††}GR/6: Rear power window motor RH (with 4-door power

window anti-pinch system)

(5305) B/6: Rear door lock actuator RH

0306 W/2 : Rear step lamp RH



Wiring Diagram Codes (Cell Codes)

EKS009IA

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Use the chart below to find out what each wiring diagram code stands for.

Refer to the wiring diagram code in the alphabetical index to find the location (page number) of each wiring diagram.

Code	Section	Wiring Diagram Name
1STSIG	AT	A/T 1st Signal
2NDSIG	AT	A/T 2nd Signal
3RDSIG	AT	A/T 3rd Signal
4THSIG	AT	A/T 4th Signal
5THSIG	AT	A/T 5th Signal
A/C,A	ATC	Auto Air Conditioner
AF1B1	EC	Air Fuel Ratio Sensor 1 Bank 1
AF1B2	EC	Air Fuel Ratio Sensor 1 Bank 2
AF1HB1	EC	Air Fuel Ratio Sensor 1 Heater Bank 1
AF1HB2	EC	Air Fuel Ratio Sensor 1 Heater Bank 2
AUTO/L	LT	Auto Light Control
ABS	BRC	Anti-Lock Brake System
APPS1	EC	Accelerator Pedal Position Sensor
APPS2	EC	Accelerator Pedal Position Sensor
APPS3	EC	Accelerator Pedal Position Sensor
ASCBOF	EC	ASCD Brake Switch
ASC/BS	EC	ASCD Brake Switch
ASCIND	EC	ASCD Indicator
ASC/SW	EC	ASCD Steering Switch
AT/IND	DI	A/T Indicator Lamp
AUDIO	AV	Audio
AUT/DP	SE	Automatic Drive Positioner
BACK/L	LT	Back-up Lamp
BRK/SW	EC	Brake Switch
CAN	AT	CAN Communication Line
CAN	EC	CAN Communication Line
CAN	LAN	CAN System
CHARGE	SC	Charging System
CHIME	DI	Warning Chime
COOL/F	EC	Cooling Fan Control
COMBSW	LT	Combination Switch
COMM	AV	Audio Visual Communication System
COMPAS	DI	Compass
CORNER	LT	Cornering Lamps
D/LOCK	BL	Power Door Lock
DEF	GW	Rear Window Defogger
DTRL	LT	Headlamp - With Daytime Light System
ECM/PW	EC	ECM Power Supply for Back-Up
ECTS	EC	Engine Coolant Temperature Sensor
EGRC1	EC	EGR Function
EGR/TS	EC	EGR Temperature Sensor
EGVC/V	EC	EGR Volume Control Valve
EMNT	EC	Engine Mount
ETC1	EC	Electric Throttle Control Function
ETC2	EC	Throttle Control Motor Relay
ETC3	EC	Throttle Control Motor
F/FOG	LT	Front Fog Lamp

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PG

FireDim	E/DUMD	1 50	I Foot Brown
FTSP	F/PUMP	EC	Fuel Pump
FTTS EC Fuel Tank Temperature Sensor FUELB1 EC Fuel Injection System Bank 1 FUELB2 EC Fuel Injection System Bank 2 HUAMP LT Headdimp HORN WW Horn HSTAT SE Heated Seat H/STRG PS Heated Secring Wheel ILL LT Illumination and Integrated Switch System INCE2 EC Injector INCE2 EC Injector INCE3 EC			
FUELB1 EC Fuel Injection System Bank 1 FUELD2 EC Puel Injection System Bank 2 HULAMP LT Headadamp HORN WW Horn HSEAT SE Heated Seart HYSTRG PS Heated Steering Wheel IAMIR GW Inside Mirror (Auto Anti-Dazzling Mirror) IATS EC Intake Air Temperature Sensor IGNSYS EC Inginition System ILL LT Illumination INFD AV Vehicle Information and Integrated Switch System INCB1 EC Injector IVCB1 EC Injector IVCB1 EC Injector IVCB1 EC Intake Valve Timing Control Solenoid Valve Bank 1 IVCB2 EC Intake System Timing Control Solenoid Valve Bank 2			· · · · · · · · · · · · · · · · · · ·
FUELB2			·
HLAMP			
HORN			
HSEAT			· · · · · · · · · · · · · · · · · · ·
H/STRG			
IMBRR			
IATS			9
ICH LT Illumination ILL LT Illumination ILL LT Illumination ILL LT Illumination Illumination Illumination Illumination Illumination Image: Imag			
ILL			· · · · · · · · · · · · · · · · · · ·
INFID	IGNSYS	EC	Ignition System
INJECT	ILL	LT	Illumination
IVCB1	INF/D	AV	Vehicle Information and Integrated Switch System
Intake Valve Timing Control Solenoid Valve Bank 2	INJECT	EC	Injector
KEYLES BL Remote Keyless Entry System KS EC Knock Sensor MAFS EC Mass Air Flow Sensor MAIN EC Main Power Supply and Ground Circuit METER DI Speedometer, Tachometer, Temp., Oil and Fuel Gauges MIL/DL EC Malfunction Indicator Lamp MIRROR GW Door Mirror MMSW AT Manual Mode Switch NATS BL Nissan Anti-Theft System NAVI AY Navigation System O2H2B1 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1 O2H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Bank 1 O2S2B1 EC Heated Oxygen Sensor 2 (Rear) Bank 1 O2S2B2 EC Heated Oxygen Sensor 2 (Rear) Bank 2 PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/C AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve Failure PC/CS AT Pressure Contr	IVCB1	EC	Intake Valve Timing Control Solenoid Valve Bank 1
KS EC Knock Sensor MAFS EC Mass Air Flow Sensor MAIN EC Main Power Supply and Ground Circuit METER DI Speedometer, Tachometer, Temp., Oil and Fuel Gauges MILDL EC Maifunction Indicator Lamp MIRROR GW Door Mirror MMSW AT Manual Mode Switch NATS BL Nissan Anti-Theft System NAVI AV Navigation System 02H2B1 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1 02H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Bank 1 02H2B2 EC Heated Oxygen Sensor 2 (Rear) Bank 2 02S2B1 EC Heated Oxygen Sensor 2 (Rear) Bank 2 PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/C AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve Failure PGC/V EC EVAP Canister P	IVCB2	EC	Intake Valve Timing Control Solenoid Valve Bank 2
MAFS EC Mass Air Flow Sensor MAIN EC Main Power Supply and Ground Circuit METER DI Speedometer, Tachometer, Temp., Oil and Fuel Gauges MIL/DL EC Malfunction Indicator Lamp MIRROR GW Door Mirror MMSW AT Manual Mode Switch NATS BL Nissan Anti-Theft System NAVI AV Navigation System O2H2B1 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1 O2H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2 O252B1 EC Heated Oxygen Sensor 2 (Rear) Heater Bank 2 O252B2 EC Heated Oxygen Sensor 2 (Rear) Heater Bank 2 O252B2 EC Heated Oxygen Sensor 2 (Rear) Heater Bank 2 PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/C AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve Failure P	KEYLES	BL	Remote Keyless Entry System
MAIN EC Main Power Supply and Ground Circuit METER DI Speedometer, Tachometer, Temp., Oil and Fuel Gauges MIL/DL EC Malfunction Indicator Lamp MIRROR GW Door Mirror MIRROR GW Door Mirror MMSW AT Manual Mode Switch NATS BL Nissan Anti-Theft System NAVI AV Navigation System O2H2B1 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1 O2H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2 O252B1 EC Heated Oxygen Sensor 2 (Rear) Bank 1 O252B2 EC Heated Oxygen Sensor 2 (Rear) Bank 1 O252B2 EC Heated Oxygen Sensor 2 (Rear) Bank 1 PC/A AT Line Pressure Solenoid Valve PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/CS AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve Failure PC/CS AT <td>KS</td> <td>EC</td> <td>Knock Sensor</td>	KS	EC	Knock Sensor
METER DI Speedometer, Tachometer, Temp., Oil and Fuel Gauges MIL/DL EC Malfunction Indicator Lamp MIRROR GW Door Mirror MMSW AT Manual Mode Switch NATS BL Nissan Anti-Theft System NAVI AV Navigation System 02H2B1 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1 02H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2 02S2B1 EC Heated Oxygen Sensor 2 (Rear) Bank 1 02S2B2 EC Heated Oxygen Sensor 2 (Rear) Bank 2 PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/C AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve Failure PGC/V EC EVAP Canister Purge Volume Control Solenoid Valve PGC/V EC EVAP Canister Purge Volume Control Solenoid Valve PHSB1 EC Camshaft Position Sensor (PHASE) (Bank 1) PHSB2 EC Camshaft Position Sensor (PHASE) (Bank	MAFS	EC	Mass Air Flow Sensor
MIL/DL EC Malfunction Indicator Lamp MIRROR GW Door Mirror MMSW AT Manual Mode Switch NATS BL Nissan Anti-Theft System NAVI AV Navigation System 02H2B1 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1 02H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Bank 2 02S2B1 EC Heated Oxygen Sensor 2 (Rear) Bank 2 02S2B2 EC Heated Oxygen Sensor 2 (Rear) Bank 2 PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/C AT Pressure Control Solenoid Valve PC/C AT Pressure Control Solenoid Valve PC/C AT Pressure Control Solenoid Valve Failure PC/CS AT Pressure Control Solenoid Valve Failure PC/C	MAIN	EC	Main Power Supply and Ground Circuit
MIRROR GW Door Mirror MMSW AT Manual Mode Switch NATS BL Nissan Anti-Theft System NAVI AV Navigation System 02H2B1 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1 02H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2 02S2B1 EC Heated Oxygen Sensor 2 (Rear) Bank 1 02S2B2 EC Heated Oxygen Sensor 2 (Rear) Bank 2 PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/CB AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve Failure PGC/V EC EVAP Canister Purge Volume Control Solenoid Valve PHSB1 EC Camshaft Position Sensor (PHASE) (Bank 1) PHSB2 EC Camshaft Position Sensor (PHASE) (Bank 2) PNP/SW AT Park/Neutral Position Switch PNP/SW EC Park/Neutral Position Switch POWER PG Power Supply Routing PR/SE <td>METER</td> <td>DI</td> <td>Speedometer, Tachometer, Temp., Oil and Fuel Gauges</td>	METER	DI	Speedometer, Tachometer, Temp., Oil and Fuel Gauges
MMSW AT Manual Mode Switch NATS BL Nissan Anti-Theft System NAVI AV Navigation System 02H2B1 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1 02H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2 02S2B1 EC Heated Oxygen Sensor 2 (Rear) Bank 1 02S2B2 EC Heated Oxygen Sensor 2 (Rear) Bank 2 PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/B AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve Failure PGC/V EC EVAP Canister Purge Volume Control Solenoid Valve PHSB1 EC Camshaft Position Sensor (PHASE) (Bank 1) PHSB2 EC Camshaft Position Sensor (PHASE) (Bank 2) PNP/SW AT Park/Neutral Position Sensor (PHASE) (Bank 2) PNP/SW AT Park/Neutral Position Sensor	MIL/DL	EC	Malfunction Indicator Lamp
NATS BL Nissan Anti-Theft System NAVI AV Navigation System O2H2B1 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1 O2H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2 O2S2B1 EC Heated Oxygen Sensor 2 (Rear) Bank 1 O2S2B2 EC Heated Oxygen Sensor 2 (Rear) Bank 1 O2S2B2 EC Heated Oxygen Sensor 2 (Rear) Bank 2 PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/C AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve Failure PGC/V EC EVAP Canister Purge Volume Control Solenoid Valve PHSB1 EC Camshaft Position Sensor (PHASE) (Bank 1) PHSB2 EC Camshaft Position Sensor (PHASE) (Bank 2) PNP/SW AT Park/Neutral Position Switch PNP/SW EC Park/Neutral Position Switch POS EC Crankshaft Position Sensor (CKPS) (POS) POWER PG Power Supply Routing PRE/SE EC EVAP Control System Pressure Sensor P/SCKT WW Power Socket PS/SEN EC Power Steering Oil Pressure Sensor PWR/IN AT TCM Ignition Power ROOML LT Interior Room Lamp RP/SEN EC Refrigerant Pressure Sensor S/SIG EC Start Signal SEAT SE Power Seat	MIRROR	GW	Door Mirror
NAVI AV Navigation System 02H2B1 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1 02H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2 02S2B1 EC Heated Oxygen Sensor 2 (Rear) Bank 1 02S2B2 EC Heated Oxygen Sensor 2 (Rear) Bank 2 PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/C AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve Failure PGC/V EC EVAP Canister Purge Volume Control Solenoid Valve PHSB1 EC Camshaft Position Sensor (PHASE) (Bank 1) PHSB2 EC Camshaft Position Sensor (PHASE) (Bank 2) PNP/SW AT Park/Neutral Position Switch PNP/SW AT Park/Neutral Position Switch POS EC Park/Neutral Position Sensor (CKPS) (POS) POWER PG Power Supply Routing PRE/SE EC EVAP Control System Pressure Sensor P/SCKT WW Power Socket PS/SEN EC Power Steering Oil Pressure Sensor PWR/IN AT TCM Ignition Power ROOM/L LT Interior Room Lamp RP/	MMSW	AT	Manual Mode Switch
NAVI AV Navigation System 02H2B1 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1 02H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2 02S2B1 EC Heated Oxygen Sensor 2 (Rear) Bank 1 02S2B2 EC Heated Oxygen Sensor 2 (Rear) Bank 2 PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/C AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve Failure PGC/V EC EVAP Canister Purge Volume Control Solenoid Valve PHSB1 EC Camshaft Position Sensor (PHASE) (Bank 1) PHSB2 EC Camshaft Position Sensor (PHASE) (Bank 2) PNP/SW AT Park/Neutral Position Switch PNP/SW AT Park/Neutral Position Switch POS EC Park/Neutral Position Sensor (CKPS) (POS) POWER PG Power Supply Routing PRE/SE EC EVAP Control System Pressure Sensor P/SCKT WW Power Socket PS/SEN EC Power Steering Oil Pressure Sensor PWR/IN AT TCM Ignition Power ROOM/L LT Interior Room Lamp RP/	NATS	BL	Nissan Anti-Theft System
O2H2B1 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1 O2H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2 O2S2B1 EC Heated Oxygen Sensor 2 (Rear) Bank 1 O2S2B2 EC Heated Oxygen Sensor 2 (Rear) Bank 2 PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/C AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve Failure PGC/V EC EVAP Canister Purge Volume Control Solenoid Valve PHSB1 EC Camshaft Position Sensor (PHASE) (Bank 1) PHSB2 EC Camshaft Position Sensor (PHASE) (Bank 2) PNP/SW AT Park/Neutral Position Sensor (PHASE) (Bank 2) PNP/SW EC Park/Neutral Position Switch PNP/SW EC Park/Neutral Position Sensor (CKPS) (POS) POWER PG Power Supply Routing PR/SE EC EVAP Control System Pressure Sensor PS/SEN EC EVAP Control System Pressure Sensor PWR/IN AT </td <td>NAVI</td> <td>AV</td> <td></td>	NAVI	AV	
O2H2B2 EC Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2 O2S2B1 EC Heated Oxygen Sensor 2 (Rear) Bank 1 O2S2B2 EC Heated Oxygen Sensor 2 (Rear) Bank 2 PC/A AT Line Pressure Solenoid Valve PC/B AT Shift Pressure Solenoid Valve PC/C AT Pressure Control Solenoid Valve PC/CS AT Pressure Control Solenoid Valve Failure PGC/V EC EVAP Canister Purge Volume Control Solenoid Valve PHSB1 EC Camshaft Position Sensor (PHASE) (Bank 1) PHSB2 EC Camshaft Position Sensor (PHASE) (Bank 2) PNP/SW AT Park/Neutral Position Switch PNP/SW AT Park/Neutral Position Switch POS EC Crankshaft Position Sensor (CKPS) (POS) POWER PG Power Supply Routing PRE/SE EC EVAP Control System Pressure Sensor P/SCKT WW Power Socket PS/SEN EC Power Steering Oil Pressure Sensor PWR/IN AT TCM Ignition Power ROOM/L LT Interior Room Lamp	O2H2B1	EC	Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1
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RP/SEN EC Refrigerant Pressure Sensor S/SIG EC Start Signal SEAT SE Power Seat			
S/SIG EC Start Signal SEAT SE Power Seat			<u> </u>
SEAT SE Power Seat			-
			-
SEN/PW EC Sensor Power Supply			
	SEN/PW	EC	Sensor Power Supply

SFTFNC	AT	Unusual Shifting
SHADE	El	Rear Sunshade
SHIFT	AT	A/T Shift Lock System
SROOF	RF	Sunroof
SRS	SRS	Supplemental Restraint System
SSV/A	AT	Shift Solenoid Valve A
SSV/B	AT	Shift Solenoid Valve B
SSV/C	AT	Shift Solenoid Valve C
SSV/CS	AT	Shift Solenoid Valve C Failure
SSV/D	AT	Shift Solenoid Valve D
SSV/E	AT	Shift Solenoid Valve E
START	SC	Starting System
STOP/L	LT	Stop Lamp
TLID	BL	Trunk Lid Opener
TAIL/L	LT	Parking, License and Tail Lamps
TCCSIG	AT	A/T TCC Signal (Lock Up)
TCS	BRC	Traction Control System
TPS1	EC	Throttle Position Sensor
TPS2	EC	Throttle Position Sensor
TPS3	EC	Throttle Position Sensor
TRNSCV	BL	HOMELINK® Universal Transceiver
TRSC	AT	Turbine Revolution Sensor
TURN	LT	Turn Signal and Hazard Warning Lamps
VDC	BRC	Vehicle Dynamic Control System
VEHSEC	BL	Vehicle Security System
VENT/V	EC	EVAP Canister Vent Control Valve
VIAS	EC	Variable Air Induction Control System
VIAS/V	EC	Variable Air Induction Control System Valve
VSSATC	AT	Revolution Sensor
W/ANT	AV	Audio Antenna
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIPER	WW	Front Wiper and Washer

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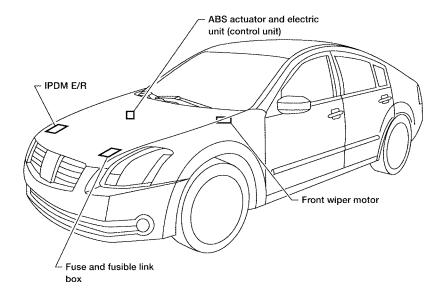
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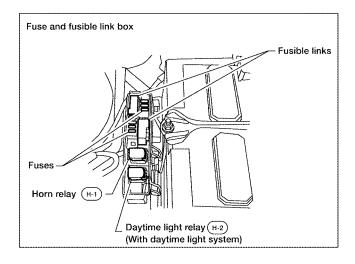
ELECTRICAL UNITS LOCATION

PFP:25230

EKS009IB

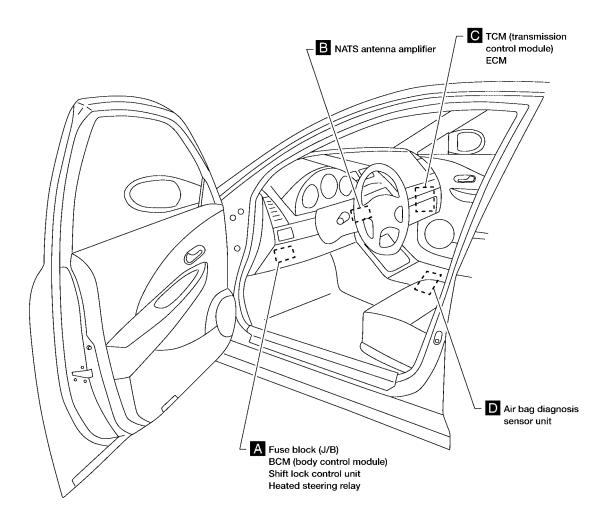
Electrical Units Location ENGINE COMPARTMENT



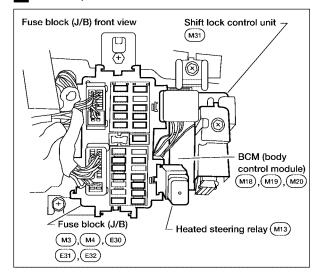


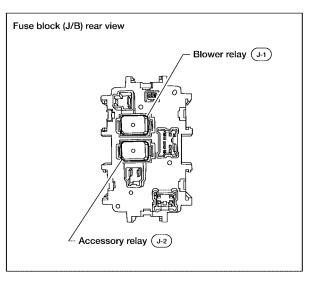
WKIA4273E

PASSENGER COMPARTMENT



A Instrument panel side LH





WKIA3221E

Revision: July 2005 PG-59 2005 Maxima

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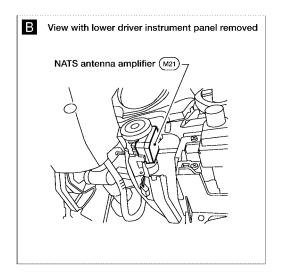
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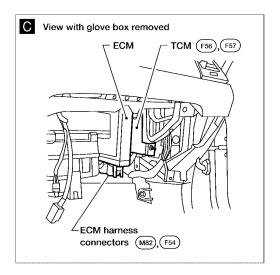
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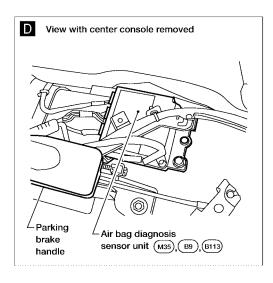
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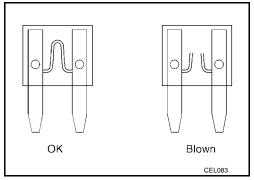


WKIA0476E

Fuse

• If fuse is blown, be sure to eliminate cause of incident before installing new fuse.

- Use fuse of specified rating. Never use fuse of more than specified rating.
- Do not partially install fuse; always insert it into fuse holder properly.
- Remove fuse for "ELECTRICAL PARTS (BAT)" if vehicle is not used for a long period of time.



Fusible Link

A melted fusible link can be detected either by visual inspection or by feeling with finger tip. If its condition is questionable, use circuit tester or test lamp.

CAUTION:

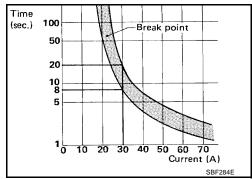
- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of incident.
- Never wrap outside of fusible link with vinyl tape.
- Never let fusible link touch any other wiring harness, vinyl or rubber parts.

Circuit Breaker (Built Into BCM)

For example, when current is 30A, the circuit is broken within 8 to 20 seconds.

A circuit breaker is used for the following systems:

- Power seat
- Power windows
- Power door locks
- Remote keyless entry system



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HARNESS CONNECTOR

HARNESS CONNECTOR

PFP:B4341

DescriptionHARNESS CONNECTOR (TAB-LOCKING TYPE)

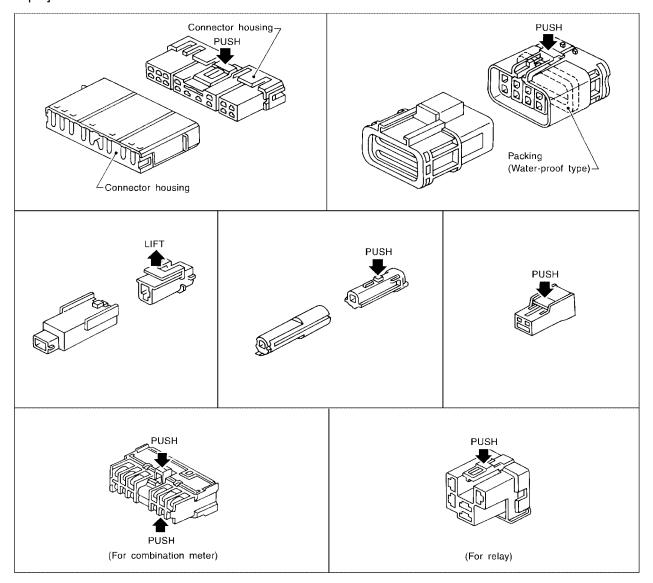
EKS009IF

- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

Refer to the next page for description of the slide-locking type connector.

CAUTION:

Do not pull the harness or wires when disconnecting the connector. [Example]



SEL769DA

HARNESS CONNECTOR

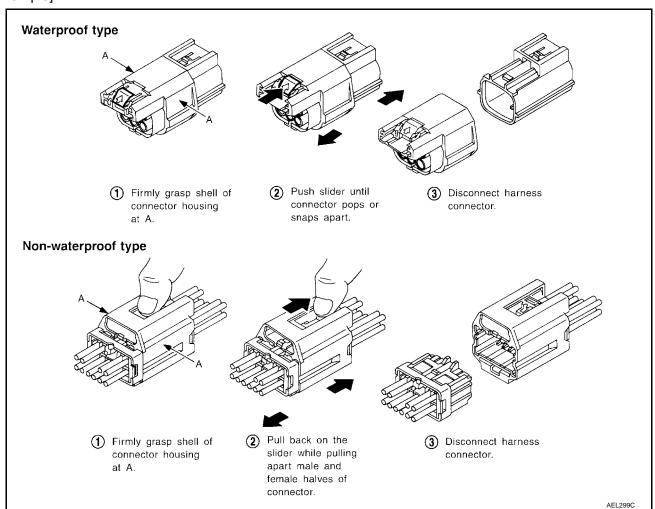
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- A new style slide-locking type connector is used on certain systems and components, especially those related to OBD.
- The slide-locking type connectors help prevent incomplete locking and accidental looseness or disconnection.
- The slide-locking type connectors are disconnected by pushing or pulling the slider. Refer to the illustration below.

CAUTION:

- Do not pull the harness or wires when disconnecting the connector.
- Be careful not to damage the connector support bracket when disconnecting the connector.

[Example]



HARNESS CONNECTOR (DIRECT-CONNECT SRS COMPONENT TYPE)

- SRS direct-connect type harness connectors are used on certain SRS components such as air bag modules and seat belt pre-tensioners.
- Always pull up to release black locking tab prior to removing connector from SRS component.
- Always push down to lock black locking tab after installing connector to SRS component. When locked, the black locking tab is level with the connector housing.

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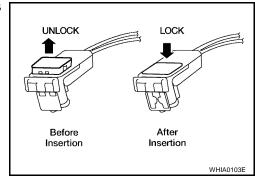
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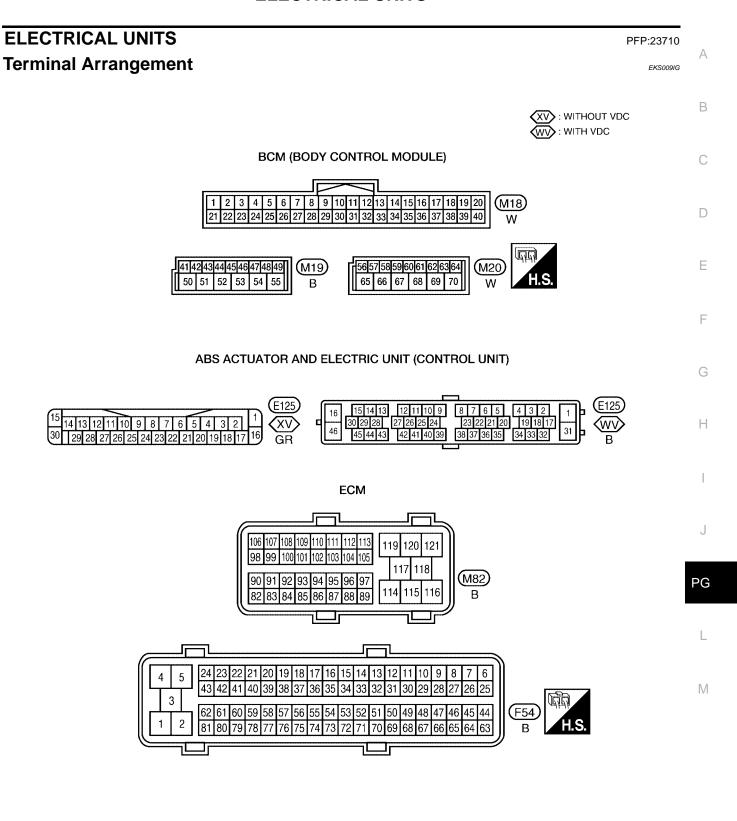
HARNESS CONNECTOR

CAUTION:

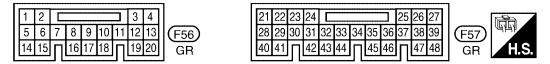
• Do not pull the harness or wires when removing connectors from SRS components.



ELECTRICAL UNITS



TCM (TRANSMISSION CONTROL MODULE)



WKIA4261E

STANDARDIZED RELAY

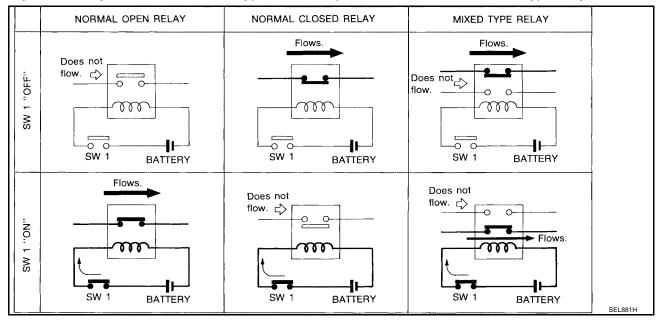
STANDARDIZED RELAY

PFP:25230

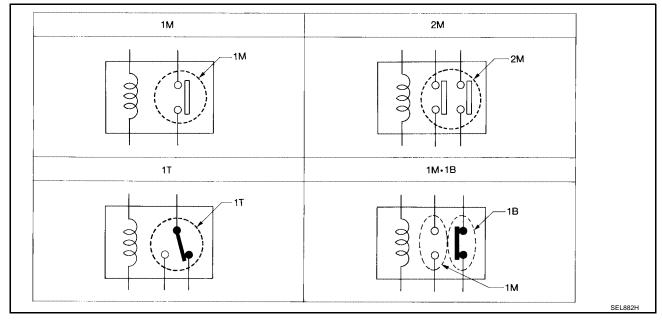
DescriptionNORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

EKS009IH

Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



TYPE OF STANDARDIZED RELAYS



1M	1 Make	2M	2 Make
1T	1 Transfer	1M-1B	1 Make 1 Break

STANDARDIZED RELAY

Туре	Outer view	Circuit	Connector Symbol and connection	Case color
1T	5 2 4	1	5 2 4 1	BLACK
2M		1 6 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BROWN
1M -1B	6 3	1 6 3	2 1 6 7 3 4	GRAY
111	2 1	2 3 3 1 3	2 3 1	BLACK
1M	2	1 6	3 5 2 1	BLUE

The arrangement of terminal numbers on the actual relays may differ from those shown above.

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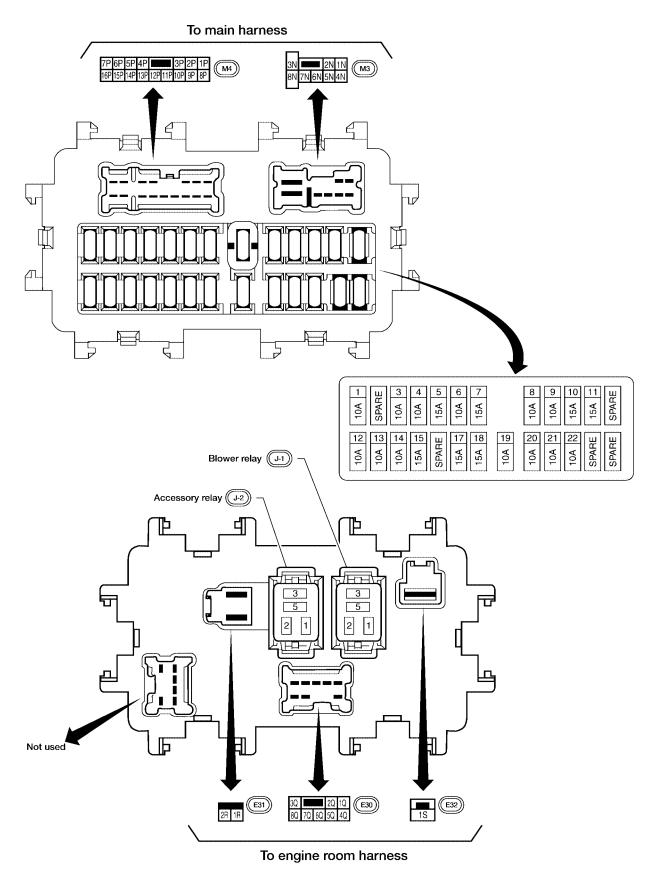
FUSE BLOCK-JUNCTION BOX(J/B)

FUSE BLOCK-JUNCTION BOX(J/B)

PFP:24350

Terminal Arrangement

EKS009II



WKIA3222E

FUSE AND FUSIBLE LINK BOX

FUSE AND FUSIBLE LINK BOX

Front

PFP:24381

E6

Terminal Arrangement

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50A 30A 30A 15A 15A 10A 10A 40A 3 5 1 3 1 × 2 m (H-1) (H-2) k 28 29 30 31 50A 40A 40A 40A 15A 10A 20A 24 - 31: FUSE f - m: FUSIBLE LINK

24 25 26 27

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FUSE AND FUSIBLE LINK BOX